Allegion plc

Annual Report Financial year ended 31 December 2017

ALLEGION PLC

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DIRECTORS' REPORT

Directors' report for the year ended 31 December 2017

The directors present their report and audited Consolidated Financial Statements for the fiscal year ended 31 December 2017.

Principal Activities

Allegion plc ("Allegion," "we," "us", "the Group" or "the Company"), through its subsidiaries, is a leading global provider of security products and solutions that keep people safe, secure and productive. We make the world safer as a company of experts, securing the places where people thrive and we create peace of mind by pioneering safety and security. We offer an extensive and versatile portfolio of mechanical and electronic security products across a range of market-leading brands. Our experts across the globe deliver high-quality security products, services and systems and we use our deep expertise to serve as trusted partners to end-users who seek customized solutions to their security needs.

We sell a wide range of security products and solutions for end-users in commercial, institutional and residential facilities worldwide, including into the education, healthcare, government, hospitality, commercial office and single and multi-family residential markets. Our corporate brands are CISA, Interflex, LCN, Schlage, SimonsVoss, and Von Duprin. We believe LCN, Schlage and Von Duprin hold the No. 1 position in their primary product categories in North America and CISA, Interflex and SimonsVoss hold the No.1 or No. 2 position in their primary product categories in certain European markets.

For the year ended 31 December 2017, we generated turnover of \$2,408.2 million and operating profit of \$487.5 million. For the year ended 31 December 2016, we generated turnover of \$2,238.0 million and operating profit of \$423.5 million.

History and Developments

Allegion plc was incorporated in Ireland on 9 May 2013, to hold the commercial and residential security businesses of Ingersoll Rand plc ("Ingersoll Rand"). On 1 December 2013, Allegion became a stand-alone public company after Ingersoll Rand completed the separation of these businesses from the rest of Ingersoll Rand via the transfer of these businesses from Ingersoll Rand to Allegion and the issuance by Allegion of ordinary shares directly to Ingersoll Rand's shareholders (the "Spin-off"). Our security businesses have long and distinguished operating histories. Several of our brands were established more than 75 years ago and many of our brands originally created their categories:

- Von Duprin, established in 1908, was awarded the first exit device patent;
- Schlage, established in 1920, was awarded the first patents granted for the cylindrical lock and the push button lock;
- LCN, established in 1926, created the first door closure;
- CISA, established in 1926, devised the first electronically controlled lock; and
- SimonsVoss, established in 1995, created the first keyless digital transponder.

We have built upon these founding legacies since our entry into the security products market through the acquisition of Schlage, Von Duprin and LCN in 1974. Today, we continue to develop and introduce innovative and market-leading products. Recent examples of successful product launches are illustrated in the table below:

Product	Brands	Year	Innovation
Residential Locks and Levers	Schlage Touch, Connect, Sense, Control, SEL, Custom	2015/2016/ 2017	New single and multi-family residential electronic locking platforms that provide for keyless entry (Touch), connected locking (Connect), integration with the Internet of Things (IoT) and Apple HomeKit, Amazon Alexa, Google Assistant and Android platforms (Sense), multi-family interconnected locking (Control), 4-in-1 locks, fingerprint sensors, and smart card or code access (SEL).
Custom			A new range with universal functionality (Custom) allows homeowners to change from a doorknob to a lever and convert a non- locking door to lockable in minutes.
Commercial Locks and Electronic Access	Schlage, CISA, SimonsVoss	2015/2016/ 2017	Access control platforms and proximity readers and smart credentials upgraded for improved strength and durability (Schlage). Comprehensive offerings featuring mechanical, wired electrified and wireless electronic solutions for common aesthetic and consistent user experience throughout a building. Wireless locks able to be managed with ENGAGE TM web and mobile apps or with our Software Alliance Member (SAM) systems (Schlage LE and NDE).
Platforms			Multipoint locking line (CISA) designed for high security European applications, correcting for heat distortion. MobileKey (SimonsVoss) provides facility managers highly secure and sophisticated access control with mobile phone technology.
	I CN Driter	2015/2016/	Cast Aluminum Series closers (LCN) were specially designed to deliver consistent, dependable and long-term performance.
Closers	LCN, Briton, CISA, ITO Kilit	2015/2016/ 2017	New closers (Briton, CISA, ITO Kilit) significantly expanded the European standard portfolio in 2017, offering affordable quality and specialty applications.
Exit Devices	Von Duprin, CISA	2016/2017	Concealed vertical cables (Von Duprin) give doors aesthetics, strength and security in an exit device system that is easy to install and maintain.
			e-Fast motorized push bars (CISA) now include lighting features.
Bike Lighting and Portable Locking Solutions	AXA, Kryptonite, Trelock	2017	Innovation in bike safety and security from each of our Global Portable Security brands (AXA, Kryptonite and Trelock), ranging from compact dynamo lights and e-bike lights to USB and battery powered lights, as well as new lines of folding locks, integrated chains and electronic ring locks and mobile applications for bikes and motorcycles.

Review of Business Segments

We manufacture and sell mechanical and electronic security products and solutions in approximately 130 countries. Approximately 96% of our 2017 turnover was to customers in the North America, Western Europe and the Asia-Pacific regions.

We operate in and report financial results for three segments: Americas, EMEIA, and Asia Pacific. These segments represent the level at which our chief operating decision maker reviews Group financial performance and makes operating decisions.

Segment operating profit is the measure of profit and loss that our chief operating decision maker uses to evaluate the financial performance of the business and as the basis for resource allocation, performance reviews, and compensation. For these reasons, we believe that segment operating profit represents the most relevant measure of segment profit and loss. Our chief operating decision maker may exclude certain charges or gains, such as corporate charges and other special charges, from operating profit to arrive at a segment operating profit that is a more meaningful measure of profit and loss upon which to base our operating decisions. We define segment operating margin as segment operating profit as a percentage of turnover.

The segment discussions that follow describe the significant factors contributing to the changes in results for each segment included in operations. Our business segments are as follows:

Americas

Our Americas segment is a leading provider of security products and solutions in approximately 30 countries throughout North America, Central America, the Caribbean and South America. The segment sells a broad range of products and solutions including, locks, locksets, portable locks, key systems, door closers, exit devices, doors and door systems, electronic product and access control systems to end-users in commercial, institutional and residential facilities, including into the education, healthcare, government, commercial office and single and multi-family residential markets. This segment's primary brands are Schlage, Von Duprin and LCN.

Segment results for the years ended 31 December were as follows:

In millions (\$)	2017	2016	% change
Turnover	1,767.5	1,645.7	7.4%
Segment operating profit	503.3	448.1	12.3%
Segment operating margin	28.5%	27.2%	

Turnover for the year ended 31 December 2017 increased by 7.4% or \$121.8 million compared to the same period in 2016 due to the following:

Pricing	2.0%
Volume	3.8%
Acquisitions	1.4%
Currency exchange rates	0.2%
Total	7.4%

The increase in turnover was due to higher volumes, improved pricing, the impact of an acquisition in January 2017, and favorable foreign currency exchange rate movements. Turnover from non-residential products for the year ended 31 December 2017 increased high single digits compared to the same period in the prior year due to market growth, product launches and channel initiatives. Turnover from residential products for the year ended 31 December 2017 increased mid-single digits compared to the same period in the prior year due to market growth, product launches and channel initiatives. Turnover from residential products for the year ended 31 December 2017 increased mid-single digits compared to the same period in the prior year primarily due to domestic market growth.

Segment operating profit for the year ended 31 December 2017 increased \$55.2 million and segment operating margin increased to 28.5% from 27.2% compared to the same period in 2016 due to the following:

In millions (\$)	Operating profit	Operating margin
31 December 2016	448.1	27.2 %
Pricing and productivity in excess of inflation	29.3	1.2 %
Volume / Product mix	22.2	0.3 %
Currency exchange rates	2.6	0.1 %
Investment spending	(10.7)	(0.6)%
Acquisitions	0.3	(0.4)%
Environmental remediation charge	15.0	0.9 %
Restructuring / acquisition costs	(3.5)	(0.2)%
31 December 2017	503.3	28.5 %

Segment operating profit increased primarily due to pricing improvements and productivity in excess of inflation, favorable volume/product mix, favorable foreign currency exchange rate movements, lower environmental remediation charges in the current year due to a charge in the prior year for a change in approach for environmental remediation related to two sites in the U.S., and the impact of acquisitions. These increases were partially offset by increased investment spending primarily for new product development and channel development and restructuring and acquisition costs.

Segment operating margin increased primarily due to pricing improvements and productivity in excess of inflation, favorable volume/product mix, favorable foreign currency exchange rate movements, and lower environmental remediation charges in the current year due to a charge in the prior year for a change in approach for environmental remediation related to two sites in the U.S. These increases were partially offset by increased investment spending primarily for new product development and channel development, restructuring and acquisition costs, and the impact of acquisitions.

EMEIA

Our EMEIA segment provides security products and solutions in approximately 85 countries throughout Europe, the Middle East, India and Africa. The segment offers end-users a broad range of products, services and solutions including, locks, locksets, portable locks, key systems, door closers, exit devices, doors and door systems, electronic product and access control systems, as well as time and attendance and workforce productivity solutions. This segment's primary brands are AXA, Bricard, CISA, Interflex and SimonsVoss. This segment also resells Schlage, Von Duprin and LCN products, primarily in the Middle East.

Segment results for the years ended 31 December were as follows:

In millions (\$)	2017	2016	% change
Turnover	523.5	485.9	7.7%
Segment operating profit	45.2	35.9	25.9%
Segment operating margin	8.6%	7.4%	

Turnover for the year ended 31 December 2017 increased by 7.7% or \$37.6 million compared to the same period in 2016 due to the following:

Pricing	1.6%
Volume	3.1%
Acquisitions	1.6%
Currency exchange rates	1.4%
Total	7.7%

The increase in turnover was due to higher volumes, improved pricing, the impact of an acquisition made in the prior year, and favorable foreign currency exchange rate movements.

Segment operating profit for the year ended 31 December 2017 increased \$9.3 million and operating margin increased to 8.6% from 7.4% compared to the same period in 2016 due to the following:

In millions (\$)	Operating profit	Operating margin
31 December 2016	35.9	7.4 %
Pricing and productivity in excess of inflation	5.1	0.9 %
Volume / Product mix	5.2	0.8 %
Currency exchange rates	1.3	0.1 %
Investment spending	(2.4)	(0.5)%
Acquisitions	(0.9)	(0.3)%
Restructuring / acquisition costs	1.0	0.2 %
31 December 2017	45.2	8.6 %

The increases were primarily due to pricing improvements and productivity in excess of inflation, improvements in volume/ product mix, favorable foreign currency exchange rate movements, and year-over-year change in restructuring and acquisition costs. These increases were partially offset by increased investment spending and the impact from an acquisition in the prior year.

Asia Pacific

Our Asia Pacific segment provides security products and solutions in approximately 15 countries throughout the Asia Pacific region. The segment offers end-users a broad range of products, services and solutions including, locks, locksets, portable locks, key systems, door closers, exit devices, electronic product and access control systems. This segment's primary brands are Milre, Schlage, Legge, Brio and FSH.

Segment results for the years ended 31 December were as follows:

In millions (\$)	2017	2016	% change
Turnover	117.2	106.4	10.2%
Segment operating profit	9.5	6.1	55.7%
Segment operating margin	8.1%	5.7%	

Turnover for the year ended 31 December 2017 increased by 10.2%, or \$10.8 million compared to the same period in 2016, due to the following:

Pricing	0.4%
Volume	7.3%
Acquisitions	0.7%
Currency exchange rates	1.8%
Total	10.2%

The increase in turnover was due to higher volumes, improved pricing, the impact of an acquisition made in the prior year, and favorable foreign currency exchange rate movements.

Segment operating profit for the year ended 31 December 2017 increased \$3.4 million and segment operating margin increased to 8.1% from 5.7% compared with the same period in 2016 due to the following:

In millions (\$)	Operating profit	Operating margin
31 December 2016	6.1	5.7 %
Pricing and productivity in excess of inflation	1.5	1.3 %
Volume / Product mix	2.0	1.3 %
Currency exchange rates	0.4	0.3 %
Investment spending	(0.4)	(0.4)%
Acquisitions	(0.1)	(0.1)%
31 December 2017	9.5	8.1 %

The increases were primarily related to pricing improvements and productivity in excess of inflation, improved volume/product mix, and favorable foreign currency exchange rate movements. These increases were partially offset by increased investment spending and the impact of an acquisition in the prior year.

Trends and Economic Events

We believe that the security products industry is growing and will continue to benefit from several global macroeconomic and long-term demographic trends, including:

- stabilization of construction markets in key North American markets;
- the convergence of mechanical and electronic security products;
- heightened awareness of security requirements;
- increased global urbanization; and
- the shift to a digital, interconnected environment.

We believe the security products industry will also benefit from continued growth in institutional, commercial, and residential end-markets. We also expect growth in the global electronic product categories we serve to outperform the security products industry as end-users adopt newer technologies in their facilities.

The economic conditions discussed above and a number of other challenges and uncertainties that could affect our business are described under "Principal Risks."

Group Key Performance Indicators

Turnover

Turnover for the year ended 31 December 2017 increased by 7.6%, or \$170.2 million compared to the same period in 2016 due to the following:

Pricing	1.8%
Volume	3.9%
Acquisitions	1.4%
Currency exchange rates	0.5%
Total	7.6%

The increase in turnover was primarily driven by higher volumes and improved pricing in all segments, incremental turnover from the acquisitions discussed on page 27, and favorable foreign currency exchange rate movements relative to the US Dollar.

Costs of sales

For the year ended 31 December 2017, cost of sales as a percentage of turnover decreased to 55.5% from 56.0% due to the following:

Pricing and productivity in excess of inflation	(0.5)%
Volume/product mix	0.4 %
Acquisitions	0.5 %
Currency exchange rates	(0.1)%
Environmental remediation charge	(0.7)%
Restructuring / acquisition costs	(0.1)%
Total	(0.5)%

Costs of sales as a percentage of turnover for the year ended 31 December 2017 decreased primarily due to pricing and productivity benefits in excess of inflation, favorable foreign currency exchange rate movements, a decrease related to an environmental remediation charge in the prior year, and decreased restructuring costs. These decreases were offset by unfavorable product mix and volume and the impact of acquisitions.

Distribution costs and administrative expenses

For the year ended 31 December 2017, distribution costs and administrative expenses as a percentage of turnover decreased to 24.2% from 25.0% due to the following:

Productivity in excess of inflation	(0.7)%
Volume leverage	(0.9)%
Acquisitions	(0.2)%
Investment spending	0.7 %
Restructuring / acquisition costs	0.3 %
Total	(0.8)%

Distribution costs and administrative expenses as a percentage of turnover for the year ended 31 December 2017 decreased primarily due to favorable leverage due to increased volume, productivity benefits in excess of inflation, and acquisitions. These decreases were partially offset due to increased investment spending and higher restructuring and acquisition costs.

Operating profit

Operating profit (excluding other operating expenses, discussed below in Note 4 to the Consolidated Financial Statements) for the year ended 31 December 2017 increased \$62.7 million from the same period in 2016 and operating margin increased to 20.3% from 19.0% for the same period in 2016 due to the following:

In millions (\$)	Operating profit	Operating margin
31 December 2016	425.5	19.0 %
Pricing and productivity in excess of inflation	35.0	1.2 %
Volume/product mix	29.4	0.5 %
Currency exchange rates	4.3	0.1 %
Investment spending	(15.3)	(0.7)%
Acquisitions	(0.6)	(0.3)%
Environmental remediation charge	15.0	0.7 %
Restructuring / acquisition costs	(5.1)	(0.2)%
31 December 2017	488.2	20.3 %

Operating profit and operating margin both increased due to favorable volume/product mix in all of our segments, pricing improvements and productivity in excess of inflation, favorable foreign currency exchange rate movements, and lower environmental remediation charges in the current year due to a charge in the prior year for a change in approach for environmental remediation related to two sites in the Americas. These increases were partially offset by investment spending and the impact of acquisitions and higher restructuring and acquisition costs.

Interest payable and similar charges

Interest payable and similar charges for the year ended 31 December 2017 increased \$41.4 million compared to the same period in 2016, primarily due to \$44.7 million of costs associated with the refinancing of our Credit Facilities, issuance of our new 3.200% and 3.550% Senior Notes, and redemption of our previously outstanding Senior Notes due 2021 and 2023.

Loss on divestitures

During the year ended 31 December 2015 we entered into an agreement to sell a majority stake in our systems integration business in China and recorded a pre-tax charge of \$78.1 million (\$82.4 million after tax charges) to write the carrying value of the assets and liabilities down to their estimated fair value less costs to complete the transaction. During the year ended 31 December 2016 we recorded an additional after tax charge of \$84.4 million to further write-down the carrying value of consideration receivable related to this divestiture.

Provision for taxation

On December 22, 2017, the President of the United States signed comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Reform Act"). The Tax Reform Act makes broad and complex changes to the U.S. tax code which will impact our year ended 31 December 2017 including, but not limited to (1) reducing the U.S. federal corporate tax rate, (2) requiring a one-time transition tax on certain unrepatriated earnings of non-U.S. subsidiaries that may electively be paid over eight years, and (3) requiring a review of the future realizability of deferred tax balances.

For the year ended 31 December 2017, our effective tax rate was 30.1% compared to 21.6% for the year ended 31 December 2016. The effective income tax rate for the year ended 31 December 2017 was negatively impacted by a \$53.5 million tax charge related to the Tax Reform Act, which was partially offset by the release of \$10.4 million of valuation allowances. The effective income tax rate for the year ended 31 December 2016 was negatively impacted by \$84.4 million (before and after tax) of charges related to the divestiture of our systems integration business in China during 2015.

See Note 11 to the Consolidated Financial Statements for further discussion of tax matters.

Competitive Conditions

The security products markets are highly competitive and fragmented throughout the world, with a number of large multinational companies and thousands of smaller regional and local companies. This high fragmentation primarily reflects local regulatory requirements and highly variable end-user needs. We believe our principal global competitors are Assa Abloy AB and dorma+kaba Group. We also face competition in various markets and product categories throughout the world, including from Spectrum Brands Holdings, Inc. in the North American residential market. As we move into more technologically-advanced product categories, we may also compete against new, more specialized competitors.

Customers

We sell most of our products and solutions through distribution and retail channels, ranging from specialty distribution to wholesalers. We have built a network of channel partners that help our customers choose the right solution to meet their security needs and help commercial and institutional end-users fulfill and install orders. We also sell through a variety of retail channels, ranging from large do-it-yourself home improvement centers to small, specialty showroom outlets. We work with our retail partners on developing marketing and merchandising strategies to maximize their sales per square foot of shelf space. Through our Interflex business and Global Portable Security brands, we also provide products and solutions directly to end-users.

Our 10 largest customers represented approximately 25% of our total turnover in 2017. No single customer represented 10% or more of our total turnover in 2017.

Sales and Marketing

In markets where we sell through commercial and institutional distribution channels, we employ sales professionals around the world who work with a combination of end-users, security professionals, architects, contractors, engineers and distribution partners to develop specific custom-configured solutions for our end-users' needs. Our field sales professionals are assisted by specification writers who work with architects, engineers and consultants to help design door openings and security systems to meet end-users' functional, aesthetic and regulatory requirements. Both groups are supported by dedicated customer care and technical sales-support specialists worldwide. We also support our sales efforts with a variety of marketing efforts, including trade-specific advertising, cooperative distributor merchandising, digital marketing, and marketing at a variety of industry trade shows.

In markets in which we sell through retail and home-builder distribution channels, we have teams of sales, merchandising and marketing professionals who help drive brand and product awareness through our channel partners and to consumers. We utilize a variety of advertising and marketing strategies, including traditional consumer media, retail merchandising, digital marketing, retail promotions, and builder and consumer trade shows, to support these teams.

We also work actively with several industry bodies around the world to help promote effective and consistent safety and security standards. For example, we are members of Builders Hardware Manufacturers Association (BHMA), Security Industry Association, Smart Card Alliance, American Society of Healthcare Engineering, American Institute of Architects, Construction Specification Institute, ASSOFERMA (Italy), BHE (Germany) and UNIQ (France). We also have established the Safety and Security Institute in China, which helps to educate government officials, architects and builders and advocates for consistent building codes and standards that address end-users' safety and security.

Production and Distribution

We manufacture our products in our geographic markets around the world. We operate 32 production and assembly facilities, including 15 in the Americas region, 12 in EMEIA and 5 in Asia Pacific. We own 15 of these facilities and lease the others. Our strategy is to produce in the region of use, wherever appropriate, to allow us to be closer to the end-user and increase efficiency and timely product delivery. Much of our United States (U.S.) based residential portfolio is manufactured in the Baja Region of Mexico under a NAFTA Maquiladora.

In managing our network of production facilities, we focus on eliminating excess capacity, reducing cycle time through productivity, and harmonizing production practices and safety procedures.

We distribute our products through a broad network of channel partners. In addition, third-party logistics providers perform storage and distribution services for us to support certain parts of our distribution network.

Raw Materials

We support our region-of-use production strategy with corresponding region-of-use supplier partners, where available. Our global and regional commodity teams work with production leadership, product management and materials management teams to ensure adequate materials are available for production.

We purchase a wide range of raw materials, including steel, zinc, brass and other non-ferrous metals, to support our production facilities. Where appropriate, we may enter into fixed-cost contracts to lower overall costs.

Seasonality

Our business experiences seasonality that varies by product line. Because more construction and do-it-yourself projects occur during the second and third calendar quarters of each year in the Northern Hemisphere, our security product sales, typically, are higher in those quarters than in the first and fourth calendar quarters. However, our Interflex business typically experiences higher sales in the fourth calendar quarter due to project timing. Turnover by quarter for the years ended 31 December 2017 and 2016 are as follows:

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
2017	23%	26%	25%	26%
2016	22%	26%	26%	26%

Research and Development

We are committed to investing in highly productive research and development capabilities, particularly in electro-mechanical systems. Our research and development ("R&D") expenditures were approximately \$48.3 million and \$47.3 million for the years ended 31 December 2017 and 2016, respectively.

We concentrate on developing technology innovations that will deliver growth through the introduction of new products and solutions, and also on driving continuous improvements in product cost, quality, safety and sustainability.

We manage our R&D team as a global group with an emphasis on a global collaborative approach to identify and develop new technologies and worldwide product platforms. We are organized on a regional basis to leverage expertise in local standards and configurations. In addition to regional engineering centers in each geographic region, we also operate a global engineering center of excellence in Bangalore, India.

Intellectual Property

Intellectual property, inclusive of certain patents, trademarks, copyrights, know-how, trade secrets and other proprietary rights, is important to our business. We create, protect and enforce our intellectual property investments in a variety of ways. We work actively in the U.S. and internationally to try to ensure the protection and enforcement of our intellectual property rights. We use trademarks on nearly all of our products and believe that such distinctive marks are an important factor in creating a market for our goods, in identifying us and in distinguishing our products from others. We consider our Schlage, Von Duprin, LCN, CISA, SimonsVoss, Interflex and other associated trademarks to be among our most valuable assets, and we have registered these trademarks in a number of countries. Although certain proprietary intellectual property rights are important to our success, we do not believe we are materially dependent on any particular patent or license, or any particular group of patents or licenses.

Facilities

We operate through a broad network of sales offices, engineering centers, 32 production facilities and several distribution centers throughout the world. Our active properties represent approximately 7.0 million square feet, of which approximately 47% is leased.

Liquidity and Capital Resources

Sources and uses of liquidity

Our primary source of liquidity is net cash provided by operating activities. Net cash provided by operating activities is used to invest in new product development, fund capital expenditures and fund working capital requirements and is expected to be adequate to service any future debt, pay any declared dividends and potentially fund acquisitions and share repurchases. Our ability to fund these capital needs depends on our ongoing ability to generate cash provided by operating activities, and to access our borrowing facilities (including unused availability under our Revolving Facility) and capital markets. We believe that our future cash provided by operating activities, availability under our Revolving Facility and access to funds on hand and capital markets, will provide adequate resources to fund our operating and financing needs.

The following table reflects the major categories of cash flows for the years ended 31 December. For additional details, please see the Consolidated Statements of Cash Flows.

In millions (\$)	2017	2016
Net cash provided by operating activities	347.2	377.5
Net cash used in investing activities	(50.2)	(64.0)
Net cash used in financing activities	(150.9)	(196.0)

Operating activities

Net cash provided by operating activities for the year ended 31 December 2017 decreased \$30.3 million compared to the same period in 2016. Operating cash flows for 2017 reflect a discretionary \$50.0 million contribution to the U.S. qualified defined benefit pension plan and increased cash paid for taxes, which were partially offset by higher profits compared to the same period in the prior year.

Investing activities

Net cash used in investing activities for the year ended 31 December 2017 decreased \$13.8 million compared to the same period in the prior year. The decrease in net cash used in investing activities is primarily due to \$15.6 million in proceeds from the sale of an equity investment during 2017 that did not occur in the prior year and a \$10.6 million decrease of cash payments related to acquisitions. These changes were partially offset by \$14.1 million of cash received from the sale of marketable securities in 2016 that did not recur in the current year.

Financing activities

Net cash used in financing activities for the year ended 31 December 2017 decreased \$45.1 million compared to the same period in the prior year. The decrease in cash used in financing activities is due to net proceeds from debt issuances over debt repayments of \$10.1 million in 2017 versus net debt repayments of \$64.4 million during 2016. Current year debt financing activity includes the redemption of the 2021 and 2023 Senior Notes for a total of \$600.0 million and the settlement of the previously outstanding Term Loan A Facility of \$856.3 million, offset by the issuance of the 3.200% and 3.550% Senior Notes in an aggregate amount of \$800.0 million and a new term loan facility maturing on September 12, 2022 (the "Term Facility") in the amount of \$700.0 million. Additionally, during the year ended 31 December 2017, we repurchased \$60.0 million of common shares, compared to \$85.1 million during 2016. We also made dividend payments to ordinary shareholders of \$60.9 million during the current year, compared to \$46.0 million in 2016.

Capitalization

Borrowings at 31 December consisted of the following:

In millions (\$)	2017	2016
Term Loan A Facility		879.8
Term Facility	691.3	
Revolving Facility		
5.750% Senior Notes due 2021	_	300.0
5.875% Senior Notes due 2023		300.0
3.200% Senior Notes due 2024	400.0	
3.550% Senior Notes due 2027	400.0	
Other debt	1.0	2.3
Total borrowings outstanding	1,492.3	1,482.1
Less discounts and debt issuance costs, net	(15.0)	(18.3)
Total debt	1,477.3	1,463.8
Less current portion of long term debt	35.0	48.2
Total long-term debt	1,442.3	1,415.6

As of 31 December 2017, we have a Credit Agreement in place that provides for up to \$1,200.0 million in unsecured financing, consisting of a \$700.0 million term loan facility (the "Term Facility") and a \$500.0 million revolving credit facility (the "Revolving Facility" and, together with the Term Facility, the "Credit Facilities"). The Credit Facilities mature on 12 September 2022. The Term Facility amortizes in quarterly installments at the following rates: 1.25% per quarter starting 31 December 2017 through 31 December 2020, 2.5% per quarter from 31 March 2021 through 30 June 2022, with the balance due on 12 September 2022. The Revolving Facility provides aggregate commitments of up to \$500.0 million, which includes up to \$100.0 million for the issuance of letters of credit. At 31 December 2017, there were no borrowings outstanding on the Revolving Facility, and we had \$17.4 million of letters of credit outstanding.

Outstanding borrowings under the Credit Facilities accrue interest, at our option of (i) a LIBOR rate plus the applicable margin or (ii) a base rate plus the applicable margin. The applicable margin ranges from 1.125% to 1.500% depending on our credit ratings. To manage our exposure to fluctuations in LIBOR rates, we have interest rate swaps to fix the interest rate for \$250.0 million of the outstanding borrowings (see Note 26).

As of 31 December 2017, we also have \$400.0 million outstanding of 3.200% Senior Notes due 2024 (the "3.200% Senior Notes") and \$400.0 million outstanding of 3.550% Senior Notes due 2027 (the "3.550% Senior Notes" and, together with the 3.200% Senior Notes, the "Notes"), both of which were issued on 2 October 2017. The Notes require semi-annual interest payments on 1 April and 1 October of each year, and will mature on 1 October 2024 and 1 October 2027, respectively.

Historically, the majority of our earnings were considered to be permanently reinvested in jurisdictions where we have made, and intend to continue to make, substantial investments to support the ongoing development and growth of our global operations. As a result of the Tax Reform Act transition tax, we are currently analyzing our global working capital requirements and the potential tax liabilities that would be incurred if certain non-U.S. subsidiaries made distributions, which include local country withholding tax and potential U.S. state taxation. We are not yet able to reasonably estimate the effect of this provision of the Tax Reform Act and have not recorded any withholding or state tax liabilities or any deferred taxes attributable to our investment in our non-U.S. subsidiaries.

At 31 December 2017, we had cash at bank and in hand of \$466.2 million. Approximately 34% of our cash at bank and in hand were located outside the U.S.

Pension Plans

Our investment objective in managing defined benefit plan assets is to ensure that all present and future benefit obligations are met as they come due. We seek to achieve this goal while trying to mitigate volatility in plan funded status, contribution and expense by better matching the characteristics of the plan assets to that of the plan liabilities. Global asset allocation decisions are based on a dynamic approach whereby a plan's allocation to fixed income assets increases as the funded status increases. We monitor plan funded status and asset allocation regularly in addition to investment manager performance.

We monitor the impact of market conditions on our defined benefit plans on a regular basis. In January 2017, we made a discretionary \$50.0 million contribution to the U.S. qualified defined benefit pension plan. At 31 December 2017, the funded status of our qualified pension plan for U.S. employees increased to 93.3% from 73.6% at 31 December 2016, primarily as a result of this discretionary contribution. The funded status for our non-U.S. pension plans increased to 100.5% at 31 December 2017 from 92.9% at 31 December 2016. Funded status for all of our pension plans at 31 December 2017 increased to 95.5% from 83.3% at 31 December 2016. For further details on pension plan activity, see Note 27 to the Consolidated Financial Statements.

Contractual Obligations

The following table summarizes our contractual cash obligations by required payment periods, in millions (\$):

	2018	2019-2020	2021-2022	Thereafter	Total
Long-term debt (including current maturities)	35.0	70.0	586.3	801.0	1,492.3
Interest payments on long-term debt	46.7	90.5	82.5	89.9	309.6
Purchase obligations	169.5		—		169.5
Operating leases	20.5	30.9	12.0	13.3	76.7
Total contractual cash obligations	271.7	191.4	680.8	904.2	2,048.1

Future expected obligations under our pension and postretirement benefit plans, income taxes, environmental and product liability matters have not been included in the contractual cash obligations table above.

Pensions

At 31 December 2017, we had net pension liabilities of \$32.2 million, which consist of plan assets of \$681.6 million and benefit obligations of \$713.8 million. It is our objective to contribute to the pension plans to ensure adequate funds are available in the plans to make benefit payments to plan participants and beneficiaries when required. The funded status for all of our pension plans increased to 95.5% at 31 December 2017 from 83.3% at 31 December 2016. We currently project that an additional approximately \$13.5 million will be contributed to our plans worldwide in 2018. Because the timing and amounts of long-term funding requirements for pension obligations are uncertain, they have been excluded from the preceding table. See Note 27 to the Consolidated Financial Statements for additional information.

Postretirement Benefits Other than Pensions

At 31 December 2017, we had postretirement benefit obligations of \$9.3 million. We fund postretirement benefit costs principally on a pay-as-you-go basis as medical costs are incurred by covered retiree populations. Benefit payments, which are net of expected plan participant contributions and Medicare Part D subsidy, are expected to be approximately \$0.9 million in 2018. Because the timing and amounts of long-term funding requirements for postretirement obligations are uncertain, they have been excluded from the preceding table. See Note 27 to the Consolidated Financial Statements for additional information.

Income Taxes

At 31 December 2017, we have total unrecognized tax benefits for uncertain tax positions of \$29.0 million and \$4.9 million of related accrued interest and penalties, net of tax. The liability has been excluded from the preceding table as we are unable to reasonably estimate the amount and period in which these liabilities might be paid. See Note 11 to the Consolidated Financial Statements for additional information regarding matters relating to income taxes, including unrecognized tax benefits and tax authority disputes.

Contingent Liabilities

We are involved in various litigation, claims and administrative proceedings, including those related to environmental, asbestosrelated, and product liability matters. We believe that these liabilities are subject to the uncertainties inherent in estimating future costs for contingent liabilities, and will likely be resolved over an extended period of time. Because the timing and amounts of potential future cash flows are uncertain, they have been excluded from the preceding table. See Note 30 to the Consolidated Financial Statements for additional information.

Critical Accounting Policies

The Group prepares its Consolidated Financial Statements in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP"). This requires management to make estimates and assumptions that affect reported amounts and related disclosures. Actual results could differ from those estimates. The following policies are considered by management to be the most critical in understanding the judgments that are involved in the preparation of the Group's Consolidated Financial Statements and the uncertainties that could impact the Group's results of operations, financial position and cash flows. These Consolidated Financial Statements were prepared in accordance with Irish Company Law, to present to shareholders and file with the Companies Registration Office in Ireland. Accordingly, these Consolidated Financial Statements include presentation and disclosures required by Ireland's Companies Act 2014 in addition to those disclosures required under U.S. GAAP.

Goodwill

We have significant goodwill on our balance sheet related to acquisitions. Our goodwill is tested annually during the fourth quarter for impairment or when there is a significant change in events or circumstances that indicate that the fair value of an asset is more likely than not less than the carrying amount of the asset.

Recoverability of goodwill is measured at the reporting unit level and starts with a comparison of the carrying amount of the reporting unit to its estimated fair value. If the estimated fair value of a reporting unit exceeds its carrying amount, goodwill of the reporting unit is not impaired. To the extent that the carrying value of the reporting unit exceeds its estimated fair value, a goodwill impairment charge will be recognized for the amount by which the carrying value of the reporting unit exceeds its fair value, not to exceed the carrying amount of goodwill.

As quoted market prices are not available for our reporting units, the calculation of their estimated fair value is based on two valuation techniques, a discounted cash flow model (income approach) and a market adjusted multiple of earnings and turnover (market approach), with each method being weighted in the calculation. The income approach relies on the Company's estimates of future cash flows and explicitly addresses factors such as timing, growth and margins, with due consideration given to forecasting risk. The market approach reflects the market's expectations for future growth and risk, with adjustments to account for differences between the guideline publicly-traded companies and the subject reporting units.

The estimated fair values for each of our reporting units exceeded their carrying values by more than 15% for the 2017 goodwill impairment test. Additionally, a 1% increase in the discount rate used or a 1% decrease in the terminal growth rate would not result in the carrying value of any reporting unit exceeding its estimated fair value.

Assessing the fair value of our reporting units includes, among other things, making key assumptions for estimating future cash flows and appropriate market multiples. These assumptions are subject to a high degree of judgment and complexity. We make every effort to estimate future cash flows as accurately as possible with the information available at the time the forecast is developed. However, changes in assumptions and estimates may affect the estimated fair value of the reporting unit, and could result in impairment charges in future periods. Factors that have the potential to create variances in the estimated fair value of the reporting unit include but are not limited to the following:

- Decreases in estimated market sizes or market growth rates due to greater-than-expected declines in volumes, pricing pressures or disruptive technology;
- Declines in our market share and penetration assumptions due to increased competition or an inability to develop or launch new products;
- The impacts of the market volatility, including greater-than-expected declines in pricing, reductions in volumes, or fluctuations in foreign exchange rates;
- The level of success of on-going and future research and development efforts, including those related to recent acquisitions, and increases in the research and development costs necessary to obtain regulatory approvals and launch new products;
- · Increase in the price or decrease in the availability of key commodities and the impact of higher energy prices; and
- Increases in our market-participant risk-adjusted weighted-average cost of capital.

Management uses external valuation specialists to assist in determining the fair value of the reporting units.

Income taxes

We account for income taxes in accordance with U.S. GAAP. Deferred tax assets and liabilities are determined based on temporary differences between financial reporting and tax bases of assets and liabilities, applying enacted tax rates expected to be in effect for the year in which the differences are expected to reverse. We recognize future tax benefits, such as net operating losses and non-U.S. tax credits, to the extent that realizing these benefits is considered in our judgment to be more likely than not. We regularly review the recoverability of our deferred tax assets considering our historic profitability, projected future taxable income, timing of the reversals of existing temporary differences and the feasibility of our tax planning strategies. Where appropriate, we record a valuation allowance with respect to a future tax benefit.

The tax on profit on ordinary activities involves a significant amount of management judgment regarding interpretation of relevant facts and laws in the jurisdictions in which we operate. Future changes in applicable laws, projected levels of taxable income, and tax planning could change the effective tax rate and tax balances recorded by us. In addition, tax authorities periodically review income tax returns filed by us and can raise issues regarding our filing positions, timing and amount of income or deductions, and the allocation of income among the jurisdictions in which we operate. A significant period of time may elapse between the filing of an income tax return and the ultimate resolution of an issue raised by a revenue authority with respect to that return. We believe that we have adequately provided for any reasonably foreseeable resolution of these matters. We will adjust our estimate if significant events so dictate. To the extent that the ultimate results differ from our original or adjusted estimates, the effect will be recorded in the tax on profit on ordinary activities in the period that the matter is finally resolved.

The Tax Reform Act constitutes a major change to the U.S. tax system. The estimated impact of the Tax Reform Act is based on current interpretations and related assumptions. As discussed further in Note 11 to the Consolidated Financial Statements, where applicable, we included provisional estimates in our Consolidated Financial Statements for impacts of the new Tax Reform Act. The actual impact to us may be materially different from current estimates based on regulatory developments and our further analysis of the impacts of the Tax Reform Act. In future periods, our effective tax rate could be subject to additional uncertainty as a result of regulatory developments.

Employee benefit plans

We provide a range of benefits to eligible employees and retirees, including pensions, postretirement and postemployment benefits. Determining the cost associated with such benefits is dependent on various actuarial assumptions including discount rates, expected return on plan assets, compensation increases, employee mortality, turnover rates and healthcare cost trend rates. Actuarial valuations are performed to determine expense in accordance with U.S. GAAP. Actual results may differ from the actuarial assumptions and are generally accumulated and amortized into the profit and loss account over future periods.

We review our actuarial assumptions at each measurement date and make modifications to the assumptions based on current rates and trends, if appropriate. The discount rate, the rate of compensation increase and the expected long-term rates of return on plan assets are determined as of each measurement date. Discount rates for all plans are established using hypothetical yield curves based on the yields of corporate bonds rated AA quality. Spot rates are developed from the yield curve and used to discount future benefit payments. The rate of compensation increase is dependent on expected future compensation levels. The expected long-term rate of return on plan assets reflects the average rate of returns expected on the funds invested or to be invested to provide for the benefits included in the projected benefit obligation. The expected long-term rate of return on plan assets is based on what is achievable given the plan's investment policy, the types of assets held and the target asset allocation. The expected long-term rate of return is determined as of each measurement date.

We believe that the assumptions utilized in recording our obligations under our plans are reasonable based on input from our actuaries, outside investment advisors and information as to assumptions used by plan sponsors.

Changes in any of the assumptions can have an impact on the net periodic pension cost or postretirement benefit cost. Estimated sensitivities to the expected 2017 net periodic pension cost of a 0.25% rate decline in the two basic assumptions are as follows: the decline in the discount rate would increase expense by approximately \$0.8 million and the decline in the estimated return on assets would increase expense by approximately \$0.7 million. A 1.0% increase in the healthcare cost trend rate would have no impact on expense as we have capped the annual maximum amount we will pay for retiree healthcare costs, therefore any additional costs would be assumed by the retiree.

Environmental Matters

We have a dedicated environmental program that is designed to reduce the utilization and generation of hazardous materials during the manufacturing process as well as to remediate identified environmental concerns. As to the latter, we are currently engaged in site investigations and remediation activities to address environmental cleanup from past operations at current and former production facilities. The Group regularly evaluates its remediation programs and considers alternative remediation methods that are in addition to, or in replacement of, those currently utilized by the Group based upon enhanced technology and regulatory changes.

We are sometimes a party to environmental lawsuits and claims and have received notices of potential violations of environmental laws and regulations from the U.S. Environmental Protection Agency (the "EPA") and similar state authorities. We have also been identified as a potentially responsible party ("PRP") for cleanup costs associated with off-site waste disposal at federal Superfund and state remediation sites. For all such sites, there are other PRPs and, in most instances, our involvement is minimal.

In estimating our liability, we have assumed that we will not bear the entire cost of remediation of any site to the exclusion of other PRPs who may be jointly and severally liable. The ability of other PRPs to participate has been taken into account, based on our understanding of the parties' financial condition and probable contributions on a per site basis. Additional lawsuits and claims involving environmental matters are likely to arise from time to time in the future.

We incurred \$3.2 million and \$23.3 million of expenses during the years ended 31 December 2017 and 2016 respectively, for environmental remediation at sites presently or formerly owned or leased by us. As of 31 December 2017 and 2016, we have recorded reserves for environmental matters of \$28.9 million and \$30.6 million. Of these amounts \$8.9 million and \$9.6 million, respectively, relate to remediation of sites previously disposed by us. Given the evolving nature of environmental laws, regulations and technology, the ultimate cost of future compliance is uncertain.

See Note 30 to the Consolidated Financial Statements for further discussion.

Principal Risks

The following are certain risk factors that could affect our business, financial condition, results of operations, and cash flows. The risk factors below are not the only risks faced by the Group.

Risks Relating to Our Businesses

Our global operations subject us to economic risks.

We are incorporated in Ireland and operate in countries worldwide. Our global operations depend on products manufactured, purchased and sold in the U.S. and internationally, including in Australia, China, Europe, Korea, Mexico, New Zealand and Turkey. The political, economic and regulatory environments in which we operate are becoming increasingly volatile and uncertain. Accordingly, we are subject to risks that are inherent in operating globally, including:

- changes in laws and regulations or imposition of currency restrictions and other restraints in various jurisdictions;
- limitation of ownership rights, including expropriation of assets by a local government, and limitation on the ability to repatriate earnings;
- sovereign debt crises and currency instability in developed and developing countries;
- changes in applicable tax regulations and interpretations;
- imposition of burdensome tariffs and quotas;
- difficulty in staffing and managing global operations;
- difficulty in enforcing agreements, collecting receivables and protecting assets through non-U.S. legal systems;
- political unrest, national and international conflict, including war, civil disturbances and terrorist acts; and
- economic downturns and social and political instability.

These risks could increase our cost of doing business in the U.S. and internationally, increase our counterparty risk, disrupt our operations, disrupt the ability of suppliers and customers to fulfill their obligations, increase our effective tax rate, increase the cost of our products, limit our ability to sell products in certain markets, reduce our operating margin and negatively impact our ability to compete.

Our business relies on the commercial and residential construction and remodeling markets.

We primarily rely on the commercial and residential construction and remodeling markets, which are marked by cyclicality based on overall economic conditions. Weakness or instability in these markets may cause current and potential customers to delay or choose not to make purchases, which could negatively impact the demand for our products and services.

Increased competition, including from technical developments, could adversely affect our business.

The markets in which we operate include a large number of participants, including multi-national companies, regional companies and small local companies. We primarily compete on the basis of quality, innovation, expertise, breadth of product offering and price. We may be unable to effectively compete on all these bases. If we are unable to anticipate evolving trends in the market or the timing and scale of our competitors' activities and initiatives, the demand for our products and services could be negatively impacted.

In addition, we compete in a market that is experiencing the convergence of the mechanical, electronic, and digital products. Technology and innovation play significant roles in the competitive landscape. Our success depends, in part, upon the research, development, and implementation of new technologies and products. Securing key partnerships and alliances as well as employee talent, including having access to technologies, services, intellectual property, and solutions developed by others will play a significant role in our ability to effectively compete. The continual development of new technologies by existing and new competitors, including non-traditional competitors with significant resources, could adversely affect our ability to sustain operating margins and desirable levels of sales volumes. To remain competitive, we must develop new products and respond to new technologies in a timely manner.

Our growth is dependent, in part, on the development, commercialization and acceptance of new products and services.

We must develop and commercialize new products and services in order to remain competitive in our current and future markets and in order to continue to grow our business. We cannot provide any assurance that any new product or service will be successfully commercialized in a timely manner, if ever, or, if commercialized, will result in returns greater than our investment. Investment in a product or service could divert our attention and resources from other projects that become more commercially viable in the market. We also cannot provide any assurance that any new product or service will be accepted by the market.

Changes in customer preferences and the inability to maintain beneficial relationships with large customers could adversely affect our business.

We have significant customers, particularly major retailers, although no one customer represented 10% or more of our total turnover in any of the past three fiscal years. The loss or material reduction of business, the lack of success of sales initiatives or changes in customer preferences or loyalties for our products related to any such significant customer could have a material adverse impact on our business. In addition, major customers who are volume purchasers are much larger than us and have strong bargaining power with suppliers. This limits our ability to recover cost increases through higher selling prices. Furthermore, unanticipated stock adjustments by these customers can have a negative impact on sales.

Our brands are important assets of our businesses and violation of our trademark rights by imitators could negatively impact turnover and brand reputation.

Our brands and trademarks enjoy a reputation for quality and value and are important to our success and competitive position. Unauthorized use of our trademarks may not only erode sales of our products, but may also cause significant damage to our brand name and reputation, interfere with relationships with our customers and increase litigation costs. There can be no assurance that our on-going effort to protect our brand and trademark rights will prevent all violations.

Currency exchange rate fluctuations may adversely affect our results.

We are exposed to a variety of market risks, including the effects of changes in currency exchange rates. Approximately 30% of our 2017 turnover was derived outside the U.S., and we expect sales to non-U.S. customers to continue to represent a significant portion of our consolidated turnover. Although we may enter into currency exchange contracts to reduce our risk related to currency exchange fluctuations, changes in the relative fair values of currencies occur from time to time and may, in some instances, have a material impact on our results of operations. Because we do not hedge against all of our currency exposure our business will continue to be susceptible to currency fluctuations.

We also translate assets, liabilities, turnover and expenses denominated in non-U.S. dollar currencies into U.S. dollars for our Consolidated Financial Statements based on applicable exchange rates. Consequently, fluctuations in the value of the U.S. dollar compared to other currencies will have a material impact on the value of these items in our Consolidated Financial Statements, even if their value has not changed in their original currency.

Our business strategy includes making acquisitions and investments that complement our existing business. These acquisitions and investments could be unsuccessful or consume significant resources, which could adversely affect our operating results.

We will continue to analyze and evaluate the acquisition of strategic businesses or product lines with the potential to strengthen our industry position or enhance our existing set of products and services offerings. We cannot assure you that we will identify or successfully complete transactions with suitable acquisition candidates in the future, nor can we assure you that completed acquisitions will be successful.

Some of the businesses we may seek to acquire or invest in may be marginally profitable or unprofitable. For these businesses to achieve acceptable levels of profitability, we must improve their management, operations, products and market penetration. We may not be successful in this regard and we may encounter other difficulties in integrating acquired businesses into our existing operations.

Acquisitions and investments may involve significant cash expenditures, debt incurrence, operating losses and expenses. Acquisitions involve numerous other risks, including:

- diversion of management time and attention from daily operations;
- difficulties integrating acquired businesses, technologies and personnel into our business;
- difficulties realizing synergies expected to result from acquisitions;
- difficulties in obtaining and verifying the financial statements and other business information of acquired businesses;
- inability to obtain regulatory approvals and/or required financing on favorable terms;
- potential loss of key employees, key contractual relationships or key customers of acquired companies or of us;
- assumption of the liabilities and exposure to unforeseen liabilities of acquired companies;
- dilution of interests of holders of our ordinary shares through the issuance of equity securities or equity-linked securities; and
- difficulty in integrating financial reporting systems and implementing controls, procedures and policies, including disclosure controls and procedures and internal control over financial reporting, appropriate for public companies of our size at companies that, prior the acquisition, had lacked such controls, procedures and policies.

We continually look to expand our services and products into international markets. As we expand into new international markets, we will have only limited experience in marketing and operating services and products in such markets. In other instances, we may rely on the efforts and abilities of foreign business partners in such markets. Certain international markets may be slower than domestic markets in adopting our services and products, and our operations in international markets may not develop at a rate that supports our level of investment. In addition to the risks outlined above, expansion into international markets may require us to compete with local businesses with greater knowledge of the market, including the tastes and preferences of customers, and businesses with dominant market shares.

It may be difficult for us to complete transactions quickly, integrate acquired operations efficiently into our current business operations or effectively compete in new markets we enter. Any acquisitions or investments may ultimately harm our business or financial condition, as such acquisitions may not be successful and may ultimately result in impairment charges.

We may pursue business opportunities that diverge from core business.

We may pursue business opportunities that diverge from our core business, including expanding our products or service offerings, investing in new and unproven technologies, and forming new alliances with companies to distribute our products and services. We can offer no assurance that any such business opportunities will prove to be successful. Among other negative effects, our investment in new business opportunities may exceed the returns we realize. Additionally, any new investments could have higher cost structures than our current business, which could reduce operating margins and require more working capital. In the event that working capital requirements exceed operating cash flow, we may be required to draw on our revolving credit facility or pursue other external financing, which may not be readily available.

Our enterprise excellence efforts may not achieve the improvements we expect.

We utilize a number of tools to improve efficiency and productivity. Implementation of new processes to our operations could cause disruptions and there is no assurance that all of our planned enterprise excellence projects will be fully implemented, or if implemented will realize the expected improvements.

Our periodic restructuring plans may not be successful.

We have in the past restructured or made other adjustments to our workforce and manufacturing footprint in response to market changes, product changes, performance issues, change in strategies, acquisitions, and other internal and external considerations. Historically, these types of restructuring have resulted in increased restructuring costs and temporary reduced productivity. In addition, we may not achieve or sustain the expected growth or cost savings benefits of these restructurings, or do so within the expected timeframe. These effects could recur in connection with future acquisitions and other restructurings and our turnover and other results of operations could be negatively affected.

Material adverse legal judgments, fines, penalties or settlements could adversely affect our business.

We are currently and may in the future become involved in legal proceedings and disputes incidental to the operation of our business. Our business may be adversely affected by the outcome of these proceedings and other contingencies (including, without limitation, environmental matters) that cannot be predicted with certainty. As required by U.S. generally accepted accounting principles ("U.S. GAAP"), we establish reserves based on our assessment of contingencies. Subsequent developments in legal proceedings and other contingencies may affect our assessment and estimates of the loss contingency recorded as a reserve and we may be required to make additional material payments

Allegations that we have infringed the intellectual property rights of third parties could negatively affect us.

We may be subject to claims of infringement of intellectual property rights by third parties. In particular, we often compete in areas having extensive intellectual property rights owned by others and we have become subject to claims alleging infringement of intellectual property rights of others. In general, if it is determined that one or more of our technologies, products or services infringes the intellectual property rights owned by others, we may be required to cease marketing those services, to obtain licenses from the holders of the intellectual property at a material cost or to take other actions to avoid infringing the intellectual property rights. The litigation process is costly and subject to inherent uncertainties, and we may not prevail in litigation matters regardless of the merits of our position. Adverse intellectual property litigation or claims of infringement against us may become extremely disruptive if the plaintiffs succeed in blocking the trade of our products and services and may have a material adverse effect on our business.

Our reputation, ability to do business and results of operations could be impaired by improper conduct by any of our employees, agents or business partners.

We are subject to regulation under a variety of U.S. federal and state and non-U.S. laws, regulations and policies including laws related to anti-corruption, export and import compliance, anti-trust and money laundering, due to our global operations. We cannot provide assurance our internal controls will always protect us from the improper conduct of our employees, agents and business partners. Any improper conduct could damage our reputation and subject us to, among other things, civil and criminal penalties, material fines, equitable remedies (including profit disgorgement and injunctions on future conduct), securities litigation and a general loss of investor confidence.

Disruptions in our global supply chain, including product manufacturing and logistical services provided by outsourcing partners, may negatively impact our business.

Our ability to meet our customers' needs and achieve cost targets depends on our ability to maintain key manufacturing and supply arrangements, including execution of supply chain optimizations and certain sole supplier or sole manufacturing arrangements. The loss or disruption of such manufacturing and supply arrangements could interrupt product supply and, if not effectively managed and remedied, have an adverse impact on our business.

We outsource certain manufacturing and logistical services to partners located throughout the world. Our reliance on these third parties reduces our control over the manufacturing and delivery process, exposing us to risks, including reduced control over quality assurance, product costs, product supply and delivery delays. If we are unable to manage these relationships, or if these third parties experience delays, disruptions, capacity constraints, regulatory issues or quality control problems in their operations or fail to meet our future requirements for timely delivery, our ability to ship and deliver certain of our hardware products to our customers could be impaired and our hardware business could be harmed.

We may be subject to risks relating to our information technology systems.

We rely extensively on information technology systems to manage and operate our business. There can be no assurance that our current information technology systems will function properly. We have invested and will continue to invest in improving our information technology systems. Some of these investments are significant and impact many important operational processes and procedures. There is no assurance that any newly implemented information technology systems will improve our current systems, will improve our operations, or will yield the expected returns on the investments. In addition, the implemented, negatively impact our business. If our information technology systems cease to function properly or if these systems do not provide the anticipated benefits, our ability to manage our operations could be impaired.

We currently rely on a single vendor for many of the critical elements of our global information technology infrastructure and its failure to provide effective support for such infrastructure could negatively impact our business and financial results.

We have outsourced many of the critical elements of our global information technology infrastructure to a third-party service provider in order to achieve efficiencies. If the service provider does not perform or does not perform effectively, we may not be able to achieve the expected efficiencies and may have to incur additional costs to address failures in providing service by the service provider. Depending on the function involved, such non-performance, ineffective performance or failures of service may lead to business disruptions, processing inefficiencies or security breaches.

Disruptions or breaches of our information systems could adversely affect us.

Despite our implementation of network security measures, which have focused on prevention, mitigation, resilience, and recovery, our network and products may be vulnerable to cybersecurity attacks, computer viruses, break-ins and similar disruptions. Cybersecurity attacks and intrusion efforts are continuous and evolving, and in certain cases they have been successful at the most robust institutions. The scope and severity of risks that cyber threats present have increased dramatically, and include, but are not limited to, malicious software, attempts to gain unauthorized access to data, exploiting weaknesses related to vendors or other third parties that could be exploited to attack our systems, denials of service, and other electronic security breaches that could lead to disruptions in systems, unauthorized release of confidential or otherwise protected information and corruption of data. Any such event could have a material adverse effect on our business, operating results and financial condition, as we face regulatory, reputational and litigation risks resulting from potential cyber incidents, as well as the potential of incurring significant remediation costs.

Our daily business operations also require us to retain sensitive data such as intellectual property, proprietary business information and data related to customers, suppliers and business partners within our networking infrastructure. The loss or breach of such information could result in wide reaching negative impacts to our business, and as such, the ongoing maintenance and security of this information is pertinent to the success of our business operations and our strategic goals.

Our networking infrastructure and related assets may be subject to unauthorized access by hackers, employee errors, or other unforeseen activities. Such issues could result in the disruption of business processes, network degradation and system downtime, along with the potential that a third party will exploit our critical assets such as intellectual property, proprietary business information and data related to our customers, suppliers and business partners. To the extent that such disruptions occur, they may cause delays in the manufacture or shipment of our products and the cancellation of customer orders and, as a result, our business operating results and financial condition could be materially and adversely affected resulting in a possible loss of business or brand reputation.

Commodity shortages, price increases and higher energy prices could negatively affect our financial results.

We rely on suppliers to secure commodities, including steel, zinc, brass and other non-ferrous metals, required for the manufacture of our products. A disruption of deliveries from our suppliers or decreased availability of commodities could have an adverse effect on our ability to meet our commitments to customers or increase our operating costs. We believe that available sources of supply will generally be sufficient for our needs for the foreseeable future. Nonetheless, the unavailability of some commodities could have a material adverse impact on our business.

Volatility in the prices of these commodities could increase the costs of our products and services, and we may not be able to pass on these costs to our customers. We do not currently use financial derivatives to hedge against this volatility, however, we utilize firm purchase commitments to mitigate risk. The pricing of some commodities we use is based on market prices. To mitigate this exposure, we may use annual price contracts to minimize the impact of inflation and to benefit from deflation.

Additionally, we are exposed to fluctuations in energy prices due to the instability of current market prices. Higher energy costs increase our operating costs and the cost of shipping our products and supplying services to our customers around the world. Consequently, sharp price increases, the imposition of taxes or an interruption of supply, could cause us to lose the ability to effectively manage the risk of rising energy prices and may have an adverse impact on our results of operations and cash flows.

We may be required to recognize impairment charges for our goodwill and other indefinite-lived intangible assets.

At 31 December 2017, the net carrying value of our goodwill and other indefinite-lived intangible assets totaled approximately \$761.2 million and \$75.4 million, respectively. Pursuant to U.S. GAAP, we are required to annually assess our goodwill, indefinite-lived intangibles and other long-lived assets to determine if they are impaired. In addition, interim assessments must be performed whenever events or changes in circumstances indicate that impairment may have occurred. If the testing performed indicates that impairment has occurred, we are required to record a non-cash impairment charge for the difference between the carrying value of the goodwill or other intangible assets and the fair value of the goodwill or other intangible assets in the period the determination is made. Disruptions to our business, end market conditions and protracted economic weakness, unexpected significant declines in operating results of reporting units, divestitures and market capitalization declines may result in additional charges for goodwill and other asset impairments. We have significant intangible assets, including goodwill with an indefinite life, which are susceptible to valuation adjustments as a result of changes in such factors and conditions.

The basis of the fair value for our impairment assessments is determined by projecting future cash flows using assumptions concerning future operating performance and economic conditions that may differ from actual cash flows. The financial and credit market volatility directly impacts our fair value measurement through our weighted average cost of capital that we use to determine our discount rate and through our stock price that we use to determine our market capitalization. Although our last analysis regarding the fair values of the goodwill and indefinite-lived intangible assets for our reporting units indicates that they exceed their respective carrying values, materially different assumptions regarding the future performance of our businesses or significant declines in our stock price could result in additional goodwill and intangible impairment losses. Specifically, an unanticipated deterioration in turnover and operating margins generated by our EMEIA and/or Asia Pacific segments could trigger future impairment in those segments. While we currently believe that our projected results will not result in future impairment, a deterioration in results or other factors could trigger a future impairment.

Successful sales and marketing efforts depend on our ability to recruit and retain qualified employees.

Our ability to successfully grow our business depends on the contributions and abilities of key executives, our sales force and other personnel, including the ability of our sales force to adapt to any changes made in the sales organization and achieve adequate customer coverage. We must therefore continue to sufficiently recruit, retain and motivate management, sales and other personnel to maintain our current business and support our projected growth. A shortage of these key employees might jeopardize our ability to grow and expand our business.

Our operations are subject to regulatory risks.

Our U.S. and non-U.S. operations are subject to a number of laws and regulations, including fire and building codes and standards, environmental and health and safety. We have incurred, and will be required to continue to incur, significant expenditures to comply with these laws and regulations. Changes to, or changes in interpretations of, current laws and regulations could require us to increase our compliance expenditures, cause us to significantly alter or discontinue offering existing products and services or cause us to develop new products and services. Altering current products and services or developing new products and services to comply with changes in the applicable laws and regulations could require significant research and development investments, increase the cost of providing the products and services and adversely affect the demand for our products and services.

We may not have been, or we may not at all times be, in full compliance with these laws and regulations. In the event a regulatory authority concludes that we are not or have not at all times been in full compliance with these laws, we could be fined, criminally charged or otherwise sanctioned.

Certain environmental laws assess liability on current or previous owners of real property or operators of manufacturing facilities for the costs of investigation, removal or remediation of hazardous substances or materials at such properties or at properties at which parties have disposed of hazardous substances. Liability for investigative, removal and remedial costs under certain U.S. federal and state laws and certain non-U.S. laws are retroactive, strict and joint and several. In addition to cleanup actions brought by governmental authorities, private parties could bring personal injury or other claims due to the presence of, or exposure to, hazardous substances. We have received notification from U.S. and non-U.S. governmental agencies, including the EPA and similar state environmental agencies, that conditions at a number of current and formerly owned sites where we and others have disposed of hazardous substances require investigation, cleanup and other possible remedial action. These agencies may require that we reimburse the government for its costs incurred at these sites or otherwise pay for the costs of investigation and cleanup of these sites, including by providing compensation for natural resource damage claims from such sites.

While we have planned for future capital and operating expenditures to maintain compliance with environmental laws and have accrued for costs related to current remedial efforts, our costs of compliance, or our liabilities arising from past or future releases of, or exposures to, hazardous substances may exceed our estimates. We may also be subject to additional environmental claims for personal injury or cost recovery actions for remediation of facilities in the future based on our past, present or future business activities.

The capital and credit markets are important to our business.

Instability in U.S. and global capital and credit markets, including market disruptions, limited liquidity and interest rate volatility, or reductions in the credit ratings assigned to us by independent ratings agencies could reduce our access to capital markets or increase the cost of funding our short and long term credit requirements. In particular, if we are unable to access capital and credit markets on terms that are acceptable to us, we may not be able to make certain investments or fully execute our business plans and strategy.

Our suppliers and customers are also dependent upon the capital and credit markets. Limitations on the ability of customers, suppliers or financial counterparties to access credit could lead to insolvencies of key suppliers and customers, limit or prevent customers from obtaining credit to finance purchases of our products and services and cause delays in the delivery of key products from suppliers.

As a global business, we have a relatively complex tax structure, and there is a risk that tax authorities will disagree with our tax positions.

Since we conduct operations worldwide through our subsidiaries, we are subject to complex transfer pricing regulations in the countries in which we operate. Transfer pricing regulations generally require that, for tax purposes, transactions between us and our affiliates be priced on a basis that would be comparable to an arm's length transaction and that contemporaneous documentation be maintained to support the tax allocation. Although uniform transfer pricing standards are emerging in many of the countries in which we operate, there is still a relatively high degree of uncertainty and inherent subjectivity in complying with these rules. To the extent that any tax authority disagrees with our transfer pricing policies, we could become subject to significant tax liabilities and penalties. Our tax returns are subject to review by taxing authorities in the jurisdictions in which we operate. Although we believe that we have provided for all tax exposures, the ultimate outcome of a tax review could differ materially from our provisions for liabilities.

Changes in our effective income tax rate may have an adverse effect on our results of operations.

We are subject to taxes in Ireland, the U.S. and numerous other jurisdictions. Due to economic and political conditions, tax rates in various jurisdictions may be subject to significant change.

Our future effective tax rate may be adversely affected by a number of additional factors including:

- the jurisdictions in which profits are determined to be earned and taxed;
- the resolution of issues arising from tax audits with various tax authorities;
- changes in the enforcement environment;
- changes in the valuation of our deferred tax assets and liabilities;
- changes in jurisdictional mix of profits;
- changes in tax laws or the interpretation of such tax laws and changes in generally accepted accounting principles;
- changes in foreign tax rates or agreed upon foreign taxable base; and/or
- the repatriation of earnings from outside Ireland for which we have not previously provided for taxes.

There are risks associated with our outstanding and future indebtedness

We have approximately \$1.5 billion of outstanding indebtedness at 31 December 2017. In addition, we have a senior unsecured revolving credit facility that permits borrowings of up to an additional \$500 million. Volatility in the credit markets could adversely impact our ability to obtain favorable terms on financing in the future. A substantial portion of our cash flows from operations is dedicated to the payment of principal and interest on our indebtedness and will not be available for other purposes, including our operations, capital expenditures, payment of dividends, share repurchase programs and future business opportunities.

Our ability to make scheduled payments or to refinance our debt obligations depends on our financial and operating performance, which is subject to prevailing economic and competitive conditions and to certain financial, business and other factors beyond our control. If our cash flows and capital resources are insufficient to fund our debt service obligations, we may be forced to reduce or delay capital expenditures, reduce or eliminate the payment of dividends, sell assets, seek additional capital or seek to restructure or refinance our indebtedness. These alternative measures may not be successful and may not permit us to meet our scheduled debt service obligations. In the absence of such operating results and resources, we could face substantial liquidity problems and might be required to sell material assets or operations to attempt to meet our debt service and other obligations.

Additionally, a portion of our borrowings at 31 December 2017 include a term loan with a variable rate of interest which exposes us to interest rate risk. We are exposed to the risk of rising interest rates to the extent that we fund our operations with short-term or variable-rate borrowings. At 31 December 2017, our \$1.5 billion of aggregate debt outstanding includes \$691 million of floating-rate term loans and \$800 million of our fixed-rate senior notes. We have the ability to incur up to \$500 million of additional floating-rate debt under our senior unsecured revolving credit facility. We have entered into interest rate swaps for \$250 million of our floating-rate term loans to manage our interest rate risk. A 100 basis point increase in LIBOR would have resulted in incremental 2017 interest payable of approximately \$5.6 million. If the LIBOR or other applicable base rates under our senior unsecured credit facilities increase in the future then the interest on floating-rate debt could have a material effect on our interest payable and similar charges.

Risks Relating to the Spin-off

In connection with the Spin-off, Ingersoll Rand indemnified us for certain liabilities and we indemnified Ingersoll Rand for certain liabilities. If we are required to act on these indemnities to Ingersoll Rand, we may need to divert cash to meet those obligations and our financial results could be negatively impacted. The Ingersoll Rand indemnity may not be sufficient to insure us against the full amount of liabilities for which it will be allocated responsibility, and Ingersoll Rand may not be able to satisfy its indemnification obligations in the future.

Pursuant to the Separation and Distribution Agreement, the Employee Matters Agreement and the Tax Matters Agreement with Ingersoll Rand, Ingersoll Rand agreed to indemnify us for certain liabilities, and we agreed to indemnify Ingersoll Rand for certain liabilities, in each case for uncapped amounts. Such indemnities may be significant and could negatively impact our business, particularly indemnities relating to our actions that could impact the tax-free nature of the Spin-off. Third parties could also seek to hold us responsible for any of the liabilities that Ingersoll Rand retained. Further, the indemnity from Ingersoll Rand may not be sufficient to protect us against the full amount of such liabilities, and Ingersoll Rand may not be able to fully satisfy its indemnification obligations. Moreover, even if we ultimately succeed in recovering from Ingersoll Rand any amounts for which we are held liable, we may be temporarily required to bear these losses ourselves.

If the distribution or certain internal transactions undertaken in anticipation of the spin-off are determined to be taxable for U.S. federal income tax purposes, we, our shareholders that are subject to U.S. federal income tax and/or Ingersoll Rand could incur significant U.S. federal income tax liabilities and, in certain circumstances, we could be required to indemnify Ingersoll Rand for material taxes pursuant to indemnification obligations under the Tax Matters Agreement.

Ingersoll Rand has received an IRS ruling substantially to the effect that, among other things, the distribution of our ordinary shares, together with certain related transactions, qualify under Sections 355 and 368(a) of the internal revenue code ("the Code"), with the result that Ingersoll Rand and Ingersoll Rand's shareholders will not recognize any taxable income, gain or loss for U.S. federal income tax purposes as a result of the Spin-off, except to the extent of cash received in lieu of fractional shares (the "IRS Ruling"). The IRS Ruling also provided that certain internal transactions undertaken in anticipation of the distribution qualify for favorable treatment under the Code. In addition to obtaining the IRS Ruling, Ingersoll Rand received opinions from the law firm of Simpson Thacher & Bartlett LLP substantially to the effect that certain requirements, including certain requirements that the IRS did not rule on, necessary to obtain tax-free treatment have been satisfied, such that the distribution for U.S. federal income tax purposes and certain other matters relating to the distribution, including certain internal transactions undertaken in anticipation of the distribution, received tax-free treatment under Section 355 of the Code. The receipt and effectiveness of the IRS Ruling and the opinions were conditions to the distribution that were satisfied or waived by Ingersoll Rand. The IRS Ruling and the opinions rely on certain facts and assumptions and certain representations and undertakings from us and Ingersoll Rand regarding the past and future conduct of our respective businesses and other matters. Notwithstanding the IRS Ruling and the opinions, the IRS could determine on audit that the distribution or the internal transactions should be treated as taxable transactions if it determines that any of these facts, assumptions, representations or undertakings is not correct or has been violated, or that the distribution or the internal transactions should be taxable for other reasons, including as a result of significant changes in shares or asset ownership after the distribution. A legal opinion represents the tax adviser's best legal judgment, is not binding on the IRS or the courts, and the IRS or the courts may not agree with the opinion. In addition, the opinion will be based on then current law, and cannot be relied upon if current law changes with retroactive effect. If the distribution is determined to be taxable, the distribution could be treated as a taxable dividend or capital gain for U.S. federal income tax purposes, and our shareholders could incur significant U.S. federal income tax liabilities. In addition, we or Ingersoll Rand could incur significant U.S. federal income tax liabilities if it is ultimately determined that certain internal transactions undertaken in anticipation of the distribution are taxable.

In addition, under the terms of the Tax Matters Agreement, in the event the distribution or the internal transactions were determined to be taxable as a result of actions taken after the distribution by us or Ingersoll Rand, the party responsible for such failure would be responsible for all taxes imposed on us or Ingersoll Rand as a result thereof. If such failure is not the result of actions taken after the distribution by us or Ingersoll Rand, then we would be responsible for any taxes imposed on us or Ingersoll Rand as a result of such determination. Such tax amounts could be significant.

If the distribution is determined to be taxable for Irish tax purposes, significant Irish tax liabilities may arise.

Ingersoll Rand has received an opinion of the Irish Revenue regarding the Irish tax consequences of the distribution to the effect that certain reliefs and exemptions for corporate reorganizations apply. In addition to obtaining the opinion from Irish Revenue, Ingersoll Rand received an opinion from the law firm of Arthur Cox confirming the applicability of the relevant exemptions and reliefs to the distribution and that certain internal transactions will not trigger tax costs. These opinions rely on certain facts and assumptions and certain representations and undertakings from us and Ingersoll Rand regarding the past and future conduct of our respective businesses and other matters. Notwithstanding the opinions, Irish Revenue could determine on audit that the distribution or the internal transactions do not qualify for the relevant exemptions or reliefs if it determines that any of these facts, assumptions, representations or undertakings is not correct or has been violated. A legal opinion represents the tax adviser's best legal judgment, is not binding on Irish Revenue or the courts and Irish Revenue or the courts may not agree with the legal opinion. In addition, the legal opinion was based on then current law, and cannot be relied upon if current law changes with retroactive effect. If the distribution ultimately is determined not to fall within certain exemptions or reliefs, the distribution could result in our shareholders having an Irish tax liability as a result of the distribution (if a shareholder is an Irish resident or holds shares in Ingersoll Rand in an Irish branch or agency), or we or Ingersoll Rand could incur Irish tax liabilities.

In addition, under the terms of the Tax Matters Agreement, in the event the distribution does not qualify for certain reliefs or exemptions, then we would be responsible for any taxes imposed on us or Ingersoll Rand as a result of such determination. Such tax amounts could be significant.

Risks Related to Our Incorporation in Ireland

Irish law differs from the laws in effect in the United States and may afford less protection to holders of our securities.

The United States currently does not have a treaty with Ireland providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. As such, there is some uncertainty as to whether the courts of Ireland would recognize or enforce judgments of U.S. courts obtained against us or our directors or officers based on U.S. federal or state civil liability laws, including the civil liability provisions of the U.S. federal or state securities laws, or hear actions against us or those persons based on those laws.

As an Irish company, we are governed by the Irish Companies Act, which differs in some material respects from laws generally applicable to U.S. corporations and shareholders, including, among others, differences relating to interested director and officer transactions and shareholder lawsuits. Likewise, the duties of directors and officers of an Irish company generally are owed to the company only. Shareholders of Irish companies generally do not have a personal right of action against directors or officers of the company and may exercise such rights of action on behalf of the company only in limited circumstances. Accordingly, holders of our securities may have more difficulty protecting their interests than would holders of securities of a corporation incorporated in a jurisdiction of the United States.

In addition, Irish law allows shareholders to authorize share capital which then can be issued by a board of directors without shareholder approval. Also, subject to specified exceptions, Irish law grants statutory preemptive rights to existing shareholders to subscribe for new issuances of shares for cash. However, we have opted out of these preemption rights in our Constitution as permitted under Irish company law. Irish law provides that this opt-out expires after five years unless renewed by a special resolution of the shareholders. These authorizations must be renewed by the shareholders every five years and we cannot guarantee that these authorizations will always be approved.

Changes in tax laws, regulations or treaties, changes in our status under the tax laws of many jurisdictions or adverse determinations by taxing authorities could increase our tax burden or otherwise affect our financial condition or operating results, as well as subject our shareholders to additional taxes.

The realization of any tax benefit related to our incorporation and tax residence in Ireland could be impacted by changes in tax laws, tax treaties or tax regulations or the interpretation or enforcement thereof by the tax authorities of many jurisdictions. From time to time, proposals have been made and/or legislation has been introduced to change the tax laws of various jurisdictions or limit tax treaty benefits that if enacted could materially increase our tax burden and/or effective tax rate. For instance, recent U.S. legislative proposals could modify or eliminate the tax deductibility of various currently deductible payments, which could materially and adversely affect our effective tax rate and cash tax position. Moreover, other U.S. legislative proposals could have a material adverse impact on us by overriding certain tax treaties and limiting the treaty benefits on certain payments by our U.S. subsidiaries to our non-U.S. affiliates, which could increase our tax liability. We cannot predict the outcome of any specific legislation in any jurisdiction.

While we monitor proposals that would materially impact our tax burden and/or effective tax rate and investigate our options, we could still be subject to increased taxation on a going forward basis no matter what action we undertake if certain legislative proposals are enacted, certain tax treaties are amended and/or our interpretation of applicable tax law is challenged and determined to be incorrect. In particular, any changes and/or differing interpretations of applicable tax law that have the effect of disregarding our incorporation in Ireland, limiting our ability to take advantage of tax treaties between jurisdictions, modifying or eliminating the deductibility of various currently deductible payments, or increasing the tax burden of operating or being resident in a particular country, could subject us to increased taxation.

Dividends received by our shareholders may be subject to Irish dividend withholding tax.

In certain circumstances, we are required to deduct Irish dividend withholding tax (currently at the rate of 20%) from dividends paid to our shareholders. In the majority of cases, shareholders residing in the United States will not be subject to Irish withholding tax, and shareholders resident in a number of other countries will not be subject to Irish withholding tax provided that they complete certain Irish dividend withholding tax forms. However, some shareholders may be subject to withholding tax, which could discourage the investment in our stock and adversely impact the price of our shares.

Dividends received by our shareholders could be subject to Irish income tax.

Dividends paid in respect of our shares generally are not subject to Irish income tax where the beneficial owner of these dividends is exempt from Irish dividend withholding tax, unless the beneficial owner of the dividend has some connection with Ireland other than his or her shareholding in Allegion.

Our shareholders who receive their dividends subject to Irish dividend withholding tax will generally have no further liability to Irish income tax on the dividends unless the beneficial owner of the dividend has some connection with Ireland other than his or her shareholding in Allegion.

Certain provisions in our Constitution, among other things, could prevent or delay an acquisition of us, which could decrease the trading price of our ordinary shares.

Our Constitution contain provisions to deter takeover practices, inadequate takeover bids and unsolicited offers. These provisions include, amongst others:

- a provision of our Constitution which generally prohibits us from engaging in a business combination with an interested shareholder (being (i) the beneficial owner of the relevant percentage of our voting shares or (ii) an affiliate or associate of us that has at any time within the last five years been the beneficial owner of the relevant percentage of our voting shares), subject to certain exceptions;
- rules regarding how shareholders may present proposals or nominate directors for election at shareholder meetings;
- the right of our Board of Directors to issue preferred shares without shareholder approval in certain circumstances, subject to applicable law; and
- the ability of our Board of Directors to set the number of directors and to fill vacancies on our Board of Directors in certain circumstances.

We believe these provisions will provide some protection to our shareholders from coercive or otherwise unfair takeover tactics. These provisions are not intended to make us immune from takeovers. However, these provisions will apply even if the offer may be considered beneficial by some shareholders and could delay or prevent an acquisition that our Board of Directors determines is in our best interests and our shareholders' best interests. These provisions may also prevent or discourage attempts to remove and replace incumbent directors.

In addition, several mandatory provisions of Irish law could prevent or delay an acquisition of us. For example, Irish law does not permit shareholders of an Irish public limited company to take action by written consent with less than unanimous consent. We also will be subject to various provisions of Irish law relating to mandatory bids, voluntary bids, requirements to make a cash offer and minimum price requirements, as well as substantial acquisition rules and rules requiring the disclosure of interests in our shares in certain circumstances. Also, Irish companies, including us, may alter their Constitution only with the approval of at least 75% of the votes of the company's shareholders cast in person or by proxy at a general meeting of the company.

The agreements that we entered into with Ingersoll Rand in connection with the spin-off generally require Ingersoll Rand's consent to any assignment by us of our rights and obligations under the agreements. The consent and termination rights set forth in these agreements might discourage, delay or prevent a change of control that shareholders may consider favorable.

Significant Events in 2017 and 2016

Acquisitions

We completed one business acquisition in both 2017 and 2016:

Acquisitions	
Business	Month
Trelock GmbH	June 2016
Republic Doors & Frames, LLC	January 2017

The incremental impact of the acquisitions for the twelve months ended 31 December 2017 was a net increase in turnover of approximately \$32.3 million and a net decrease to operating profit of approximately \$0.6 million compared to the same period in the prior year. The incremental impact of the acquisitions and divestitures for the twelve months ended 31 December 2016 was a net increase in turnover of approximately \$63.6 million and a net increase in operating profit of approximately \$7.3 million compared to the same period in the prior year.

During the year ended 31 December 2017, we incurred \$4.7 million of due diligence and acquisition and integration costs. Acquisition related costs were not material to the 2016 Consolidated Profit and Loss Account.

2017 Dividends

We paid quarterly dividends of \$0.16 per ordinary share to shareholders on record as of 13 March 2017, 13 June 2017, 15 September 2017, and 15 December 2017. We paid a total of \$60.9 million in cash for dividends to ordinary shareholders during the year ended 31 December 2017.

Restructuring charges

In conjunction with ongoing restructuring actions throughout the year primarily related to workforce reductions and the closure and consolidation of manufacturing facilities in an effort to increase efficiencies, we incurred charges of \$12.3 million for the year ended 31 December 2017.

We also incurred \$1.5 million of other non-qualified restructuring charges during the year ended 31 December 2017 related to costs directly attributable to restructuring activities, but do not fall into the severance, exit, or disposal category.

Financing activities

We entered into a new \$1.2 billion unsecured credit agreement (the "Credit Agreement"), consisting of a \$700.0 million term loan facility (the "Term Facility") and a \$500.0 million revolving credit facility (the "Revolving Facility", and together with the Term Facility, the "Credit Facilities"). The initial proceeds of \$700.0 million from the Term Facility, along with initial borrowings of \$165.0 million under the Revolving Facility, were used primarily to repay in full our previously outstanding secured credit facility, the Second Amended and Restated Credit Agreement, dated as of 30 September 2015. All obligations under the Second Amended and Restated Credit Agreement were satisfied, all commitments thereunder were terminated, and all guarantees and security interests that had been granted in connection therewith were released.

On 2 October 2017, we issued \$400.0 million of 3.200% Senior Notes due 2024 (the "3.200% Senior Notes") and \$400.0 million of 3.550% Senior Notes due 2027 (the "3.550% Senior Notes" and, together with the 3.200% Senior Notes, the "Notes"). On 3 October 2017 we used the net proceeds from the Notes to redeem in full the \$300.0 million Senior Notes due 2023, as well as to repay in full the \$165.0 million of borrowings under the Revolving Facility and other costs associated with the refinancing.

Share repurchases

In February 2017, our Board of Directors approved a new stock repurchase authorization of up to \$500 million of the Company's ordinary shares ("2017 Share Repurchase Authorization"). The 2017 Share Repurchase Authorization does not have a prescribed expiration date. We paid a total of \$60.0 million to repurchase and cancel 0.8 million ordinary shares during the year ended 31 December 2017 and \$85.1 million to repurchase and cancel 1.3 million ordinary shares during the year ended 31 December 2016 under the previous authorized share repurchase plan that was established in 2014. At 31 December 2017, we have approximately \$440.0 million available under the 2017 Share Repurchase Authorization.

Results for the year and proposed transfer to reserves

The results for the year are set out in the Group Consolidated Profit and Loss Account on page 40. The balance to be transferred to reserves is \$273.3 million.

Future Developments

We intend to maintain profitable growth in the markets we serve today and in adjacent product categories by being the preferred, trusted security partners to our end-users.

Accounting records

The directors are responsible for ensuring that the Group keeps proper books of accounting records and appropriate accounting systems to secure compliance with the requirements of sections 281 to 285 of the Companies Act 2014. To achieve this, the directors have appointed a Chief Financial Officer who makes regular reports to the Board of Directors and to the Audit and Finance Committee of the Board of Directors. In addition, the head of the Group's internal audit department and the General Counsel make regular reports to the Audit and Finance Committee, which is comprised of the Group's independent directors, in turn, briefs the full Board of Directors as appropriate on significant financial matters arising from reports of the Chief Financial Officer, the head of internal audit, the General Counsel and the external auditor.

The measures taken by the directors to secure compliance with the Group's obligation to keep proper books of account are the use of appropriate systems and procedures and employment of competent persons. The books of account are kept at Block D, Iveagh Court, Harcourt Road, Dublin 2, Republic of Ireland.

Events since Year End

Dividends declared

On 8 February 2018, the Group's Board of Directors declared a quarterly dividend of \$0.21 cents per ordinary share. The dividend is payable 29 March 2018 to shareholders of record on 15 March 2018.

Share repurchases

During February and March 2018, the Company repurchased and cancelled 351,826 ordinary shares of \$0.01 each, at a weighted average price of \$85.24.

Retirement of director

On 7 February 2018, Michael J. Chesser, a member of the Board of Directors of Allegion plc, retired from the Board.

Acquisitions

Subsequent to the year ended 31 December 2017, the Group completed four acquisitions:

Business	Date
Technical Glass Products, Inc. ("TGP")	January 2018
Hammond Enterprises, Inc. ("Hammond")	January 2018
Qatar Metal Industries LLC ("QMI")	February 2018
AD Systems, Inc. ("AD Systems")	March 2018

In January 2018, the Group acquired 100% of TGP through one of its subsidiaries. TGP provides glass and framing solutions for commercial buildings, as well as non-fire rated architectural glass and framing, including channel glass systems and curtain walls throughout the United States, Canada, and select markets in the Middle East. TGP will be incorporated into the Group's Americas and EMEIA segments.

In January 2018, the Group acquired 100% of the machinery, equipment, and intellectual property of a division of Hammond through one of its subsidiaries. The assets acquired will be integrated into the Group's existing production facilities and are specific to the Group's Schlage branded products.

In February 2018, the Group acquired 100% of QMI through one of its subsidiaries. QMI specializes in fire rated and non-fire rated steel and wooden doors, acoustic doors, and wooden cabinets, as well as fire rated curtain wall systems and access panels in Qatar, Saudi Arabia, Bahrain, Oman, Kuwait, the United Arab Emirates, and Africa. QMI will be incorporated into the Group's EMEIA segment.

In March 2018, the Group acquired 100% of AD Systems through one of its subsidiaries. AD Systems designs and manufactures high-performance interior and storefront door systems, specializing in sliding and acoustic solutions. AD Systems' portfolio includes sliding and swinging doors, perimeter frames, door hardware, gasketing, seals and sidelite panels. AD Systems has been incorporated into the Group's Americas segment.

Total consideration paid for these four acquisitions at closing was approximately \$271 million (net of cash acquired), with additional consideration approximating \$12 million to be paid subject to a retention and transition period for two of these acquisitions. Cash on hand was utilized to fund these acquisitions.

Based on the preliminary allocation of the aggregate purchase price to assets acquired and liabilities assumed for these acquisitions, approximately \$1 million has been allocated to net working capital, approximately \$26 million to long-term tangible assets, approximately \$150 million to indefinite-lived and finite-lived intangible assets, and the remaining approximately \$106 million to goodwill. Goodwill is expected to be deductible for tax purposes.

Directors and Secretary

The names of the persons who were directors or secretary at any time during the year ended 31 December 2017 are set out below.

David D. Petratis (Appointed 1 December 2013) Kirk S. Hachigian (Appointed 17 November 2013) Michael J. Chesser (Appointed 1 December 2013 and retired 7 February 2018) Martin E. Welch III (Appointed 1 December 2013) Carla Cico (Appointed 1 December 2013) Dean Schaffer (Appointed 9 April 2014) Nicole Parent Haughey (Appointed 6 September 2017)

Samuel W. Sheek - Company Secretary (Appointed 11 June 2014)

Directors' and Secretary's Interests in Shares

No director, the company secretary or any member of their immediate families had any interest in shares or debentures of any subsidiary. Directors' remuneration is set forth in Note 10 to the Consolidated Financial Statements. The beneficial interests, including the interests of spouses and minor children, of the directors and secretaries in office at 31 December (or date of appointment if later) in the share capital of Allegion plc pursuant to section 329 of the Companies Act 2014, are presented in the table below:

	At 31 December 2017		At 31 D	ecember 2016
Directors	Shares	Options and Awards	Shares	Options and Awards
David D. Petratis	158,105	241,414	83,912	268,047
Kirk S. Hachigian	3,785	1,273	3,030	1,025
Michael J. Chesser	3,720	1,273	2,991	1,025
Martin E. Welch III	3,733	1,273	3,004	1,025
Carla Cico	3,116	1,273	2,539	1,025
Dean Schaffer	3,623	1,273	2,868	1,025
Nicole Parent Haughey	_	—	—	_
Secretaries				
Samuel W. Sheek	509	9,700	4,255	15,086

Political Donations

No political contributions that require disclosure under s26 (1) Electoral Act 1997 (as amended) were made during the financial year.

Subsidiary Companies and Associates

Information regarding subsidiary undertakings and associates are provided in Note 37 to the Consolidated Financial Statements.

Going Concern

The Board of Directors has formed a judgment at the time of approving the financial statements that there is a reasonable expectation that the Group and the Parent Company have adequate resources to continue in operational existence for the foreseeable future. In arriving at this conclusion the Board has taken account of current and anticipated trading performance, together with the current and anticipated levels of net debt and the availability of the committed borrowing facilities. For this reason, the going concern basis continues to be adopted in the preparation of the Group and the Parent Company financial statements.

Directors' Compliance Statement

The Directors acknowledge that they are responsible for securing the Company's compliance with its relevant obligations (as defined in the Companies Act 2014 (the "2014 Act") and, as required by Section 225 of the 2014 Act, the Directors confirm that:

(i) Allegion plc is committed to being compliant with all laws applicable to its operations. In particular, it is the policy of Allegion plc to comply with the Company's relevant obligations as defined in Section 225 of the 2014 Act. A compliance policy statement has been drawn up by the Company in accordance with Section 225(3)(a) of the Act setting out the Company's policies.

(ii) appropriate arrangements and structures are in place that, in our opinion, are designed to secure compliance with the Company's relevant obligations.

(iii) during the financial year ended 31 December 2017, the arrangements and structures referred to above were reviewed.

Disclosure of Information to Auditors

The directors in office at the date of this report have each confirmed that:

- As far as he/she is aware, there is no relevant audit information of which the Company's statutory auditors are unaware; and
- He/she has taken all the steps that he/she ought to have taken as a director in order to make himself/herself aware of any relevant audit information and to establish that the Company's statutory auditors are aware of that information.

Audit Committee

The Group established an Audit and Finance Committee in 2013. Refer to the paragraph above on accounting records for further details on the function and responsibility of the Audit and Finance Committee.

Auditors

The Auditor, PricewaterhouseCoopers, has indicated their willingness to continue in office, and a resolution that they be reappointed will be proposed at the Annual General Meeting.

AGM

The Annual General Meeting of the Group will take place at the Shelbourne Hotel located at 27 St Stephen's Green, Dublin 2, Ireland on 5 June 2018, at 5.30 p.m. local time (12.30 p.m. EST). The notice of meeting and a description of the business to be transacted are available on the Group's website at www.allegion.com.

On behalf of the Directors

David D. Petratis

David D. Petratis Director Martin E. Welch III Martin E. Welch III Director

STATEMENT OF DIRECTORS' RESPONSIBILITIES

The directors are responsible for preparing the directors' report and the financial statements in accordance with Irish law.

Irish law requires the directors to prepare financial statements for each financial year that give a true and fair view of the consolidated and Company's assets, liabilities and financial position as at the end of the financial year and of the profit or loss of the group for the financial year. Under that law, the directors have prepared the Consolidated Financial Statements in accordance with U.S. accounting standards, as defined in Section 279 (1) of the Companies Act 2014, to the extent that the use of those principles in the preparation of the financial statements does not contravene any provision of the Companies Act or of any regulations made thereunder. Similarly, the directors have prepared the Parent Company Financial Statements in accordance with Generally Accepted Accounting Practice in Ireland (accounting standards issued by the Financial Reporting Council of the UK, including Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland and promulgated by the Institute of Chartered Accountants in Ireland and Irish law).

Under Irish law, the directors shall not approve the financial statements unless they are satisfied that they give a true and fair view of the Company's assets, liabilities and financial position as at the end of the financial year and the profit or loss of the Company for the financial year.

In preparing these financial statements, the directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state that the Consolidated Financial Statements of Allegion plc (the Parent Company) and its subsidiaries (the Group) comply with accounting principles generally accepted in the United States of America (U.S. GAAP) to the extent that they do not contravene Irish Company Law and that the stand alone entity financial statements of the Parent Company comply with accounting standards issued by the Financial Reporting Council of the UK, including Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland and promulgated by the Institute of Chartered Accountants in Ireland and Irish law;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Company will continue in business; and

The directors are responsible for keeping adequate accounting records that are sufficient to:

- correctly record and explain the transactions of the Company;
- enable, at any time, the assets, liabilities, financial position and profit or loss of the Company to be determined with reasonable accuracy; and
- enable the directors to ensure that the financial statements comply with the Companies Act 2014 and enable those financial statements to be audited.

The directors are also responsible for safeguarding the assets of the Company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The directors are responsible for the maintenance and integrity of the corporate and financial information included on the Company's website (www.allegion.com). Legislation in Ireland governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.



Independent auditors' report to the members of Allegion plc

Report on the audit of the financial statements

Opinion

In our opinion:

- Allegion plc's Consolidated Financial Statements and Parent Company Financial Statements (the "financial statements") give a true and fair view of the Group's and of the Parent Company's, assets, liabilities and financial position as at 31 December 2017 and of the Group's profit and cash flows for the year then ended;
- the Consolidated Financial Statements have been properly prepared in accordance with accounting principles generally accepted in the United States of America ("US GAAP") as defined in Section 279 of the Companies Act 2014, to the extent that the use of those principles in the preparation of the Group Financial Statements does not contravene any provision of Part 6 of the Companies Act 2014;
- the Parent Company Financial Statements have been properly prepared in accordance with Generally Accepted Accounting Practice in Ireland (accounting standards issued by the Financial Reporting Council of the UK, including Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland and promulgated by the Institute of Chartered Accountants in Ireland and Irish law); and
- the financial statements have been properly prepared in accordance with the requirements of the Companies Act 2014.

We have audited the financial statements, included within the Annual Report, which comprise:

- the Consolidated and Parent Company balance sheets as at 31 December 2017;
- the Consolidated Profit and Loss Account for the year then ended;
- the Consolidated Statement of Comprehensive Income for the year then ended;
- the Consolidated Reconciliation of Movements in Shareholders' Funds for the year then ended;
- the Parent Company Statement of Changes in Equity for the year then ended;
- the Consolidated Statement of Cash Flows for the year then ended; and
- the Notes to the Consolidated and Parent Company financial statements, which include a description of significant accounting policies.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (Ireland) ("ISAs (Ireland)") and applicable law. Our responsibilities under ISAs (Ireland) are further described in the Auditors' responsibilities for the audit of the financial statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence

We remained independent of the Group in accordance with the ethical requirements that are relevant to our audit of the financial statements in Ireland, which includes IAASA's Ethical Standard, as applicable to listed entities and we have fulfilled our other ethical responsibilities in accordance with these requirements.



Our audit approach

Overview

	 \$20 million - Consolidated Financial Statements Based on approximately 5% of profit before taxation.
Materiality	• \$45.0 million - Parent Company Financial Statements Based on approximately 1% of net assets. For group audit purposes, the lower group materiality of \$20 million was applied to all balances and transactions that did not eliminate on consolidation in the Consolidated Financial Statements.
Audit scope	• We conducted audit procedures on nine reporting components representing business units across the Group. We included these components due to their size or characteristics as well as to ensure appropriate audit coverage. Full scope audits were performed on three components and specified procedures were performed on the remaining six components.
Key audit matters	• Additionally, certain centralized Group functions, including treasury, taxation, equity and stock compensation, goodwill and intangible assets, pension and post retirement benefits, and consolidation and financial reporting were subject to full scope audit procedures.
	• Taken together, the components and Group functions where we performed our audit procedures accounts for 83% of Group turnover and 85% of Group total assets.
—	Valuation of goodwill.
	Valuation of defined benefit pension obligations.
	Recognition and measurement of deferred taxes.

The scope of our audit

As part of designing our audit, we determined materiality and assessed the risks of material misstatement in the financial statements. In particular, we looked at where the directors made subjective judgments, for example in respect of significant accounting estimates that involved making assumptions and considering future events that are inherently uncertain. As in all of our audits we also addressed the risk of management override of internal controls, including evaluating whether there was evidence of bias by management that represented a risk of material misstatement due to fraud.

Key audit matters

Key audit matters are those matters that, in the auditors' professional judgement, were of most significance in the audit of the financial statements of the current period and include the most significant assessed risks of material misstatement (whether or not due to fraud) identified by the auditors, including those which had the greatest effect on: the overall audit strategy; the allocation of resources in the audit; and directing the efforts of the engagement team. These matters, and any comments we make on the results of our procedures thereon, were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. This is not a complete list of all risks identified by our audit.

Key audit matter	How our audit addressed the key audit matter
Valuation of Goodwill Refer to pages 15 & 22 (Directors' Report), pages 47 & 48 ("Significant Accounting Policies") and Note 16 ("Intangible Assets"). The Group tests its Goodwill annually during the fourth quarter for impairment or when there is a significant change in events or circumstances that indicate that the fair value of an asset is more likely than not less than the carrying amount of the asset.	



Key audit matter	How our audit addressed the key audit matter
The Group's calculation of each reporting unit's estimated fair value is based on a combination of two valuation techniques, a discounted cash flow model (income approach) and a market adjusted multiple of earnings (market approach), with each method being weighted in the determination of the fair value of the reporting unit. Management uses external valuation specialists to assist in determining the fair value of the reporting units based on management's methodology and assumptions. Our audit focused on this area due to the significance of Goodwill to the Group's total assets at December 31, 2017 and because the impairment testing process is complex, requires management judgment, and is based on assumptions influenced by current and expected future market conditions. The assumptions referenced and considered by management for purposes of impairment testing are included on page 22 in the Directors' report. We focused on the forecasted turnover, forecasted profitability, terminal growth rates, discount rates, and market multiples assumptions used by management in its impairment testing as these elements of the impairment testing model were assessed to have the most significant impact.	 weighting of the fair value under the income approach and market approach and the assumptions (discount rate, terminal growth rate, market multiples, and peer group) used under each approach. We performed sensitivity analysis for each reporting unit to assist in the identification of significant assumptions, including assumptions specific to prospective financial information. We performed a retrospective review of prior period prospective financial information by comparing it to actual results in the current period in order to determine whether the Group's judgements and assumptions relating to the estimate indicated bias and were reasonable; We tested the reasonableness of prospective financial information by: considering whether the assumptions were consistent with historical trends; evaluating the reasonableness of projected growth rates by comparing the assumptions used to historical and projected growth rates and to comparable companies and analyst expectations for the industry; determining that macroeconomic trends and industry specific considerations have been incorporated into the projected financial information appropriately; and recalculating management's estimate based on its assumptions and other factors used.
Valuation of defined benefit pension obligations Refer to pages 13,14 & 16 (Directors' Report), page 49 ("Significant Accounting Policies"), and Note 27 ("Pensions and Post-retirement benefits other than pensions").	We tested management's controls over the valuation of the pension plan benefit obligation, which include control activities to address the reasonableness of the discount rates, rates of compensation increase and employee mortality estimates used in the valuation model.
The Group sponsors pension plans for various employees, with the most significant plans in the United Kingdom and United States. The Group's defined benefit projected benefit obligation as of the balance sheet date was \$713.8 million.	We evaluated the competency, capability, and objectivity of the actuaries engaged by management to assist in the valuation of defined benefit projected benefit obligations.
The assumptions referenced and considered by management for the purposes of determining the valuation of its defined benefit projected benefit obligation are included in Note 27 (Pensions and post-retirement benefits other than pensions). Management uses external actuaries hto assist in the valuation of defined benefit pension obligations. We focused on assessing the judgements required in determining the appropriate discount rates, rate of compensation increase, and employee mortality rates as these assumptions have a material impact on the determination of the valuation of the pension obligations.	 We utilized PwC actuarial experts to assist in evaluating whether the assumptions used in calculating the United Kingdom and United States pension plan benefit obligations were reasonable by performing the following: assessing whether rate of compensation increases and employee mortality rate assumptions were consistent with relevant industry or third-party benchmarks and where applicable the specifics of each plan; and considering whether the discount rates used were consistent with our internally developed models and relevant benchmarks.



Key audit matter

Recognition and measurement of deferred taxes

Refer to pages 14 & 16 (Directors' Report), page 48 ("Significant Accounting Policies"), and Note 11 ("Tax on profit on ordinary activities").

On December 22, 2017, H.R.1 "An Act to Provide for Reconciliation Pursuant to Titles II and V of the Concurrent Resolution on the Budget for Fiscal year 2018" (" US tax reform") was signed by the President of the United States and became enacted law.

In response to the passing of US tax reform, the Securities Exchange Commission staff issued Staff Accounting Bulletin - Income Tax Accounting Implications of the Tax Cuts and Jobs Act (SAB 118), which allows the recognition of provisional amounts during a one-year measurement period that is similar to the measurement period used when accounting for business combinations.

In total, the group has gross deferred tax assets of \$375.7 million and has recorded valuation allowances of \$312.9 million against its gross deferred taxes. Gross deferred tax liabilities as of December 31, 2017 were \$119.8 million.

Following the enactment, management assessed the tax reform impact and the guidance included within SAB 118 and recorded a provisional discrete tax charge of \$53.5 million, primarily related to:

- Provisional net charge of \$24.5 million related to the remeasurement of deferred tax accounts resulting from the reduction of the US Federal statutory tax rate from 35% to 21%.
- Provisional net charge of \$22.8 million due to the future recoverability of certain deferred tax balances.
- Provisional net charge for transition tax of \$5.0 million.

We focused on assessing the judgements required in determining the impact of US tax reform, the completeness and accuracy of the Company's accounting for the enactment of US tax reform, and determining whether the accounting and disclosure for the impact of US tax reform was in accordance with the relevant accounting standards and SAB 118.

Additionally, we focused on the recoverability of deferred tax assets and the related level of valuation allowance required as it involves significant judgment regarding the likelihood of the recoverability of deferred tax assets.

How our audit addressed the key audit matter

We tested management's controls over the accounting impacts of US tax reform and deferred taxes, which included control activities :

- to address the completeness of tax positions impacted by US tax reform;
- to review management's analysis on the key assumptions used in its estimates of accounts and positions impacted by US tax reform; and
- to review management's assessment of US tax reform's interaction with other specific controls, including its financial statement disclosures, assessment of tax positions, recoverability of deferred taxes, and reliability of data used in the provision process.

We utilized PwC taxation specialists to assist in evaluating the calculation and recoverability of deferred tax assets. We also utilized PwC taxation specialists to assist in auditing the impact of US tax reform by performing the following:

- testing the impact of the US tax rate change on deferred tax balances;
- testing the provisional deferred tax valuation allowance recorded related to interest limitation carryforwards and other adjustments; and
- testing the Company's calculation of its transition tax charge as required under new US tax reform.

How we tailored the audit scope

We tailored the scope of our audit to ensure that we performed enough work to be able to give an opinion on the financial statements as a whole, taking into account the structure of the Group, the accounting processes and controls, and the industry in which it operates.

The Group is structured along three geographic segments being Americas; Europe, Middle East, India and Africa ("EMEIA"); and Asia Pacific. Each operating segment provides security products and solutions through various brands resulting in a number of management reporting entities identified as components by the Group engagement team. The Consolidated Financial Statements are a consolidation of the aforementioned components. We considered the nature and extent of audit work that needs to be performed at each component to support our Group opinion whether by PwC Ireland group engagement team, PwC US group engagement team, or by other component auditors within other PwC network firms.



Three components were identified as significant components and full scope audits were performed at these components by the PwC US group engagement team. Based on our risk assessment, we allocated materiality levels and issued instructions to six additional components subjected to specified audit procedures on specific account balances, classes of transactions or disclosures to achieve the desired level of evidence on each account balance in the Group's Consolidated Financial Statements. Of the nine total components, five were audited by the PwC US group engagement team and four were audited by other component auditors within other PwC network firms. For those remaining components not selected for testing, the PwC US group engagement team under instruction from PwC Ireland group engagement team reviewed the Group's monitoring controls, which includes business performance reviews performed by geography leadership and the Group management and performed risk assessment procedures. Through full scope audits performed at three components, specified procedures audits performed at six components, and centralized Group functions and accounts tested by the PwC US group engagement team, we obtained audit coverage of 83% of Group turnover and 85% of Group total assets.

We also ensured that audit teams at the group and component levels included appropriate skills and competences that were needed for the audit, including in the areas of information technology, income taxes, valuations, and employee benefits.

Materiality

The scope of our audit was influenced by our application of materiality. We set certain quantitative thresholds for materiality. These, together with qualitative considerations, helped us to determine the scope of our audit and the nature, timing and extent of our audit procedures on the individual financial statement line items and disclosures and in evaluating the effect of misstatements, both individually and in aggregate on the financial statements as a whole.

	Consolidated Financial Statements	Parent Company Financial Statements
Overall materiality	\$20.0 million.	\$45.0 million.
How we determined it	Approximately 5% of profit before taxation ("PBT").	Approximately 1 % of net assets.
Rationale for benchmark applied	We believe that PBT is the key performance measure to assess the continuing performance of the Group.	The Parent Company is a holding company. Consequently, we consider that net assets is the most relevant measure to reflect the nature of its activities and transactions. For group audit purposes, we used the lower overall group materiality of \$20.0 million on any balances and transactions that do not eliminate on consolidation.

Based on our professional judgment, we determined materiality for the financial statements as a whole as follows:

For each component in the scope of our group audit, we allocated a materiality that is less than our overall group materiality. The range of materiality allocated across components was \$5.0 million to \$19.0 million.

We agreed with the Audit Committee that we would report to them misstatements identified during our audit above \$1.5 million (group and parent company audit) as well as misstatements below those amounts that, in our view, warranted reporting for qualitative reasons.



Conclusions relating to going concern

We have nothing to report in respect of the following matters in relation to which ISAs (Ireland) require us to report to you where:

- the directors' use of the going concern basis of accounting in the preparation of the financial statements is not appropriate; or
- the directors have not disclosed in the financial statements any identified material uncertainties that may cast significant doubt about the Group's or the Parent Company's ability to continue to adopt the going concern basis of accounting for a period of at least twelve months from the date when the financial statements are authorised for issue.

However, because not all future events or conditions can be predicted, this statement is not a guarantee as to the Group's or Parent Company's ability to continue as a going concern.

Reporting on other information

The other information comprises all of the information in the Annual Report other than the financial statements and our auditors' report thereon. The directors are responsible for the other information. Our opinion on the financial statements does not cover the other information and, accordingly, we do not express an audit opinion or, except to the extent otherwise explicitly stated in this report, any form of assurance thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If we identify an apparent material inconsistency or material misstatement, we are required to perform procedures to conclude whether there is a material misstatement of the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report based on these responsibilities.

With respect to the Directors' Report we also considered whether the disclosures required by the Companies Act 2014 have been included.

Based on the responsibilities described above and our work undertaken in the course of the audit, the Companies Act 2014 and ISAs (Ireland) require us to also report certain opinions and matters as described below:

- In our opinion, based on the work undertaken in the course of the audit, the information given in the Directors' Report for the year ended 31 December 2017 is consistent with the financial statements and has been prepared in accordance with the applicable legal requirements.
- Based on our knowledge and understanding of the company and its environment obtained in the course of the audit, we have not identified any material misstatements in the Directors' Report.

Responsibilities for the financial statements and the audit

Responsibilities of the directors for the financial statements

As explained more fully in the Statement of Directors' Responsibilities set out on page 32, the directors are responsible for the preparation of the financial statements in accordance with the applicable framework and for being satisfied that they give a true and fair view. The directors are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the Group's and the Parent Company' ability to continue as a going concern, disclosing as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate or to cease operations of the Group or the Parent Company, or have no realistic alternative but to do so.



Auditors' responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (Ireland) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. A further description of our responsibilities for the audit of the financial statements is located on the Irish Auditing and Accounting Supervisory Authority website at: www.iaasa.ie/getmedia/b2389013-1cf6-458b-9b8f-

a98202dc9c3a/Description_of_auditors_responsibilities_for_audit.pdf. This description forms part of our auditors' report.

Use of this report

This report, including the opinions, has been prepared for and only for the parent company's members as a body in accordance with section 391 of the Companies Act 2014 and for no other purpose. We do not, in giving these opinions, accept or assume responsibility for any other purpose or to any other person to whom this report is shown or into whose hands it may come save where expressly agreed by our prior consent in writing.

Other required reporting

Companies Act 2014 opinions on other matters

- We have obtained all the information and explanations which we consider necessary for the purposes of our audit.
- In our opinion the accounting records of the parent company were sufficient to permit the Parent Company Financial Statements to be readily and properly audited.
- The Parent Company's Financial Statements are in agreement with the accounting records.

Companies Act 2014 exception reporting

Directors' remuneration and transactions

Under the Companies Act 2014 we are required to report to you if, in our opinion, the disclosures of directors' remuneration and transactions specified by sections 305 to 312 of that Act have not been made. We have no exceptions to report arising from this responsibility.

Kevin Egan for and on behalf of PricewaterhouseCoopers Chartered Accountants and Statutory Audit Firm Dublin 5 April 2018

Allegion plc Consolidated Profit and Loss Account For the year ended 31 December

Gross profit $1,070.7$ 985.3 Distribution costs (335.8) (325.5) Administrative expenses (246.7) (234.3) Other operating expenses 4 (0.7) (2.0) (583.2) (561.8) Operating profit 487.5 423.5 Income from other financial assets 5 12.7 18.3 Other interest receivable and similar income 6 1.2 1.9		Note	2017	2016
Cost of sales $(1,337.5)$ $(1,252.7)$ Gross profit $1,070.7$ 985.3 Distribution costs (335.8) (325.5) Administrative expenses (246.7) (234.3) Other operating expenses 4 (0.7) (2.0) Operating profit 487.5 423.5 Income from other financial assets 5 12.7 18.3 Other interest receivable and similar income 6 1.2 1.9			\$ m	\$m
Gross profit $1,070.7$ 985.3 Distribution costs (335.8) (325.5) Administrative expenses (246.7) (234.3) Other operating expenses 4 (0.7) (2.0) (583.2) (561.8) Operating profit 487.5 423.5 Income from other financial assets 5 12.7 18.3 Other interest receivable and similar income 6 1.2 1.9	Turnover	3	2,408.2	2,238.0
Distribution costs (335.8) (325.5) Administrative expenses (246.7) (234.3) Other operating expenses 4 (0.7) (2.0) (583.2) (561.8) Operating profit 487.5 423.5 Income from other financial assets 5 12.7 18.3 Other interest receivable and similar income 6 1.2 1.9	Cost of sales	_	(1,337.5)	(1,252.7)
Administrative expenses (246.7) (234.3) Other operating expenses4 (0.7) (2.0) (583.2) (561.8) Operating profit 487.5423.5Income from other financial assets5 12.7 18.3 Other interest receivable and similar income6 1.2 1.9	Gross profit		1,070.7	985.3
Other operating expenses4 (0.7) (2.0) Operating profit (583.2) (561.8) Operating profit 487.5 423.5 Income from other financial assets 5 12.7 18.3 Other interest receivable and similar income 6 1.2 1.9	Distribution costs		(335.8)	(325.5)
Operating profit(583.2)Income from other financial assets512.718.3Other interest receivable and similar income61.21.9	Administrative expenses		(246.7)	(234.3)
Operating profit487.5423.5Income from other financial assets512.718.3Other interest receivable and similar income61.21.9	Other operating expenses	4	(0.7)	(2.0)
Income from other financial assets512.718.3Other interest receivable and similar income61.21.9		_	(583.2)	(561.8)
Other interest receivable and similar income 6 1.2 1.9	Operating profit		487.5	423.5
	Income from other financial assets	5	12.7	18.3
	Other interest receivable and similar income	6	1.2	1.9
Interest payable and similar charges 7 (105.7) (64.3)	Interest payable and similar charges	7	(105.7)	(64.3)
Loss on divestitures 8 — (84.4)	Loss on divestitures	8		(84.4)
Profit on ordinary activities before taxation9395.7295.0	Profit on ordinary activities before taxation	9 -	395.7	295.0
Tax on profit on ordinary activities11(119.0)(63.8)	Tax on profit on ordinary activities	11	(119.0)	(63.8)
Profit on ordinary activities after taxation276.7231.2	Profit on ordinary activities after taxation		276.7	231.2
Attributable to non-controlling interests14(3.4)(2.1)	Attributable to non-controlling interests	14	(3.4)	(2.1)
Profit for the financial year273.3229.1	Profit for the financial year	-	273.3	229.1
Profit per share attributable to Allegion plc ordinary shareholders:	Profit per share attributable to Allegion plc ordinary shareholders:			
Basic: 15 s s		15	\$	\$
Profit for the financial year 2.87 2.39	Profit for the financial year	-	2.87	2.39
Diluted: 15	-	15		
Profit for the financial year2.852.36	Profit for the financial year	-	2.85	2.36

Allegion plc Consolidated Statement of Comprehensive Income For the year ended 31 December

	Note	2017	2016
		\$m	\$m
Profit on ordinary activities after taxation		276.7	231.2
Other comprehensive income, net of tax:			
Foreign currency items		97.5	(40.7)
Cash flow hedges and marketable securities:			
Unrealized net gains arising during year		5.2	9.7
Net gains reclassified to profit and loss account		(4.7)	(19.0)
Tax expense		(0.1)	(1.3)
Total cash flow hedges and marketable securities, net of tax	_	0.4	(10.6)
Pension and OPEB items:			
Net actuarial gains for the year		25.5	3.1
Amortization reclassified to profit and loss account		5.2	6.0
Settlements/curtailments reclassified to profit and loss account		0.1	0.3
Currency translation and other		0.7	14.4
Tax expense		(12.2)	(5.0)
Total pension and OPEB items:	_	19.3	18.8
Other comprehensive income (loss), net of tax		117.2	(32.5)
Total comprehensive income for the financial year, net of tax	_	393.9	198.7
Less: Total comprehensive income attributable to non-controlling interests		2.8	1.7
Total comprehensive income for the financial year attributable to Allegion plc	_	391.1	197.0

Allegion plc Consolidated Balance Sheet At 31 December

	Note	2017	2016
		\$ m	\$m
Fixed assets Intangible assets	16	1,155.5	1,074.2
Tangible assets	18	252.2	226.6
Financial assets	18	16.2	220.0
	-	1,423.9	1,325.1
Current assets		,	,
Stock	19	239.8	220.6
Debtors	20	325.8	294.1
Cash at bank and in hand	21	466.2	312.4
Assets held for sale		0.9	2.2
	-	1,032.7	829.3
Debtors: amounts falling due after more than one year	22	85.4	93.0
Creditors: amounts falling due within one year	23	(415.8)	(398.2)
Net current assets	-	616.9	431.1
Total assets less current liabilities		2,126.2	1,849.2
Creditors: amounts falling due after more than one year	24	(1,442.3)	(1,415.6)
Net assets excluding provisions for liabilities		683.9	433.6
Provisions for liabilities	29	(278.4)	(317.2)
Net assets including provisions for liabilities and charges	-	405.5	116.4
Capital and reserves			
Called up share capital presented as equity	32	1.0	1.0
Share premium account	33	62.2	55.0
Other reserves	33	(92.4)	(219.6)
Profit and loss account	33	430.8	276.9
Equity shareholders' funds	-	401.6	113.3
Non-controlling interests		3.9	3.1
	-	405.5	116.4

Approved by the Board of Directors on 4 April 2018 and signed on its behalf by:

David D. Petratis David D. Petratis Director Martin E. Welch III Martin E. Welch III Director

Allegion plc Consolidated Reconciliation of Movements in Shareholders' Funds

	Total shareholders'	Called up sha	ip share capital Share premium Profit and loss		Duofit and loss		Non- controlling
	equity	Amount	Shares	Share premium account	account	Other reserves	interest
	\$ m	\$m	Number	\$ m	\$ m	\$ m	\$m
Balance at 1 January 2016	29.7	1.0	96.0	49.2	179.1	(203.7)	4.1
Profit for the year	231.2		_	_	229.1		2.1
Other comprehensive income (loss)	(32.5)	_	_	_	_	(32.1)	(0.4)
Shares issued under incentive stock plans	5.8	—	—	5.8	—	—	—
Repurchase of ordinary shares	(85.1)	_	(1.3)	_	(85.1)	_	_
Share-based compensation	16.6	_	0.6	—	_	16.6	_
Acquisition/divestiture of non-controlling interest	(0.4)		_	—	—	(0.4)	_
Dividends declared to non-controlling interests	(2.7)	_	_	—	_	_	(2.7)
Cash dividends declared (\$0.48 per share)	(46.0)	_	_	_	(46.0)	_	_
Other	(0.2)		_	_	(0.2)	_	
Balance at 31 December 2016	116.4	1.0	95.3	55.0	276.9	(219.6)	3.1
Cumulative effect of change in accounting principle	(5.0)		_	_	(5.0)	_	
Profit for the year	276.7	_	_	_	273.3	_	3.4
Other comprehensive income (loss)	117.2		_	—	—	117.8	(0.6)
Shares issued under incentive stock plans	7.2	_	_	7.2	_	_	_
Repurchase of ordinary shares	(60.0)		(0.8)	—	(60.0)	_	_
Share-based compensation	15.8	_	0.6	—	_	15.8	_
Dividends declared to non-controlling interests	(1.8)	_	_	_	_	_	(1.8)
Cash dividends declared (\$0.64 per share)	(60.9)		_	_	(60.9)	_	
Other	(0.1)		—	_	6.5	(6.4)	(0.2)
Balance at 31 December 2017	405.5	1.0	95.1	62.2	430.8	(92.4)	3.9

Allegion plc Consolidated Statement of Cash Flows For the year ended 31 December

	2017	2016
	\$m	\$m
Cash flows from operating activities:		
Profit on ordinary activities after taxation	276.7	231.2
Adjustments to arrive at net cash provided by operating activities:		
Debt extinguishment costs	43.1	
Depreciation and amortization	66.9	66.9
Share based compensation	16.2	16.6
Loss on divestitures	—	84.4
Gain on sale of marketable securities	—	(12.4)
(Gain)/loss on sale of tangible fixed assets	(0.1)	1.3
Equity earnings, net of dividends	(5.3)	(3.2)
Discretionary pension plan contribution	(50.0)	
Deferred income taxes	24.9	6.3
Other Items	3.0	(7.7)
Changes in other assets and liabilities		
(Increase) decrease in:		
Debtors	(22.7)	(19.8)
Stock	(4.4)	(15.6)
Debtors: amounts falling due after more than one year and financial assets	3.5	62.0
Increase (decrease) in:		
Creditors: amounts falling due within one year	0.4	3.4
Creditors: amounts falling due after more than one year	(5.0)	(35.9)
Net cash provided by operating activities	347.2	377.5
Cash flows from investing activities:		
Capital expenditures	(49.3)	(42.5)
Acquisition of businesses, net of cash acquired	(20.8)	(31.4)
Proceeds from sale of tangible fixed assets	3.1	0.1
Proceeds from sale of equity investment	15.6	
Proceeds/(payments) related to business dispositions	1.2	(4.3)
Proceeds from sale of marketable securities		14.1
Net cash used in investing activities	(50.2)	(64.0)
Cash flows from financing activities:	· · ·	
Short-term borrowings, net	(1.3)	(17.4)
Proceeds from revolving credit facility	165.0	
Proceeds from term facility	700.0	
Repayment of second amended credit facility	(856.3)	
Proceeds from issuance of senior notes	800.0	
Redemption of senior notes	(600.0)	
Payments of long-term debt	(197.3)	(47.0)
Net proceeds (repayments) in debt	10.1	(64.4)

Allegion plc Consolidated Statement of Cash Flows - (Continued)

	2017	2016
	\$m	\$m
Debt issuance costs	(9.5)	(0.3)
Redemption premium	(33.2)	
Dividends paid to ordinary shareholders	(60.9)	(46.0)
Dividends paid to non-controlling interests	(1.8)	(2.7)
Repurchase of ordinary shares	(60.0)	(85.1)
Proceeds from shares issued under incentive plans	7.2	5.8
Other, net	(2.8)	(3.3)
Net cash used in financing activities	(150.9)	(196.0)
Effect of exchange rate changes on cash at bank and in hand	7.7	(4.8)
Net increase on cash at bank and in hand	153.8	112.7
Cash at bank and in hand – beginning of year	312.4	199.7
Cash at bank and in hand – end of year	466.2	312.4

1. BASIS OF PREPARATION

Irish law requires the directors to prepare financial statements for each financial year that give a true and fair view of the consolidated and Group's assets, liabilities and financial position as at the end of the financial year and of the profit or loss of the Group for the financial year. Under that law, the directors have prepared the Consolidated Financial Statements in accordance with U.S. accounting standards, as defined in Section 279(1) of the Companies Act 2014, to the extent that the use of those principles in the preparation of the financial statements does not contravene any provision of the Companies Act or of any regulations made thereunder and the Parent Company Financial Statements in accordance with Generally Accepted Accounting Practice in Ireland (accounting standards issued by the Financial Reporting Council of the UK, and promulgated by the Institute of Chartered Accountants in Ireland and Irish law). The Consolidated Financial Statements are prepared in accordance with Irish Company Law, to present to the shareholders of Allegion plc and file with the Companies Registration Office in Ireland. Accordingly, these Consolidated Financial Statements include disclosures required by the Companies Act 2014 of Ireland in addition to those required under U.S. GAAP.

The Consolidated and Parent Company Financial Statements have been prepared on the going concern basis.

On 1 December 2013, Allegion became a stand-alone Group after Ingersoll-Rand plc ("Ingersoll Rand") completed the separation of its commercial and residential security businesses ("the Business") from the rest of Ingersoll Rand, via the transfer of the Business from Ingersoll Rand to Allegion and the issuance by Allegion of ordinary shares directly to Ingersoll Rand's shareholders (the "Spinoff"). As part of the Spinoff, Allegion issued one ordinary share for every three ordinary shares of Ingersoll Rand held of record as of 5:00 p.m., New York City time on 22 November 2013 in return for the entire share capital of the subsidiaries which owned all the assets and liabilities of the Business. Allegion ordinary shares trade under the symbol "ALLE" on the New York Stock Exchange. Allegion issued a total of approximately 96.0 million ordinary shares in the Spin-off. Under Irish Company Law, this transaction has been accounted for using the merger method of accounting in the Consolidated Financial Statements.

The profit attributable to equity shareholders dealt within the financial statements of the Company in 2017 was \$547.8 million (2016: loss of \$33.9 million). In accordance with section 304 of the Companies Act 2014, the Company is availing of the exemption from presenting its Individual Profit and Loss Account to the Annual General Meeting and from filing it with the Registrar of Companies.

The financial statements are presented in U.S. dollars.

2. SIGNIFICANT ACCOUNTING POLICIES

A summary of significant accounting policies used in the preparation of the accompanying Consolidated Financial Statements follows:

Accounting convention: These financial statements are prepared under the historical cost convention.

Basis of consolidation: The Consolidated Financial Statements include all majority-owned subsidiaries of the Group. A noncontrolling interest in a subsidiary is considered an ownership interest in a majority-owned subsidiary that is not attributable to the parent. The Group includes non-controlling interests as a component of total equity in the Consolidated Balance Sheet and the profit for the year attributable to non-controlling interest are presented as an adjustment from profit on ordinary activities after taxation used to arrive at profit for the financial year attributable to Allegion in the Consolidated Profit and Loss Account.

Partially-owned equity affiliates generally represent 20-50% ownership interests in investments and where we demonstrate significant influence, but do not have a controlling financial interest. Partially-owned equity affiliates are accounted for under the equity method. The Group is also required to consolidate variable interest entities in which it bears a majority of the risk to the entities' potential losses or stands to gain from a majority of the entities' expected returns. Transactions between the Group and Ingersoll Rand and its affiliates are herein referred to as "related party" or "affiliated" transactions. Intercompany accounts and transactions have been eliminated.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

Use of estimates: The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosures of contingent assets and liabilities at the date of the financial statements as well as the reported amounts of turnover and expenses during the reporting year. Estimates are based on several factors including the facts and circumstances available at the time the estimates are made, historical experience, risk of loss, general economic conditions and trends, and the assessment of the probable future outcome. Some of the more significant estimates include accounting for doubtful accounts, useful lives of tangible assets and intangible assets, purchase price allocations of acquired businesses, valuation of assets including goodwill and other intangible assets, product warranties, sales allowances, pension plans, postretirement benefits other than pensions, taxes, environmental costs, product liability and other contingencies. Actual results could differ from those estimates. Estimates and assumptions are reviewed periodically, and the effects of changes, if any, are reflected in the Consolidated Profit and Loss Account in the year that they are determined.

Currency translation: Assets and liabilities where the functional currency is not the U.S. dollar, have been translated at yearend exchange rates, and income and expense accounts have been translated using average exchange rates throughout the year. Adjustments resulting from the process of translating an entity's financial statements into the U.S. dollar have been recorded in the equity section of the Consolidated Balance Sheet within other reserves. Transactions that are denominated in a currency other than an entity's functional currency are subject to changes in exchange rates with the resulting gains and losses recorded within profit on ordinary activities before taxation.

Cash at bank and in hand: Cash at bank and in hand include cash on hand, demand deposits and all highly liquid investments with original maturities at the time of purchase of three months or less.

Stock: Stock is stated at the lower of cost and net realizable value using the first-in first-out (FIFO) method.

Allowance for doubtful accounts: The Group has provided an allowance for doubtful accounts reserve which represents the best estimate of probable loss inherent in the Group's debtor portfolio. Changes in the financial condition of customers or other unanticipated events, which may affect their ability to make payments, could result in charges for additional allowances exceeding the Group's estimates. The Group's estimates are influenced by the following considerations: a continuing credit evaluation of our customers' financial condition; debtors aging; and historical loss experience. The Group reserved \$2.8 million and \$2.7 million for doubtful accounts as of 31 December 2017 and 2016, respectively.

Tangible fixed assets: Tangible fixed assets are stated at cost, less accumulated depreciation. Assets placed in service are recorded at cost and depreciated using the straight-line method over the estimated useful life of the asset except for leasehold improvements, which are depreciated over the shorter of their economic useful life or their lease term. The range of useful lives used to depreciate tangible fixed assets is as follows:

Buildings	10	to	50 years
Machinery and equipment	2	to	12 years
Vehicles	3	to	6 years
Fixtures and Fittings	5	to	10 years
Software	2	to	7 years

Repair and maintenance costs that do not extend the useful life of the asset are charged against earnings as incurred. Major replacements and significant improvements that increase asset values and extend useful lives are capitalized.

The Group assesses the recoverability of the carrying value of its tangible fixed assets whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. Recoverability is measured by a comparison of the carrying amount of an asset to the future net undiscounted cash flows expected to be generated by the asset. If the undiscounted cash flows are less than the carrying amount of the asset, an impairment loss is recognized for the amount by which the carrying value of the asset exceeds the fair value of the assets.

Goodwill and intangible assets: The Group records as goodwill the excess of the purchase price of an acquired business over the fair value of the net assets acquired.

Irish company law requires goodwill and other fixed assets to be written off over a time period which does not exceed their useful life. Consistent with U.S. GAAP, the Group does not amortize goodwill and certain intangibles over an arbitrary period as they are considered to have an indefinite life. In accordance with U.S. GAAP, goodwill and other indefinite-lived intangible assets are tested and reviewed annually for impairment during the fourth quarter or whenever there is a significant change in events or circumstances that indicate that the fair value of the asset is more likely than not less than the carrying amount of the reporting unit or indefinite-lived intangible asset.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

Recoverability of goodwill is measured at the reporting unit level. The carrying amount of the reporting unit is compared to its estimated fair value. If the estimated fair value of a reporting unit exceeds its carrying amount, goodwill of the reporting unit is not impaired. To the extent that the carrying value of the reporting unit exceeds its estimated fair value, a goodwill impairment charge will be recognized for the amount by which the carrying value of the reporting unit exceeds its fair value, not to exceed the carrying amount of goodwill. Estimated fair value of the Group's reporting units is based on two valuation techniques, a discounted cash flow model (income approach) and a market adjusted multiple of earnings and turnover (market approach), with each method being weighted in the calculation.

Recoverability of other intangible assets with indefinite useful lives (i.e. Trademarks) is determined on a relief from royalty methodology (income approach), which is based on the implied royalty paid, at an appropriate discount rate, to license the use of an asset rather than owning the asset. The present value of the after-tax cost savings (i.e. royalty relief) indicates the estimated fair value of the asset. Any excess of the carrying value over the estimated fair value is recognized as an impairment loss equal to that excess.

Intangible assets such as patents, customer-related intangible assets and other intangible assets with finite useful lives are amortized on a straight-line basis over their estimated economic lives. The weighted-average useful lives approximate the following:

Customer relationships	25 years
Trademarks	25 years
Completed technology/patents	10 years
Other	25 years

Recoverability of intangible assets with finite useful lives is assessed in the same manner as tangible fixed assets as described above.

Taxation: The calculation of the Group's income taxes involves considerable judgment and the use of both estimates and allocations. Deferred tax assets and liabilities are determined based on temporary differences between financial reporting and tax bases of assets and liabilities, applying enacted tax rates expected to be in effect for the year in which the differences are expected to reverse. The Group recognizes future tax benefits, such as net operating losses and tax credits, to the extent that realizing these benefits is considered in its judgment to be more likely than not. The Group regularly reviews the recoverability of its deferred tax assets considering its historic profitability, projected future taxable income, timing of the reversals of existing temporary differences and the feasibility of its tax planning strategies. Where appropriate, the Group records a valuation allowance with respect to a future tax benefit.

Cash paid for income taxes, net of refunds for the twelve months ended 31 December 2017 and 2016 was \$86.7 million and \$10.4 million, respectively. The 2016 net cash income taxes paid includes a refund of \$46.2 million received from the Canadian Tax Authorities.

On December 22, 2017, the President of the United States signed comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Reform Act"), which is discussed in greater detail in Note 11. The Tax Reform Act includes a provision termed the global intangible low-taxed income ("GILTI"). The GILTI provisions will require the Group to include in its U.S. income tax return foreign subsidiary earnings in excess of an allowable return on the non-U.S. subsidiary's tangible assets. Although it is uncertain whether we will incur a GILTI liability, to the extent a GILTI tax is incurred, the Group has elected to account for GILTI tax in the year in which it is incurred.

Product warranties: Standard product warranty accruals are recorded at the time of sale and are estimated based upon product warranty terms and historical experience. The Group assesses the adequacy of its liabilities and will make adjustments as necessary based on known or anticipated warranty claims, or as new information becomes available. Refer to Note 30 for further details of product warranties.

Turnover recognition: Turnover is recognized and earned when all of the following criteria are satisfied: (a) persuasive evidence of a sales arrangement exists; (b) the price is fixed or determinable; (c) collectability is reasonably assured; and (d) delivery has occurred or service has been rendered. Delivery generally occurs when the title and the risks and rewards of ownership have substantially transferred to the customer. Both the persuasive evidence of a sales arrangement and fixed or determinable price criteria are deemed to be satisfied upon receipt of an executed and legally binding sales agreement or contract that clearly defines the terms and conditions of the transaction including the respective obligations of the parties. If the defined terms and conditions allow variability in all or a component of the price, turnover is not recognized until such time that the price becomes fixed or determinable. At the point of sale, the Group validates the existence of an enforceable claim that requires payment within a reasonable amount of time and assesses the collectability of that claim. If collectability is not deemed to be reasonably assured, then turnover recognition is deferred until such time that collectability becomes probable or cash is received.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

Delivery is not considered to have occurred until the customer has taken title and assumed the risks and rewards of ownership. Service and installation turnover are recognized when earned. In some instances, customer acceptance provisions are included in sales arrangements to give the buyer the ability to ensure the delivered product or service meets the criteria established in the order. In these instances, turnover recognition is deferred until the acceptance terms specified in the arrangement are fulfilled through customer acceptance or a demonstration that established criteria have been satisfied. If uncertainty exists about customer acceptance, turnover is not recognized until acceptance has occurred.

The Group offers various sales incentive programs to our customers, dealers, and distributors. Sales incentive programs do not preclude turnover recognition, but do require an accrual for the Group's best estimate of expected activity. Examples of the sales incentives that are accrued for as a contra receivable and sales deduction at the point of sale include, but are not limited to, discounts (i.e. net 30 type), coupons, and rebates where the customer does not have to provide any additional requirements to receive the discount. Sales returns and customer disputes involving a question of quantity or price are also accounted for as a reduction in turnover and a contra receivable. At 31 December 2017 and 2016, the Group had a customer claim accrual (contra receivable) of \$32.5 million and \$29.0 million, respectively. All other incentives or incentive programs where the customer is required to reach a certain level of purchases, remain a customer for a certain period, provide a rebate form or is subject to additional requirements are accounted for as a reduction of turnover and establishment of a liability. At 31 December 2017 and 2016, the Group had a sales incentive accrual of \$31.8 million and \$29.6 million, respectively. Each of these accruals represents the Group's best estimate it expects to pay related to previously sold units based on historical claim experience. These estimates are reviewed regularly for accuracy. If updated information or actual amounts are different from previous estimates, the revisions are included in the Group's results for the year in which they become known. Historically, the aggregate differences, if any, between the Group's estimates and actual amounts in any year have not had a material impact on the Consolidated Financial Statements.

Environmental costs: The Group is subject to laws and regulations relating to protecting the environment. Environmental expenditures relating to current operations are expensed or capitalized as appropriate. Expenditures relating to existing conditions caused by past operations, which do not contribute to current or future turnover, is expensed. Liabilities for remediation costs are recorded when they are probable and can be reasonably estimated, generally no later than the completion of feasibility studies or the Group's commitment to a plan of action. The assessment of this liability, which is calculated based on existing technology, does not reflect any offset for possible recoveries from insurance companies, and is not discounted. Refer to Note 29 and Note 30 for further details of environmental matters.

Research and development costs: The Group conducts research and development activities for the purpose of developing and improving new products and services. These expenditures are expensed when incurred. For the years ended 31 December 2017 and 2016, these expenditures amounted to approximately \$48.3 million and \$47.3 million respectively and consist of salaries, wages, benefits, building costs and other overhead expenses.

Software costs: The Group capitalizes certain qualified internal-use software costs during the application development stage and subsequently amortizes those costs over the software's useful life, which ranges from 2 to 7 years. Refer to Note 17 for further details on software.

Employee benefit plans: The Group provides a range of benefits, including pensions, postretirement and postemployment benefits to eligible current and former employees. Determining the cost associated with such benefits is dependent on various actuarial assumptions, including discount rates, expected return on plan assets, compensation increases, employee mortality, turnover rates, and healthcare cost trend rates. Actuaries perform the required calculations to determine expense in accordance with U.S. GAAP. Actual results may differ from the actuarial assumptions and are generally accumulated into other reserves and amortized into the profit and loss over future periods. The Group reviews its actuarial assumptions at each measurement date and makes modifications to the assumptions based on current rates and trends, if appropriate. Refer to Note 27 for further details on employee benefit plans.

Provisions: Provisions are recorded for various contingencies arising in the normal course of business, including litigation and administrative proceedings, environmental matters, product liability, product warranty, worker's compensation and other claims. The Group has recorded reserves in the financial statements related to these matters, which are developed using inputs derived from actuarial estimates and historical and anticipated experience data depending on the nature of the reserve and, in certain instances, with consultation of legal counsel, internal and external consultants and engineers. Subject to the uncertainties inherent in estimating future costs for these types of liabilities, the Group believes its estimated reserves are reasonable and does not believe the final determination of the liabilities with respect to these matters would have a material effect on the financial condition, results of operations, liquidity or cash flows of the Group for any year. Refer to Notes 29 and 30 for further details on provisions.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

Derivative instruments: The Group periodically enters into cash flow and other derivative transactions to specifically hedge exposure to various risks related to currency and interest rates. The Group recognizes all derivatives on the Consolidated Balance Sheet at their fair value as either assets or liabilities. For designated cash flow hedges, the effective portion of the changes in fair value of the derivative contract are recorded in other reserves, net of taxes, and are recognized in the Consolidated Profit and Loss Account at the time earnings are affected by the hedged transaction. For other derivative transactions, the changes in the fair value of the derivative contract are immediately recognized in the Consolidated Profit and Loss Account. Refer to Note 26 for further details on derivative instruments.

Dividends: Dividend income is recognized when the right to receive the payment is established. Interim dividends on ordinary shares to the Group's external shareholders are recognized in the financial statements when they are paid. In accordance with U.S. GAAP, interim dividends to non-controlling interests are recognized as a liability in the year in which they are declared.

Recently Adopted Accounting Pronouncements:

In July 2015, the FASB issued ASU 2015-11, "Inventory (Topic 330): Simplifying the Measurement of Inventory." ASU 2015-11 changes the measurement principle for stock from the lower of cost or market to the lower of cost and net realizable value. The standard defines net realizable value as estimated selling prices in the ordinary course of business less reasonably predictable costs of completion, disposal and transportation. The Group adopted the provisions of ASU 2015-11 on 1 January 2017. The adoption of ASU 2015-11 did not have a material impact on the Consolidated Financial Statements.

In October 2016, the FASB issued ASU 2016-16, "Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory." This update addresses the income tax consequences of intra-entity transfers of assets other than stock. Previously, U.S. GAAP prohibited the recognition of current and deferred income taxes for an intra-entity asset transfer until the asset has been sold to an outside party. In addition, interpretations of this guidance have developed in practice over the years for transfers of certain intangible and tangible assets. The amendments in the update will require recognition of current and deferred income taxes resulting from an intra-entity transfer of an asset other than stock when the transfer occurs. The Group elected to early adopt on 1 January 2017. As a result, during the first quarter of 2017, the Group recognized a cumulative effect within the profit and loss account of \$5.0 million with an offset to debtors and financial assets.

In January 2017, the FASB issued ASU 2017-04, "Intangibles– Goodwill and Other (Topic 350): Simplifying the Accounting for Goodwill Impairment." The amended guidance simplifies the accounting for goodwill impairment for all entities by eliminating the requirement to perform a hypothetical purchase price allocation. A goodwill impairment charge will now be recognized for the amount by which the carrying value of a reporting unit exceeds its fair value, not to exceed the carrying amount of goodwill. The ASU will be effective for fiscal years beginning after 15 December 2019. Early adoption is permitted for any impairment tests after 1 January 2017. The Group elected to early adopt on 1 October 2017; however, this new standard did not impact our annual impairment test performed on goodwill as of 1 October 2017.

Recently Issued Accounting Pronouncements:

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers" (ASC 606). ASC 606 is a single, comprehensive turnover recognition model for all contracts with customers. The model is based on changes in contract assets (rights to receive consideration) and liabilities (obligations to provide a good or perform a service). Turnover is recognized based on the satisfaction of performance obligations, which occurs when control of a good or service transfers to a customer. ASC 606 contains expanded disclosure requirements relating to the nature, amount, timing, and uncertainty of turnover and cash flows arising from contracts with customers. Entities may use a full retrospective approach or report the cumulative effect as of the date of adoption ("modified retrospective method"). The FASB has also issued the following standards which clarify ASU 2014-09: ASU 2017-14, Revenue Recognition, Revenue from Contracts with Customers: Amendments to SEC Paragraphs Pursuant to Staff Accounting Bulletin No. 116 and SEC Release No. 33-10403, ASU 2017-13, Revenue Recognition, Revenue from Contracts with Customers: Amendments to SEC Paragraphs Pursuant to the Staff Announcement at the 20 July 2017 EITF Meeting and Rescission of Prior SEC Staff Announcements and Observer Comments, ASU 2016-20, Revenue from Contracts with Customers: Technical Corrections and Improvements, ASU 2016-12, Revenue from Contracts with Customers: Narrow-Scope Improvements and Practical Expedients and ASU 2016-10, Revenue from Contracts with Customers: Identifying Performance Obligations and Licensing. The Group adopted each of these standards on 1 January 2018 on a modified retrospective basis. The Group has completed an assessment of the new standard's impact and determined the new standards will not have a material impact on the Group's Consolidated Profit and Loss Account, Balance Sheet or Statements of Cash Flows. The Group will expand the consolidated financial statement disclosures in order to comply with ASU 2014-09 starting in our first quarter 10-Q of 2018. The expanded disclosure will present in a tabular format the split by business segment between 1) product and service turnover, and 2) products transferred at a point in time and services transferred over time.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

In February 2016, the FASB issued ASU 2016-02, "Leases (Topic 842)." ASU 2016-02 requires the identification of arrangements that should be accounted for as leases by lessees. In general, for lease arrangements exceeding a twelve month term, these arrangements will be recognized as assets and liabilities on the balance sheet of the lessee. Under ASU 2016-02, a right-of-use asset and lease obligation will be recorded for all leases, whether operating or financing, while the profit and loss account will reflect lease expense for operating leases and amortization/interest payable for financing leases. The ASU is effective for annual periods beginning after 15 December 2018, and interim periods within those annual periods. Early adoption is permitted. ASU 2016-02 is required to be applied with a modified retrospective approach to each prior reporting period presented with various optional practical expedients. The Group is continuing to assess what impact ASU 2016-02 will have on the Consolidated Financial Statements; however, the Group anticipates that this adoption will result in a significant gross-up of assets and liabilities on its Consolidated Balance Sheets and will require changes to its systems and processes.

In June 2016, the FASB issued ASU 2016-13, "Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments." The new guidance introduces an approach based on expected losses to estimate credit losses on certain types of financial instruments. The ASU will be effective for fiscal years beginning after 15 December 2019, including interim periods within those fiscal years. Early adoption is permitted. The Group is assessing what impact ASU 2016-13 will have on the Consolidated Financial Statements.

In August 2016, the FASB issued ASU 2016-15, "Statement of Cash Flows (Topic 230): Clarification of Certain Cash Receipts and Cash Payments." ASU 2016-15 eliminates the diversity in practice related to the classification of certain cash receipts and payments in the statement of cash flows, by adding or clarifying guidance on eight specific cash flow issues. The ASU will be effective for annual and interim reporting periods beginning after 15 December 2017, and as such, the Group adopted ASU 2016-15 on 1 January 2018. The amendments in this update will be applied retrospectively to all periods presented, beginning in 2018, unless deemed impracticable, in which case, prospective application is permitted. The Group does not expect the adoption of this standard to have a material impact on the Consolidated Financial Statements.

In January 2017, the FASB issued ASU No. 2017-01, "Business Combinations (Topic 805): Clarifying the Definition of a Business." This update provides guidance to assist companies in evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The update provides a more robust framework to use in determining when a set of transferred assets and activities is a business. This ASU is effective for annual and interim reporting periods beginning after 15 December 2017, and requires prospective adoption. The Group adopted ASU 2017-01 on 1 January 2018. The Group does not expect the adoption of this standard to have a material impact on the Consolidated Financial Statements.

In March 2017, the FASB issued ASU 2017-07, "Compensation—Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost." ASU 2017-07 requires that an employer report the service cost component in the same line item or items as other compensation costs arising from services rendered by the pertinent employees during the period. The other components of net benefit cost are required to be presented in the statement of comprehensive income separately from the service cost component and outside a subtotal of operating profit. ASU 2017-07 also allows only the service cost component to be eligible for capitalization when applicable (for example, as a cost of internally manufactured stock or a self-constructed asset). The ASU is effective for annual periods beginning after 15 December 2017, and as such, the Group adopted ASU 2017-07 on 1 January 2018. The ASU will be applied retrospectively for the presentation of the service cost component of net periodic pension cost and net periodic postretirement benefit cost in the Consolidated Profit and Loss Account and prospectively, on and after the effective date, for the capitalization of the service cost component of net periodic postretirement benefit in assets. The amendments allow a practical expedient that permits an employer to use the amounts disclosed in its pension and other postretirement benefit plan note for the prior comparative periods as the estimation basis for applying the retrospective presentation requirements. The Group intends to apply these practical expedients for prior period presentation. The Group does not believe the adoption of the new standard will have a material impact on the Group's Consolidated Financial Statements.

In August 2017, the FASB issued ASU 2017-12, "Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities." ASU 2017-12 addresses previous limitations on how an entity can designate the hedged risk in certain cash flow and fair value hedging relationships by expanding and refining hedge accounting for both nonfinancial and financial risk components and aligning the recognition and presentation of the effects of the hedging instrument and the hedged item in the financial statements. The ASU is effective for annual periods beginning after 15 December 2018, with early adoption permitted. The Group elected to early adopt the provisions of ASU 2017-12 on 1 January 2018. The amendments in this update will be applied to hedging relationships existing on the date of adoption. Presentation and disclosure amendments will be applied prospectively. The adoption of ASU 2017-12 is not expected to have a material impact on the Group's Consolidated Financial Statements.

3. BUSINESS SEGMENT INFORMATION

The Group classifies its business into the following three reportable segments based on industry and market focus: Americas, EMEIA, and Asia Pacific.

The Group largely evaluates performance based on segment operating profit and segment operating margins. Segment operating profit is the measure of profit and loss that the Group's chief operating decision maker uses to evaluate the financial performance of the business and as the basis for resource allocation, performance reviews, and compensation. For these reasons, the Group believes that segment operating profit represents the most relevant measure of segment profit and loss. The Group's chief operating decision maker may exclude certain charges or gains, such as corporate charges and other special charges, from operating profit to arrive at a segment operating profit that is a more meaningful measure of profit and loss upon which to base its operating decisions. The Group defines segment operating margin as segment operating profit as a percentage of turnover.

Operating profit excludes other operating expenses as discussed below in Note 4 to the Consolidated Financial Statements.

3. BUSINESS SEGMENT INFORMATION (Continued)

A summary of operations and balance sheet information by reportable segments for the years ended 31 December were as follows:

SmSmAmericas1,767.51,645.7Segment operating profit503.3448.1Segment operating margin28.5%27.2%Depreciation and amortization26.426.4Capital expenditures26.121.5Total segment assets872.4852.7ENEIATurnover52.5485.9Segment operating profit45.235.9Segment operating profit45.235.9Segment operating margin8.6%7.4%Depreciation and amortization28.627.6Capital expenditures17.113.6Total segment assets1,027.7886.2Segment operating profit2.56.1Segment operating profit9.56.1Segment operating profit9.56.1Segment operating profit9.56.1Segment operating profit9.56.1Segment operating profit9.56.1Segment operating margin2.4%2.5%Depreciation and amortization2.52.4Capital expenditures1.96.317.74Total segment assets196.317.74Total segment assets196.517.64.3Lores propeting profit from reportable segments55.8.0490.1Unallocated corporate expense6.9.556.4Unallocated corporate expense6.9.556.4Unallocated depreciation and amortization4.150.0Total turover2.5556.4Una		2017	2016
Turnover 1,767.5 1,645.7 Segment operating profit 503.3 448.1 Segment operating margin 26.4 26.4 Capital expenditures 26.1 21.5 Total segment assets 872.4 852.7 EMELA 523.5 485.9 Segment operating profit 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 7.4% Segment operating margin 9.5 6.1 Segment operating margin 2.5 2.4 Segment operating margin 2.5 2.4 Segment operating margin 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total segment assets 196.3 177.4 Total segment assets 15.5 1.1 <		\$m	\$m
Segment operating profit 503.3 448.1 Segment operating margin 28.5% 27.2% Depreciation and amortization 26.1 21.5 Total segment assets 872.4 852.7 ENELA 852.7 ENELA 523.5 485.9 Segment operating profit 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Segment operating profit 9.5 6.1 Segment operating margin 2.4 Capital expenditures 1.1 1.1 1.1 5 1.1 1.1 5 1.1 1.1 5 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 </td <td>Americas</td> <td></td> <td></td>	Americas		
Segment operating margin 28.5% 27.2% Depreciation and amortization 26.4 26.4 Capital expenditures 26.1 21.5 Total segment assets 872.4 852.7 EMEIA 7 485.9 Segment operating profit 45.2 35.9 Segment operating margin 28.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 1 117.2 106.4 Segment operating profit 9.5 6.1 1 Segment operating margin 8.1% 5.7% 1.027.7 886.2 Depreciation and amortization 2.5 2.4 2.38.0 1.001.3 1.7.4 106.4 Segment operating profit 9.5 6.1 1.5 1.1 1.1 1.5 1.1 Total segment assets 196.3 177.4 10dal segment assets 196.3 177.4 Tota	Turnover	1,767.5	1,645.7
Depreciation and amortization26.426.4Capital expenditures26.121.5Total segment assets872.4852.7EMELA	Segment operating profit	503.3	448.1
Capital expenditures 26.1 21.5 Total segment assets 872.4 852.7 EMEIA 523.5 485.9 Segment operating profit 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 7.4% Segment operating profit 9.5 6.1 Segment operating profit 9.5 6.1 Segment operating profit 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Capital expenditures 1.5 1.1 Total unover 2,408.2 2,238.0 Reconciliation to profit on ordinary activities before taxation 2.5 4.4 Operating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 Interest paya	Segment operating margin	28.5%	27.2%
Total segment assets872.4852.7EMELATurnover523.5485.9Segment operating profit45.235.9Segment operating margin8.6%7.4%Depreciation and amorization28.627.6Capital expenditures17.113.6Total segment assets1,027.7886.2Asia Pacific117.2106.4Segment operating profit9.56.1Segment operating margin2.52.4Capital expenditures1.51.1Turnover2.52.4Capital expenditures1.51.1Total segment assets196.3177.4Total segment assets196.3177.4Total segment assets196.3177.4Total segment assets196.3177.4Total turnover2.408.22.238.0Reconciliation to profit on ordinary activities before taxation395.7Operating profit from reportable segments69.864.6Interest payable and similar charges105.764.3Loss on divestitures-84.40.1Unallocated oppretation from reportable segments57.556.4Unallocated depreciation and amortization41.5050Total depreciation and a	Depreciation and amortization	26.4	26.4
EMEL Turnover 523.5 485.9 Segment operating profit 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 9.5 6.1 Turnover 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover 2.408.2 2.238.0 Reconciliation to profit on ordinary activities before taxation 105.7 64.3 Interest payable and similar charges 105.7 64.3 Loss on divestitures - 84.4 Other operating expense (13.2) (18.2)	Capital expenditures	26.1	21.5
Turnover 523.5 485.9 Segment operating margin 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 15 1.1 Total segment assets 196.3 177.4 Total segment assets 196.3 177.4 Total turnover 2.408.2 2.238.0 Reconciliation to profit on ordinary activities before taxation 105.7 64.3 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures — 84.4 Other operating expense (13.2) (18.2) Total profi	Total segment assets	872.4	852.7
Segment operating profit 45.2 35.9 Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets $1.027.7$ 8862.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover 2408.2 $2,238.0$ Reconciliation to profit on ordinary activities before taxation 99.8 Operating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $ 84.4$ Other operating expense 69.8 64.6 Interest payable and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 41.1 5.0 Total depreciation and amortization 41.6 61.6 Corporate capital expenditures 46.6 63.3 Total depreciation and amortization 41.6 63.3 Total depreciation and amortization 46.6 63.3 <td>EMEIA</td> <td></td> <td></td>	EMEIA		
Segment operating margin 8.6% 7.4% Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets $1,027.7$ 886.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total urnover $2,408.2$ $2,238.0$ Reconciliation to profit on ordinary activities before taxation 99.8 Operating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $ 84.4$ Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 41.1 5.0 Total depreciation and amortization 44.7 36.2 Corporate capital expenditures from reportable segments 44.6 6.3 Total depreciation and amortization 40.6 6.3 Total depreciation and amortization 45.6 331.1	Turnover	523.5	485.9
Depreciation and amortization 28.6 27.6 Capital expenditures 17.1 13.6 Total segment assets $1,027.7$ 886.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total segment assets 196.3 177.4 Total turnover $2,408.2$ $2,238.0$ Reconciliation to profit on ordinary activities before taxation 99.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $$ 84.4 Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization 4.1 5.0 Corporate expense 61.6 61.4 Unallocated depreciation and amortization 41.6 5.0 Total aprefit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization 4.1 5.0 Total appenditures 4.1 5.0 Total depreciation and amortization 4.1 5.0 Total appenditures from reportable segments 4.6 6.3 Total expenditures 4.6 6.3 5.5 Total expenditures 4.6 6.3 5.5 Total expenditures <td< td=""><td>Segment operating profit</td><td>45.2</td><td>35.9</td></td<>	Segment operating profit	45.2	35.9
Capital expenditures 17.1 13.6 Total segment assets 1,027.7 886.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover 2,408.2 2,238.0 Reconciliation to profit on ordinary activities before taxation 0perating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 64.6 105.7 64.3 Loss on divestitures - 84.4 0ther operating expense 105.7 64.3 Unallocated depreciation and amortization 395.7 295.0 295.0 105.7 56.4 Unallocated depreciation and amortization 4.1 5.0 50.6 10.4 10.6 61.4 Capital expenditures 61.6 61.4 5.5 56.4 10.4 50.5 56.4 10.4 50.5 56.4 10.4<	Segment operating margin	8.6%	7.4%
Total segment assets $1,027.7$ 886.2 Asia Pacific 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover $2.408.2$ $2,238.0$ Reconciliation to profit on ordinary activities before taxation 96.3 490.1 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $ 84.4$ 016.7 64.3 Other operating expense (13.2) (18.2) 725.0 75.5 56.4 Unallocated depreciation and amortization 395.7 295.0 75.5 56.4 Unallocated depreciation and amortization 61.6 61.4 73.2 75.5 56.4 Unallocated depreciation and amortization 61.6 61.4 63.3 73.5 56.4	Depreciation and amortization	28.6	27.6
Asia PacificTurnover 117.2 106.4 Segment operating profit 9.5 6.1 Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover $2,408.2$ $2,238.0$ Reconciliation to profit on ordinary activities before taxation 9.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $$ 84.4 Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 4.1 5.0 Total depreciation and amortization 61.6 61.4 Capital expenditures from reportable segments 44.7 36.2 Corporate capital expenditures 46.6 6.3 Total depreciation and amortization 41.6 6.3 Total capital expenditures from reportable segments 44.7 36.2 Corporate capital expenditures 49.3 42.5 Assets from reportable segments $2,096.4$ $1,916.3$ Unallocated assets (a) 445.6 331.1	Capital expenditures	17.1	13.6
Turnover117.2106.4Segment operating profit9.56.1Segment operating margin8.1%5.7%Depreciation and amortization2.52.4Capital expenditures1.51.1Total segment assets196.3177.4Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxationOperating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization61.661.4Capital expenditures from reportable segments57.556.4Unallocated depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Total segment assets	1,027.7	886.2
Segment operating profit9.56.1Segment operating margin 8.1% 5.7% Depreciation and amortization 2.5 2.4 Capital expenditures 1.5 1.1 Total segment assets 196.3 177.4 Total turnover $2,408.2$ $2,238.0$ Reconciliation to profit on ordinary activities before taxation 99.5 69.8 Operating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $$ 84.4 Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 61.6 61.4 Capital expenditures from reportable segments 44.7 36.2 Corporate capital expenditures 49.3 42.5 Assets from reportable segments $2,096.4$ $1,916.3$ Unallocated assets (a) 445.6 331.1	Asia Pacific		
Segment operating margin8.1%5.7%Depreciation and amortization2.52.4Capital expenditures1.51.1Total segment assets196.3177.4Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxation22,208.0Operating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures44.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Turnover	117.2	106.4
Depreciation and amortization2.52.4Capital expenditures1.51.1Total segment assets196.3177.4Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxationOperating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Segment operating profit	9.5	6.1
Capital expenditures1.51.1Total segment assets196.3177.4Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxation2Operating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Segment operating margin	8.1%	5.7%
Total segment assets196.3177.4Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxation2Operating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Depreciation and amortization	2.5	2.4
Total turnover2,408.22,238.0Reconciliation to profit on ordinary activities before taxationOperating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Capital expenditures	1.5	1.1
Reconciliation to profit on ordinary activities before taxationOperating profit from reportable segments558.0490.1Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Total segment assets	196.3	177.4
Operating profit from reportable segments 558.0 490.1 Unallocated corporate expense 69.8 64.6 Interest payable and similar charges 105.7 64.3 Loss on divestitures $ 84.4$ Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 4.1 5.0 Total depreciation and amortization 61.6 61.4 Capital expenditures from reportable segments 44.7 36.2 Corporate capital expenditures 4.6 6.3 Total capital expenditures 49.3 42.5 Assets from reportable segments $2,096.4$ $1,916.3$ Unallocated assets (a) 445.6 331.1	Total turnover	2,408.2	2,238.0
Unallocated corporate expense69.864.6Interest payable and similar charges105.764.3Loss on divestitures—84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Reconciliation to profit on ordinary activities before taxation		
Interest payable and similar charges 105.7 64.3 Loss on divestitures— 84.4 Other operating expense (13.2) (18.2) Total profit on ordinary activities before taxation 395.7 295.0 Depreciation and amortization from reportable segments 57.5 56.4 Unallocated depreciation and amortization 4.1 5.0 Total preciation and amortization 61.6 61.4 Capital expenditures from reportable segments 44.7 36.2 Corporate capital expenditures 4.6 6.3 Total capital expenditures 49.3 42.5 Assets from reportable segments $2,096.4$ $1,916.3$ Unallocated assets (a) 445.6 331.1	Operating profit from reportable segments	558.0	490.1
Loss on divestitures-84.4Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Unallocated corporate expense	69.8	64.6
Other operating expense(13.2)(18.2)Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Interest payable and similar charges	105.7	64.3
Total profit on ordinary activities before taxation395.7295.0Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Loss on divestitures	_	84.4
Depreciation and amortization from reportable segments57.556.4Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Other operating expense	(13.2)	(18.2)
Unallocated depreciation and amortization4.15.0Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Total profit on ordinary activities before taxation	395.7	295.0
Total depreciation and amortization61.661.4Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Depreciation and amortization from reportable segments	57.5	56.4
Capital expenditures from reportable segments44.736.2Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Unallocated depreciation and amortization	4.1	5.0
Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Total depreciation and amortization	61.6	61.4
Corporate capital expenditures4.66.3Total capital expenditures49.342.5Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Capital expenditures from reportable segments	44.7	36.2
Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1		4.6	6.3
Assets from reportable segments2,096.41,916.3Unallocated assets (a)445.6331.1	Total capital expenditures	49.3	42.5
Unallocated assets (a) 445.6 331.1	Assets from reportable segments	2,096.4	1,916.3
Total assets 2,542.0 2,247.4	Unallocated assets (a)	445.6	331.1
	Total assets	2,542.0	2,247.4

(a) Unallocated assets consists of investments in unconsolidated affiliates, tangible assets, deferred income taxes and cash.

3. BUSINESS SEGMENT INFORMATION (Continued)

Turnover by destination and product as well as long-lived assets by geographic area for the years ended 31 December were as follows:

	2017	2016
	\$m	\$m
Turnover - by destination		
United States	1,645.6	1,531.2
Non-U.S.	762.6	706.8
Total	2,408.2	2,238.0
	2017	2016
Terran last	\$m	\$m
Turnover - by product		
Mechanical products	1,906.4	1,793.1
All other	501.8	444.9
Total	2,408.2	2,238.0
Less than 10% of the Group's turnover comes from the sale of services.		
	2017	2016
	\$m	\$m
Long-lived assets		
United States	131.0	117.1
Non-U.S.	440.1	402.3
Total	571.1	519.4
4. OTHER OPERATING EXPENSES		
	2017	2016
	\$m	\$m

	\$m	\$m
Net foreign exchange loss	(0.7)	(2.0)
	(0.7)	(2.0)

5. INCOME FROM OTHER FINANCIAL ASSETS

During the years ended 31 December, the Group recorded income from other financial assets as follows:

	2017	2016
	\$m	\$m
Income from and gains from the sale of equity investments	(5.4)	(3.6)
Other	(7.3)	(14.7)
	(12.7)	(18.3)

In April 2017, iDevices LLC, including the Group's equity investment, was acquired by a third party. The Group recorded a cumulative gain of \$5.4 million in 2017 related to this divestiture within Income from and gains from the sale of equity investments above.

5. INCOME FROM OTHER FINANCIAL ASSETS (Continued)

Gains of \$7.3 million related to legal entity liquidations in our Asia Pacific region, of which \$2.2 million has been attributed to non-controlling interests. These gains are included within Other in the table above.

During the year ended 31 December 2016 the Group also recorded gains from the sale of marketable securities of \$12.4 million, which is included within Other in the table above.

6. OTHER INTEREST RECEIVABLE AND SIMILAR INCOME

	2017	2016
	\$m	\$m
Interest income	1.2	1.9
	1.2	1.9

7. INTEREST PAYABLE AND SIMILAR CHARGES

	2017 Sm	2016 \$m
Interest on bank debt	(31.5)	(24.0)
Interest on Senior notes	(24.7)	(34.9)
Debt refinancing and issuance costs	(44.7)	
Amortization of Debt issuance cost	(4.8)	(5.4)
	(105.7)	(64.3)

Interest payable and similar charges for the year ended 31 December 2017 increased \$41.4 million compared to the year ended 31 December 2016. Interest payable and similar charges increased primarily due to \$44.7 million of costs associated with the refinancing of our Credit Facilities, issuance of our new 3.200% and 3.550% Senior Notes, and redemption of our previously outstanding 5.750% and 5.875% Senior Notes due 2021 and 2023.

8. LOSS ON DIVESTITURES

As previously disclosed, the Group sold a majority stake of Bocom Wincent Technologies Co., Ltd. ("Systems Integration") in the fourth quarter of 2015, retaining 15% of the shares. Under the terms of the transaction, the Group was to receive consideration of up to \$75.0 million based on the future cash collection performance of Systems Integration and additional payments of approximately \$8.3 million related to working capital transferred with the sale. During the twelve months ended 31 December 2015 and as a result of the sale, the Group recorded a non-cash, pre-tax charge of \$78.1 million (\$82.4 million after tax charges) to write the carrying value of Systems Integration's assets and liabilities down to their estimated fair value less costs to complete the transaction. The charge was recorded as a loss on divestitures within the Consolidated Profit and Loss Account.

During the third quarter of 2016 the receivable was considered impaired, as it was determined that certain unfavorable events occurred related to the Systems Integration business requiring an impairment of the original consideration and working capital transfer amounts that were recorded at the time of the sale. A charge of \$81.4 million (net of tax) was recorded, reducing the carrying value of the receivable to a fair value estimated by discounting the expected future cash flows. The assumptions used in this estimate are considered unobservable inputs. Fair value measurements that utilize significant unobservable inputs are categorized as Level 3 measurements under the accounting guidance. The total charge recorded as a loss on divestitures within the Consolidated Profit and Loss Account was \$84.4 million for the twelve months ended 31 December 2016.

The Group currently estimates the fair value of the consideration to be \$2.6 million as of 31 December 2017, which is classified within debtors: amounts falling due after more than one year within the Consolidated Balance Sheet. The Group does not expect to incur any material charges in future periods related to the Systems Integration business.

In April 2017, iDevices LLC, including the Company's equity investment, was acquired by a third party. The Company recorded a cumulative gain of \$5.4 million in 2017 related to this divestiture within income from other financial assets.

9. PROFIT ON ORDINARY ACTIVITIES BEFORE TAXATION

	2017	2016
	\$m	\$m
Profit on ordinary activities before taxation has been arrived at after charging:	·	
Staff costs		
Wages & salaries	531.4	512.3
Social welfare	130.7	117.1
Other pension costs	12.0	16.1
Depreciation (Note 17)	40.0	40.9
Amortization of intangible assets (Note 16)	22.1	20.5
Auditors' remuneration	5.5	4.0
Restructuring costs (Note 13)	12.3	3.1
Research and development	48.3	47.3
Auditors Remuneration	2017	2016
	\$m	\$m
Audit of the group and statutory accounts	3.9	3.5
Other assurance services	0.9	0.1
Tax advisory services	0.7	0.4
	5.5	4.0

10. EMPLOYEE COSTS

The average number of persons employed in the Group, including executive directors, during the year was as follows:

	2017	2016
Business segment	Number	Number
Americas	6,470	6,237
EMEIA	2,765	2,749
Asia Pacific	452	449
	9,687	9,435
	2017	2016
Employee costs	\$m	\$m
Wages & salaries *	531.4	512.3
Social welfare & other pension costs	142.7	133.2
	674.1	645.5

*The cost of labor capitalized within the stock balance as of 31 December was approximately \$13.4 million (2016: \$12.5 million)

	2017	2016
Directors' remuneration	\$m	\$m
Emoluments	4.0	4.1
Benefits under long term incentive schemes	9.3	5.7
Contributions to retirement benefits schemes: Defined contribution	0.2	0.2
	13.5	10.0

11. TAX ON PROFIT ON ORDINARY ACTIVITIES

Profit on ordinary activities before taxation for the years ended 31 December were taxed within the following jurisdictions:

	2017	2016
	\$m	\$m
United States	166.5	129.9
Non-U.S.	229.2	165.1
Total	395.7	295.0

The components of the tax on profit on ordinary activities for the years ended 31 December were as follows:

	2017	2016
	\$m	\$m
Current tax expense:		
United States	78.8	43.8
Non-U.S.	15.0	13.8
Total:	93.8	57.6
Deferred tax expense (benefit):		
United States	41.2	14.4
Non-U.S.	(16.0)	(8.2)
Total:	25.2	6.2
Total tax expense (benefit):		
United States	120.0	58.2
Non-U.S.	(1.0)	5.6
Total	119.0	63.8

The provision for income tax differs from the amount of income taxes determined by applying the applicable U.S. statutory income tax rate to pretax income, as a result of the following differences:

	Percent of pretax income	
	2017	2016
Statutory U.S. rate	35.0%	35.0%
Increase (decrease) in rates resulting from:		
Non-U.S. tax rate differential (1)	(20.0)	(17.4)
State and local income taxes (1)	1.8	2.0
Reserves for uncertain tax positions	0.8	2.0
Tax on unremitted earnings	0.8	1.2
Tax Reform Act	13.5	_
Production incentives	(0.9)	(0.6)
Other adjustments	(0.9)	(0.6)
Effective tax rate	30.1%	21.6%

(1) Net of changes in valuation allowances

On 22 December 2017, the Tax Reform Act became law, resulting in broad and complex changes to the U.S. tax code which impact the Group's Consolidated Financial Statements during the year ended 31 December 2017 including, but not limited to (1) reducing the U.S. federal corporate tax rate, (2) requiring a one-time transition tax on certain unrepatriated earnings of non-U.S. subsidiaries that may electively be paid over eight years, and (3) requiring a review of the future realizability of deferred tax balances.

11. TAX ON PROFIT ON ORDINARY ACTIVITIES (Continued)

The Tax Reform Act reduces the U.S. federal corporate tax rate from 35 percent to 21 percent effective 1 January 2018. The Tax Reform Act also puts in place new tax laws which include, but are not limited to (1) a Base Erosion Anti-abuse Tax (BEAT), which is a new minimum tax, (2) generally eliminating U.S. federal income taxes on dividends from non-U.S. subsidiaries, (3) a provision designed to tax currently global intangible low taxed income (GILTI), (4) a provision that may limit the amount of currently deductible interest expense, (5) the repeal of the domestic production incentives, (6) limitations on the deductibility of certain executive compensation, and (7) limitations on the utilization of foreign tax credits to reduce the U.S. income tax liability.

Shortly after the Tax Reform Act was enacted, the SEC staff issued Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act (SAB 118) which provides guidance on accounting for the Tax Reform Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Reform Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Reform Act under ASC Topic 740. In accordance with SAB 118, the company must reflect the income tax effects of the Tax Reform Act in the reporting period in which the accounting under ASC Topic 740 is complete.

To the extent that a company's accounting for certain income tax effects of the Tax Reform Act is incomplete, the Group can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined. If a company cannot determine a provisional estimate to be included in the financial statements, the company should continue to apply ASC 740 based on the provisions of the tax laws that were in effect immediately prior to the Tax Reform Act being enacted. If a company is unable to provide a reasonable estimate of the impacts of the Tax Reform Act in a reporting period, a provisional amount must be recorded in the first reporting period in which a reasonable estimate can be determined.

The Group has recorded a provisional discrete net tax charge of \$53.5 million related to the Tax Reform Act in the year ended 31 December 2017. This net charge primarily consists of a net charge of \$24.5 million due to the remeasurement of deferred tax accounts to reflect the corporate rate reduction impact to the Group's net deferred tax balances, a net charge of \$22.8 million due to the future realizability of certain deferred tax balances, and a net charge for the transition tax of \$5.0 million, as more fully described below.

Reduction in U.S. Corporate Rate: The Tax Reform Act reduces the U.S. federal statutory corporate tax rate to 21 percent in years beginning on or after 1 January 2018. The Group has recorded a provisional adjustment to the net deferred tax balances, with a corresponding discrete net tax charge of \$24.5 million in the current period. While the Group can make a reasonable estimate of the impact of the reduction in corporate rate, the Group is continuing to analyze the temporary differences that existed on the date of enactment.

Future Realizability of Certain Deferred Tax Balances: The Tax Reform Act contains provisions that may limit or restrict the future realizability of certain existing deferred tax balances. The Group has recorded a provisional valuation allowance related to interest limitation carryforwards and other adjustments to the net deferred tax assets, with a corresponding discrete net tax charge of \$22.8 million in the current period. While the Group can make a reasonable estimate of the valuation allowance, the Group is awaiting further interpretative guidance and is continuing to gather additional information to refine its assessment. To the extent transition rules and interpretative guidance is clarified, some or all of the valuation allowance may reverse in a subsequent period.

Transition Tax: The transition tax is levied on the previously untaxed accumulated and current earnings and profits (E&P) of certain of the Group's non-U.S. subsidiaries. In order to determine the amount of the transition tax, the Group must determine, in addition to other factors, the amount of post-1986 E&P of the relevant subsidiaries, as well as the amount of non-U.S. income taxes paid on such earnings. E&P is similar to the profit and loss account of the subsidiary, but requires other adjustments to conform to U.S. tax rules. The Group has made a reasonable estimate of the transition tax and recorded a provisional transition tax obligation of \$5.0 million which the Group expects to elect to pay over eight years. This amount is presented in creditors: amounts falling due within one year and creditors: amounts falling due after more than one year. However, the Group is awaiting further interpretative guidance, continuing to assess available tax methods and elections, and continuing to gather additional information to more precisely compute the amount of the transition tax.

11. TAX ON PROFIT ON ORDINARY ACTIVITIES (Continued)

The majority of the Group's earnings are considered permanently reinvested. The \$5.0 million transition tax will result in certain previously untaxed non-U.S. earnings being included in the U.S. federal and state 2017 taxable income. As a result of the Tax Reform Act, the Group is currently analyzing its global working capital requirements and the potential tax liabilities that would be incurred if certain non-U.S. subsidiaries made distributions, which include local country withholding tax and potential U.S. state taxation. For these reasons, the Group is not yet able to reasonably estimate the effect of this provision of the Tax Reform Act and has not recorded any incremental withholding or state tax liabilities on its investment in its non-U.S. subsidiaries.

The Group is also currently analyzing other provisions of the Tax Reform Act that come into effect in 2018. These provisions include BEAT, eliminating U.S. federal income taxes on dividends from non-U.S. subsidiaries, the treatment of amounts in other comprehensive income, the new provision that could limit the amount of deductible interest expense, and the limitations on the deductibility of certain executive compensation.

At 31 December a summary of the deferred tax accounts is as follows:

	2017	2016
	\$m	\$m
Deferred tax assets:		
Stock and debtors	17.0	18.3
Tangible and intangible assets	2.6	2.0
Post-employment and other benefit liabilities	29.9	42.0
Other reserves and accruals	12.5	16.0
Net operating losses, tax credits and other carryforwards	309.5	227.1
Other	4.2	5.3
Gross deferred tax assets	375.7	310.7
Less: deferred tax valuation allowances	(312.9)	(225.5)
Deferred tax assets net of valuation allowances	62.8	85.2
Deferred tax liabilities:		
Fixed assets and intangibles	(101.7)	(90.6)
Postemployment and other benefit liabilities	(4.7)	
Unremitted earnings of non-U.S. subsidiaries	(6.0)	(4.2)
Other	(7.4)	(6.0)
Gross deferred tax liabilities	(119.8)	(100.8)
Net deferred tax liabilities	(57.0)	(15.6)

At 31 December 2017, \$6.0 million of deferred tax was recorded for certain undistributed earnings of non-U.S. subsidiaries. Historically, no deferred taxes have been provided for any portion of the remaining undistributed earnings of the Group's subsidiaries since these earnings have been, and will continue to be, permanently reinvested in these subsidiaries. For many reasons, including the number of legal entities and jurisdictions involved, the complexity of the Group's legal entity structure, the complexity of tax laws in the relevant jurisdictions and the impact of projections of income for future years to any calculations, the Group believes it is not practicable to estimate, within any reasonable range, the amount of additional taxes which may be payable upon the distribution of earnings.

At 31 December 2017, the Group had the following tax losses and tax credit carryforwards available to offset taxable income in prior and future years:

	Amount \$m	Expiration Period
U.S. Federal tax loss carryforwards	15.1	2027 & 2028
U.S. Federal and State credit carryforwards	22.2	2024-2027
U.S. State tax loss carryforwards	29.6	2018-2037
Non-U.S. tax loss carryforwards	1,013.0	2018-Unlimited

11. TAX ON PROFIT ON ORDINARY ACTIVITIES (Continued)

The U.S. state loss carryforwards were incurred in various jurisdictions. The non-U.S. loss carryforwards were incurred in various jurisdictions, predominantly in China, Ireland, Italy, Luxembourg and the United Kingdom.

The Group evaluates its deferred income tax assets to determine if valuation allowances are required or should be adjusted. U.S. GAAP requires that companies assess whether valuation allowances should be established against their deferred tax assets based on consideration of all available evidence, both positive and negative, using a "more likely than not" standard. This assessment considers the nature, frequency and amount of recent losses, the duration of statutory carryforward periods and tax planning strategies. In making such judgments, significant weight is given to evidence that can be objectively verified.

Activity associated with the Group's valuation allowance is as follows:

	2017	2016
	\$m	\$m
Beginning balance	225.5	133.3
Increase to valuation allowance	96.9	109.0
Decrease to valuation allowance	(11.9)	(13.9)
Foreign exchange translation	2.4	(3.3)
Other comprehensive income	_	0.4
Ending balance	312.9	225.5

During 2017, the valuation allowance increased by \$87.4 million. This increase is the result of changes in jurisdictional profitability, country specific tax laws and changes in judgment and facts regarding the realizability of deferred tax assets.

The Group has total unrecognized tax benefits of \$29.0 million and \$32.0 million as of 31 December 2017, and 31 December 2016, respectively. The amount of unrecognized tax benefits that, if recognized, would affect the effective tax rate are \$27.4 million as of 31 December 2017. A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows:

2017 \$m	2016
	\$m
32.0	23.8
6.4	9.1
1.6	7.1
(5.0)	(5.5)
(7.1)	(0.6)
(1.2)	(0.9)
2.3	(1.0)
29.0	32.0
	\$m 32.0 6.4 1.6 (5.0) (7.1) (1.2) 2.3

The Group records interest and penalties associated with the uncertain tax positions within its tax on profit on ordinary activities. The Group had reserves associated with interest and penalties, net of tax, of \$4.9 million and \$5.4 million at 31 December 2017 and 2016, respectively. For the years ended 31 December 2017 and 2016, the Group recognized \$0.0 million and \$0.3 million, respectively, in net interest and penalties, net of tax, related to these uncertain tax positions.

The total amount of unrecognized tax benefits relating to the Group's tax positions is subject to change based on future events including, but not limited to, the settlements of ongoing audits and/or the expiration of applicable statutes of limitations. Although the outcomes and timing of such events are highly uncertain, it is reasonably possible that the balance of gross unrecognized tax benefits, excluding interest and penalties, could potentially be reduced by up to approximately \$10.7 million during the next 12 months.

11. TAX ON PROFIT ON ORDINARY ACTIVITIES (Continued)

The tax on profit on ordinary activities involves a significant amount of management judgment regarding interpretation of relevant facts and laws in the jurisdictions in which the Group operates. Future changes in applicable laws, projected levels of taxable income and tax planning could change the effective tax rate and tax balances recorded by the Group. In addition, tax authorities periodically review income tax returns filed by the Group and can raise issues regarding its filing positions, timing and amount of income or deductions, and the allocation of income among the jurisdictions in which the Group operates. A significant period of time may elapse between the filing of an income tax return and the ultimate resolution of an issue raised by a tax authority with respect to that return. In the normal course of business, the Group is subject to examination by taxing authorities throughout the world, including such major jurisdictions as Canada, France, Germany, Italy, Mexico, the Netherlands and the United States. In general, the examination of the material tax returns of subsidiaries of the Group is complete for the years prior to 2003, with certain matters being resolved through appeals and litigation.

The Group had indemnity receivables in the amount of \$5.7 million and \$5.6 million included in debtors: amounts falling due after more than one year at 31 December 2017 and 2016, respectively, primarily related to additional competent authority relief filings.

12. ACQUISITIONS

In January 2017, the Group acquired Republic Doors & Frames, LLC through one of its subsidiaries. During the year ended 31 December 2017 the Group incurred \$4.7 million of acquisition related costs, which are included in distribution costs and administrative expenses in the Consolidated Profit and Loss Account.

In June 2016, the Group acquired 100% of Trelock GmbH, a portable safety and security provider, and certain affiliated companies. Acquisition related costs were not material to the 2016 Consolidated Profit and Loss Account.

13. RESTRUCTURING ACTIVITIES AND SEPARATION COSTS

During 2017 and 2016, the Group incurred costs of \$12.3 million and \$3.1 million, respectively, associated with restructuring actions. These actions included workforce reductions, costs associated with the exit of an immaterial product line, and the closure and consolidation of manufacturing facilities in an effort to increase efficiencies.

Restructuring charges recorded during the years ended 31 December as part of restructuring plans were as follows:

	2017	2016
	\$m	\$m
Americas	5.5	2.0
EMEIA	6.2	0.9
Asia Pacific		0.2
Corporate and Other	0.6	
Total	12.3	3.1
Cost of sales	5.8	0.9
Distribution costs and administrative expenses	6.5	2.2
Total	12.3	3.1

13. RESTRUCTURING ACTIVITIES AND SEPARATION COSTS (Continued)

The changes in the restructuring reserve during the years ended 31 December 2017 and 2016 were as follows:

	Americas	EMEIA	Asia Pacific	Corporate/ Other	Total
	\$m	\$m	\$m		\$m
31 December 2015		10.0	0.2		10.2
Additions	2.0	0.9	0.2		3.1
Cash and non-cash uses	(1.7)	(7.5)	(0.4)		(9.6)
Currency translation		(0.2)	—		(0.2)
31 December 2016	0.3	3.2	_		3.5
Additions	5.5	6.2	—	0.6	12.3
Cash and non-cash uses	(5.5)	(5.8)	—	(0.5)	(11.8)
Currency translation		0.2	—		0.2
31 December 2017	0.3	3.8		0.1	4.2

The Group incurred other non-qualified restructuring charges of \$1.5 million and \$6.4 million during the years ended 31 December 2017 and 2016, respectively, in conjunction with the other restructuring plans, which represent costs that are directly attributable to restructuring activities, but do not fall into the severance, exit or disposal category. The majority of the costs accrued as of 31 December 2017 will be paid within one year.

14. NON-CONTROLLING INTERESTS

	2017	2016
	\$m	\$m
At 1 January	3.1	4.1
Share of profit for the financial year	3.4	2.1
Dividends to minorities	(1.8)	(2.7)
Acquisition / divestiture of non-controlling interest, net	_	_
Other	(0.8)	(0.4)
At 31 December	3.9	3.1

15. EARNINGS PER SHARE (EPS)

Basic EPS is calculated by dividing profit for the financial year attributable to Allegion plc by the weighted-average number of ordinary shares outstanding for the applicable year. Diluted EPS is calculated after adjusting the denominator of the basic EPS calculation for the effect of all potentially dilutive ordinary shares, which in the Group's case, includes shares issuable under share-based compensation plans.

The following table summarizes the weighted-average number of ordinary shares outstanding for basic and diluted earnings per share calculations:

	2017	2016
Weighted-average number of basic shares	95.1	95.8
Shares issuable under incentive stock plans	0.9	1.1
Weighted-average number of diluted shares	96.0	96.9

At 31 December 2017, 0.1 million (2016: 0.6 million) stock options were excluded from the computation of weighted average diluted shares outstanding because the effect of including these shares would have been anti-dilutive.

16. INTANGIBLE ASSETS

The following table sets forth the gross amount and related accumulated amortization of the Group's intangible assets:

	Goodwill *	Trademarks & Tradenames	Customer Relationships	Patents	Other	Total
	\$m	\$m	\$m	\$m	\$m	\$m
Cost						
At 1 January 2016	714.1	143.3	278.7	49.0	9.0	1,194.1
Additions	15.8	4.7	9.7	0.3	2.4	32.9
Exchange differences	(13.1)	(4.9)	(9.5)	(1.3)	(0.4)	(29.2)
At 31 December 2016	716.8	143.1	278.9	48.0	11.0	1,197.8
Additions	2.0	3.2	7.1	0.2	2.1	14.6
Exchange differences	42.4	18.4	38.5	4.9	1.2	105.4
Other		(0.3)		(20.5)	(6.4)	(27.2)
At 31 December 2017	761.2	164.4	324.5	32.6	7.9	1,290.6
Accumulated amortization						
At 1 January 2016	—	35.3	40.2	23.1	9.0	107.6
Charge for the year	—	3.5	13.3	2.9	0.8	20.5
Exchange differences		(1.5)	(1.9)	(0.7)	(0.4)	(4.5)
At 31 December 2016		37.3	51.6	25.3	9.4	123.6
Charge for the year		3.4	14.5	2.9	1.3	22.1
Exchange differences	—	5.4	8.0	2.1	0.9	16.4
Other				(20.3)	(6.7)	(27.0)
At 31 December 2017		46.1	74.1	10.0	4.9	135.1
Net book amount						
At 31 December 2016	716.8	105.8	227.3	22.7	1.6	1,074.2
At 31 December 2017	761.2	118.3	250.4	22.6	3.0	1,155.5

The Group amortizes intangible assets with finite useful lives on a straight-line basis over their estimated economic lives in accordance with U.S. GAAP. Indefinite-lived intangible assets are not subject to amortization, but instead, are tested for impairment at least annually (more frequently if certain indicators are present).

Intangible asset amortization expense for 2017 and 2016 was \$22.1 million and \$20.5 million, respectively. Future estimated amortization expense on existing intangible assets in each of the next five years amounts to approximately \$22.7 million for 2018, \$21.8 million for 2019, \$21.8 million for 2020, \$21.7 million for 2021, and \$21.7 million for 2022.

In accordance with the Group's indefinite-lived intangible asset impairment testing policy, the Group performed its annual impairment test in the fourth quarter of each year. In each year, the Group determined the fair value of all indefinite-lived intangible assets exceeded their respective carrying values. Therefore, no impairment charges were recorded during 2017 and 2016.

16. INTANGIBLE ASSETS (Continued)

The Group records as goodwill the excess of the purchase price over the fair value of the net assets acquired. Once the final valuation has been performed for each acquisition, adjustments may be recorded. The changes in the carrying amount of goodwill are as follows:

	Americas	EMEIA	Asia Pacific	Total
	\$m	\$m	\$m	\$ m
1 January 2016 (net)	372.8	254.8	86.5	714.1
Acquisitions		12.5	3.3	15.8
Currency translation	0.1	(9.8)	(3.4)	(13.1)
31 December 2016 (net)	372.9	257.5	86.4	716.8
Acquisitions and settlements	2.3	(1.6)	1.3	2.0
Currency translation	—	35.3	7.1	42.4
31 December 2017 (net)	375.2	291.2	94.8	761.2

17. TANGIBLE ASSETS

At 31 December the major classes of tangible assets were as follows:

	Land and Buildings	Machinery and Equipment	Vehicles	Fixtures and Fittings	Software	Construction In Progress	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Cost or valuation							
At 1 January 2016	140.4	300.5	0.9	38.7	101.9	34.1	616.5
Additions	9.4	22.4	—	4.3	28.7	30.8	95.6
Transfers	(2.1)	(0.3)	—	0.1	0.2	(46.0)	(48.1)
Exchange differences	(2.6)	(3.8)		(0.8)	(1.2)	(0.2)	(8.6)
Disposals	(2.9)	(4.5)	—	(2.8)	(3.2)		(13.4)
Other	(0.1)	(2.6)	—	1.5		(0.4)	(1.6)
At 31 December 2016	142.1	311.7	0.9	41.0	126.4	18.3	640.4
Additions	10.8	22.8	0.1	3.4	14.7	43.5	95.3
Transfers	0.2	(0.2)				(38.6)	(38.6)
Exchange differences	7.1	10.1	0.1	2.4	2.8	1.2	23.7
Disposals	(2.0)	(4.9)	(0.2)	(3.3)	(2.5)		(12.9)
At 31 December 2017	158.2	339.5	0.9	43.5	141.4	24.4	707.9
Accumulated depreciation							
At 1 January 2016	71.6	226.7	0.5	32.7	60.2		391.7
Charge for the year	4.5	17.8		2.0	16.6		40.9
Transfers	(0.4)			0.1	0.2		(0.1)
Exchange differences	(1.1)	(3.1)		(0.6)	(0.6)		(5.4)
Disposals	(2.2)	(4.1)		(2.8)	(2.9)		(12.0)
Other		(2.6)		1.3			(1.3)
At 31 December 2016	72.4	234.7	0.5	32.7	73.5		413.8
Charge for the year	4.5	18.6	0.1	2.5	14.3		40.0
Transfers	0.1	(0.1)	0.1	(0.1)	(0.3)		(0.3)
Exchange differences	2.5	7.6		1.9	1.5		13.5
Disposals	(1.0)	(4.7)	(0.1)	(3.3)	(2.5)		(11.6)
Other	—		—		0.3		0.3
At 31 December 2017	78.5	256.1	0.6	33.7	86.8		455.7
Net book amount							
At 31 December 2016	69.7	77.0	0.4	8.3	52.9	18.3	226.6
At 31 December 2017	79.7	83.4	0.3	9.8	54.6	24.4	252.2

During the financial year, tangible fixed assets with a carrying amount of \$1.3 million were disposed of. The assets had a cost of \$12.9 million and accumulated depreciation of \$11.6 million. The gain on the disposal of these tangible fixed assets was \$0.1 million (2016: loss of \$1.3 million).

18. FINANCIAL ASSETS

The Group's financial assets were comprised of:

	2017	2016
	\$m	\$m
Investment in associates	10.0	18.6
Capital investments	4.7	4.6
Deposits	1.5	1.1
At 31 December	16.2	24.3

19. STOCK

At 31 December the major classes of stock were as follows:

	2017	2016
	\$m	\$m
Raw materials and consumables	66.6	56.7
Work in progress	29.8	23.6
Finished goods and goods for resale	143.4	140.3
At 31 December	239.8	220.6

Stock is stated at the lower of cost and net realizable value using the first-in, first-out (FIFO) method. The estimated replacement cost of stock did not differ significantly from the figures shown above.

20. DEBTORS

	2017	2016
	\$m	\$m
Amounts falling due within one year:		
Trade debtors	318.0	280.0
Less: Provision for impairment of receivables	(2.8)	(2.7)
Less: Reserve for customer claims	(32.5)	(29.0)
Trade debtors - net	282.7	248.3
Trade notes receivable	3.3	2.3
Other debtors	10.5	16.8
Prepayments and accrued income	17.1	14.8
Income tax receivables	12.2	11.9
At 31 December	325.8	294.1

21. CASH AT BANK AND IN HAND

	2017	2016
	\$m	\$m
Cash at bank and in hand	466.2	312.4
At 31 December	466.2	312.4

22. DEBTORS – AMOUNTS FALLING DUE AFTER MORE THAN ONE YEAR

	2017 	2016	
		\$m	
Other debtors	11.1	10.5	
Interest rate swaps (Note 26)	5.3	4.6	
Defined benefit plans (Note 27)	28.5		
Deferred tax asset	35.4	72.3	
Debt issue costs	5.1	5.6	
At 31 December	85.4	93.0	

23. CREDITORS – AMOUNTS FALLING DUE WITHIN ONE YEAR

	2017	2016	
	\$m	\$m	
Current portion of long term debt (Note 25)	35.0	48.2	
Payments received on account	1.5	1.3	
Trade creditors	188.2	180.0	
Other creditors	94.9	90.0	
Irish dividend withholding tax	0.4	0.4	
Income tax	14.6	2.7	
Other taxes	7.0	5.3	
Value added tax	5.1	3.4	
Salary/Payroll taxes	7.0	5.4	
Irish PAYE/PRSI	0.1	0.1	
Currency derivatives payable (Note 26)	0.7	0.3	
Freight and Excise duty	9.3	8.7	
Accruals	52.0	52.0	
Interest rate swaps (Note 26)		0.4	
At 31 December	415.8	398.2	

Other creditors and accruals principally comprise amounts outstanding for trade purchases and ongoing costs. Trade creditors principally comprise amounts outstanding for day to day purchases and ongoing costs and are payable at various dates in the next three months in accordance with the suppliers' usual and customary credit terms. The directors consider that the carrying amount of trade creditors approximates to their fair value.

24. CREDITORS – AMOUNTS FALLING DUE AFTER MORE THAN ONE YEAR

	2017	2016
	\$m	\$m
Long term debt (Note 25)	1,442.3	1,415.6
At 31 December	1,442.3	1,415.6

25. DEBT AND CREDIT FACILITIES

At 31 December long-term debt and other borrowings consisted of the following:

	2017	2016
	Sm	\$m
Term Loan A Facility		879.8
Term Facility	691.3	
Revolving Facility		
5.750% Senior Notes due 2021		300.0
5.875% Senior Notes due 2023	_	300.0
3.200% Senior Notes due 2024	400.0	
3.550% Senior Notes due 2027	400.0	
Other debt	1.0	2.3
Total borrowings outstanding	1,492.3	1,482.1
Less discounts and debt issuance costs, net	(15.0)	(18.3)
Total debt	1,477.3	1,463.8
Less current portion of long term debt	35.0	48.2
Total long-term debt	1,442.3	1,415.6

Unsecured Credit Facilities

As of 31 December 2017, the Group has an unsecured Credit Agreement in place that provides for up to \$1,200.0 million in unsecured financing, consisting of a \$700.0 million term loan facility (the "Term Facility") and a \$500.0 million revolving credit facility (the "Revolving Facility" and, together with the Term Facility, the "Credit Facilities"). The Credit Facilities mature on 12 September 2022 and are unconditionally guaranteed jointly and severally on an unsecured basis by the Group and Allegion US Holding Group Inc. ("Allegion US Hold Co"), the Group's wholly-owned subsidiary.

The Term Facility amortizes in quarterly installments at the following rates: 1.25% per quarter starting 31 December 2017 through 31 December 2020, 2.5% per quarter from 31 March 2021 through 30 June 2022, with the balance due on 12 September 2022. The Group may voluntarily prepay outstanding amounts under the Term Facility at any time without premium or penalty, subject to customary breakage costs. Amounts borrowed under the Term Facility that are repaid may not be reborrowed.

The Revolving Facility provides aggregate commitments of up to \$500.0 million, which includes up to \$100.0 million for the issuance of letters of credit. At 31 December 2017, there were no borrowings outstanding on the Revolving Facility, and the Group had \$17.4 million of letters of credit outstanding. Commitments under the Revolving Facility may be reduced at any time without premium or penalty, and amounts repaid may be reborrowed. The Group pays certain fees with respect to the Revolving Facility, including an unused commitment fee on the undrawn portion of the Revolving Facility of between 0.125% and 0.200% per year, depending on the Group's credit rating, as well as certain other fees.

Outstanding borrowings under the Credit Facilities accrue interest, at the option of the Group of (i) a LIBOR rate plus the applicable margin or (ii) a base rate plus the applicable margin. The applicable margin ranges from 1.125% to 1.500% depending on the Group's credit ratings. At 31 December 2017, the outstanding borrowings under the Term Facility accrue interest at LIBOR plus a margin of 1.250%. To manage the Group's exposure to fluctuations in LIBOR rates, the Group has interest rate swaps to fix the interest rate for \$250.0 million of the outstanding borrowings (see Note 26).

The Credit Facilities contain negative and affirmative covenants and events of default that, among other things, limit or restrict the Group's ability to enter into certain transactions. In addition, the Credit Facilities require the Group to comply with a maximum leverage ratio and a minimum interest expense coverage ratio, as defined within the agreement. As of 31 December 2017, the Group was in compliance with all covenants.

Senior Notes

As of 31 December 2017, Allegion US Hold Co has \$400.0 million outstanding of its 3.200% Senior Notes due 2024 (the "3.200% Senior Notes") and \$400.0 million outstanding of its 3.550% Senior Notes due 2027 (the "3.550% Senior Notes" and, together with the 3.200% Senior Notes, the "Notes"), both of which were issued on 2 October 2017. The Notes require semiannual interest payments on April 1 and October 1 of each year, and will mature on 1 October 2024 and 1 October 2027, respectively.

25. DEBT AND CREDIT FACILITIES (Continued)

The Notes are senior unsecured obligations of Allegion US Hold Co and rank equally with all of Allegion US Hold Co's existing and future senior unsecured and unsubordinated indebtedness. The guarantee of the Notes is the senior unsecured obligation of the Group and ranks equally with all of the Group's existing and future senior unsecured and unsubordinated indebtedness.

2017 Refinancing

The Group entered into the Credit Agreement on 12 September 2017. The initial proceeds of \$700.0 million from the Term Facility, along with initial borrowings of \$165.0 million under the Revolving Facility, were used primarily to repay in full the outstanding borrowing under the Group's previously outstanding secured credit facility, the Second Amended and Restated Credit Agreement, dated as of 30 September 2015. All obligations under the Second Amended and Restated Credit Agreement were satisfied, all commitments thereunder were terminated, and all guarantees and security interests that had been granted in connection therewith were released.

On 3 October 2017, Allegion US Hold Co used the net proceeds from the Notes to redeem in full the \$300.0 million Senior Notes due 2021 and the \$300.0 million Senior Notes due 2023, as well as to repay in full the borrowings under the Revolving Facility and other costs associated with the refinancing.

Related to the 2017 refinancing activities, the Group recorded a \$33.2 million charge for the redemption premiums associated with the Senior Notes due 2021 and 2023, non-cash charges of \$9.9 million related to the write-off of previously deferred financing costs, and \$1.6 million of third party costs. These charges were all recorded within interest payable and similar charges on the Consolidated Profit and Loss Account. The Group also incurred and deferred \$10.8 million of discounts and financing costs associated with the new debt, which will be amortized to interest payable and similar charges over the terms of the respective debt.

At 31 December 2017, the scheduled principal repayments on indebtedness are as follows:

	\$m
2018	35.0
2019	35.0
2020	35.0
2021	70.0
2022	516.3
Thereafter	801.0
Total	1,492.3

At 31 December 2017, the weighted-average interest rate for borrowings was 2.82% under the Term Facility (including the effect of interest rate swaps), 3.200% under the 3.200% Senior Notes and 3.550% under the 3.550% Senior Notes. Cash paid for interest for the years ended 31 December 2017 and 2016 was \$58.4 million and \$56.0 million, respectively.

26. FINANCIAL INSTRUMENTS

In the normal course of business, the Group uses various financial instruments, including derivative instruments, to manage the risks associated with currency and variable interest rate exposures. These financial instruments are not used for trading or speculative purposes.

On the date a derivative contract is entered into, the Group designates the derivative instrument as a cash flow hedge of a forecasted transaction, a cash flow hedge of a recognized asset or liability, or as an undesignated derivative. The Group formally documents its hedge relationships, including identification of the derivative instruments and the hedged items, as well as its risk management objectives and strategies for undertaking the hedge transaction. This process includes linking derivative instruments that are designated as hedges to specific assets, liabilities or forecasted transactions.

The fair market value of derivative instruments is determined through market-based valuations and may not be representative of the actual gains or losses that will be recorded when these instruments mature due to future fluctuations in the markets in which they are traded.

26. FINANCIAL INSTRUMENTS (Continued)

The Group assesses at inception and at least quarterly thereafter, whether the derivatives used in cash flow hedging transactions are highly effective in offsetting the changes in the cash flows of the hedged item. To the extent the derivative is deemed to be a highly effective hedge, the fair market value changes of the instrument are recorded to other reserves.

Any ineffective portion of a derivative instrument's change in fair value is recorded in the Consolidated Profit and Loss Account in the year of change. If the hedging relationship ceases to be highly effective, or it becomes probable that a forecasted transaction is no longer expected to occur, the hedging relationship will be undesignated and any future gains and losses on the derivative instrument will be recorded in the Consolidated Profit and Loss Account.

Currency Hedging Instruments

The gross notional amount of the Group's currency derivatives were \$57.7 million and \$132.6 million at 31 December 2017 and 2016, gains of \$0.3 million and \$0.8 million, net of tax, respectively, were included in other reserves related to the fair value of the Group's currency derivatives designated as accounting hedges. The approximate amount expected to be reclassified into the Consolidated Profit and Loss Account over the next twelve months is a gain of \$0.3 million. The actual amounts that will be reclassified to the Consolidated Profit and Loss Account may vary from this amount as a result of changes in market conditions. Gains and losses associated with the Group's currency derivatives not designated as hedges are recorded in the Consolidated Profit and Loss Account as changes in fair value occur. At 31 December 2017, the maximum term of the Group's currency derivatives was less than one year.

Interest Rate Swaps

The Group has interest rate swaps to fix interest rate payments during the contract period for \$250.0 million of the Group's variable rate Term Facility. These swaps expire in September 2020. These interest rate swaps met the criteria to be accounted for as cash flow hedges of variable rate interest payments. Consequently, the changes in fair value of the interest rate swaps are recognized in other reserves. At 31 December 2017 and 2016, \$3.5 million and \$2.6 million of gains, net of tax, respectively, were recorded in other reserves related to these interest rate swaps. The approximate amount expected to be reclassified into the Consolidated Profit and Loss Account over the next twelve months is a gain of \$1 million. The actual amounts that will be reclassified to the Consolidated Profit and Loss Account may vary from this amount as a result of changes in market conditions.

The fair values of derivative instruments included within the Consolidated Balance Sheet as of 31 December were as follows:

	Asset derivatives		Liability derivatives	
	\$m	\$m	\$m	\$m
	2017	2016	2017	2016
Derivatives designated as hedges:				
Currency derivatives	0.2	0.7	0.3	0.1
Interest rate swaps	5.3	4.6		0.4
Derivatives not designated as hedges:				
Currency derivatives		0.3	0.4	0.2
Total derivatives	5.5	5.6	0.7	0.7

Asset and liability currency derivatives included in the table above are recorded within debtors and creditors respectively. Asset and liability interest rate swap derivatives included in the table above are recorded within debtors: amounts falling due after more than one year and creditors: amounts falling due within one year, respectively.

26. FINANCIAL INSTRUMENTS (Continued)

The amounts associated with derivatives designated as hedges affecting the Consolidated Profit and Loss Account and other reserves for the years ended 31 December were as follows:

		Amount of gain recognized in other reserves	Location of gain (loss) reclassified from other	Amount of gain (loss) reclassified from other reserves and recognized into earnings	
	\$m	\$m	reserves and recognized into	\$m	\$m
	2017	2016	earnings	2017	2016
Currency derivatives	4.0	4.2	Cost of sales	4.7	5.4
Interest rate swaps	1.2	5.4	Interest payable and similar charges	(0.3)	_
Total	5.2	9.6		4.4	5.4

The gains and losses associated with the Group's non-designated currency derivatives, which are offset by changes in the fair value of the underlying transactions, are included within income from other financial assets in the Consolidated Profit and Loss Account.

Concentration of Credit Risk

The counterparties to the Group's forward contracts and swaps consist of a number of investment grade major international financial institutions. The Group could be exposed to losses in the event of nonperformance by the counterparties. However, the credit ratings and the concentration of risk in these financial institutions are monitored on a continuous basis and present no significant credit risk to the Group.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS

The Group sponsors several U.S. defined benefit and defined contribution plans covering substantially all of our U.S. employees. Additionally, the Group has non-U.S. defined benefit and defined contribution plans covering eligible non-U.S. employees. Postretirement benefits, other than pensions, provide healthcare benefits, and in some instances, life insurance benefits for certain eligible employees.

Pension Plans

The noncontributory defined benefit pension plans covering non-collectively bargained U.S. employees provide benefits on an average pay formula while most plans for collectively bargained U.S. employees provide benefits on a flat dollar benefit formula. The non-U.S. pension plans generally provide benefits based on earnings and years of service. The Group also maintains additional other supplemental plans for officers and other key employees.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The following table details information regarding the Group's pension plans at 31 December:

	U.S		NON-U	J .S.
	\$m	\$m	\$m	\$m
Change in benefit obligations:	2017	2016	2017	2016
Benefit obligation at beginning of year	286.9	280.7	380.5	371.7
Service cost	8.7	280.7 9.4	3.3	3.1
Interest cost	10.5	9.4	8.9	10.7
Employee contributions	10.5	9.0	0.3	0.3
Actuarial losses (gains)	17.5	1.6	(15.4)	80.8
Benefits paid	(12.4)	(12.6)	(13.4)	(18.7)
Foreign exchange rate changes	(12.4)	(12.0)	34.3	(63.5)
Curtailments and settlements			(0.9)	(03.3)
Acquisitions	7.3		(0.9)	(1.0)
Other, including expenses paid	(1.0)	(2.0)	(1.0)	(2.1)
Benefit obligation at end of year	317.5	286.9	396.3	380.5
Change in plan assets:	517.5	280.9		380.3
Fair value at beginning of year	202.4	192.7	353.4	340.4
Actual return on plan assets	31.9	192.7	22.3	90.3
Company contributions	55.7	7.9	5.2	90.3 6.0
Employee contributions	55.7	1.9	0.3	0.0
Benefits paid	(12.4)	(12.6)	(13.7)	(18.7)
Foreign exchange rate changes	(12.4)	(12.0)	33.7	(61.0)
Settlements			(0.9)	(01.0)
Acquisitions	6.5		(0.9)	(1.0)
Other, including expenses paid	(0.9)	(2.0)	(1.9)	(2.1)
Fair value of assets end of year	283.2	202.4	398.4	353.4
Funded status:		202.4	570.4	
Plan assets (less than) over benefit obligations	(34.3)	(84.5)	2.1	(27.1)
Amounts included in the balance sheet:	(34.3)	(04.3)	2.1	(27.1)
Financial assets and debtors			28.5	
Accrued compensation and benefits	(0.2)	(0.1)	(1.3)	(1.5)
Post employment and other benefit liabilities	(34.1)	(84.4)	(25.1)	(1.5)
Net amount recognized	(34.3)	(84.5)	2.1	(27.1)
tot amount roopinzou	(37.3)	(03)	2.1	(27.1)

It is the Group's objective to contribute to the pension plans to ensure adequate funds are available in the plans to make benefit payments to plan participants and beneficiaries when required. However, certain plans are not funded due to either legal, accounting, or tax requirements in certain jurisdictions. As of 31 December 2017, approximately 5% of our projected benefit obligation relates to plans that are not funded of which the majority are Non-U.S. plans.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The pretax amounts recognized in other reserves were as follows:

	U.S.		
	Prior service cost	Net actuarial losses	Total
	\$m	\$m	\$ m
31 December 2015	(2.8)	(88.9)	(91.7)
Current year changes recorded to other reserves		4.5	4.5
Amortization reclassified to profit and loss account	0.7	4.7	5.4
31 December 2016	(2.1)	(79.7)	(81.8)
Current year changes recorded to other reserves		2.4	2.4
Amortization reclassified to profit and loss account	0.3	4.8	5.1
31 December 2017	(1.8)	(72.5)	(74.3)

	NON U.S.		
	Prior service cost	Net actuarial losses	Total
	\$m	\$m	\$m
31 December 2015		(92.2)	(92.2)
Current year changes recorded to other reserves		(4.3)	(4.3)
Amortization reclassified to profit and loss account		2.2	2.2
Settlements/curtailments reclassified to profit and loss account		0.3	0.3
Currency translation and other		14.4	14.4
31 December 2016		(79.6)	(79.6)
Current year changes recorded to other reserves		23.3	23.3
Amortization reclassified to profit and loss account		1.8	1.8
Settlements/curtailments reclassified to profit and loss account		0.1	0.1
Currency translation and other	0.1	(6.2)	(6.1)
31 December 2017	0.1	(60.6)	(60.5)

Weighted-average assumptions used:

Benefit obligations at 31 December:	2017	2016
Discount rate:		
U.S. plans	3.6%	4.1%
Non-U.S. plans	2.5%	2.6%
Rate of compensation increase:		
U.S. plans	3.0%	3.5%
Non-U.S. plans	3.2%	3.2%

The accumulated benefit obligation for all U.S. defined benefit pension plans was \$304.9 million and \$272.5 million at 31 December 2017 and 2016, respectively. The accumulated benefit obligation for all non-U.S. defined benefit pension plans was \$388.3 million and \$371.9 million at 31 December 2017 and 2016, respectively.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

Beginning in 2016, the Group elected to change the method used to estimate the service and interest cost components of net periodic benefit cost to a full yield-curve approach. Historically, the Group estimated the service and interest cost components using a single weighted-average discount rate, rounded to the nearest 25th basis point, derived from the yield curve used to measure the benefit obligation at the beginning of the year. Under the new approach, the Group applied discounting using the applicable spot rates derived from the yield curve to discount the cash flows used to measure the benefit obligation. These spot rates align to each of the projected benefit obligations and service cost cash flows. This change was made to better align the projected benefit costs. This change was considered a change in estimate and was accounted for on a prospective basis beginning 1 January 2016. This change did not have a material impact on 2016 pension expense.

Information regarding pension plans with accumulated benefit obligations more than plan assets were:

	U.S.		NON-U.S.	
	2017	2016	2017	2016
		\$m	\$m	\$m
Projected benefit obligation	317.5	286.9	34.4	30.2
Accumulated benefit obligation	304.9	272.5	29.5	25.9
Fair value of plan assets	283.2	202.4	7.9	6.8

Future pension benefit payments are expected to be paid as follows:

	U.S.	NON-U.S.
	\$m	\$m
2018	16.3	16.0
2019	16.6	16.3
2020	23.6	17.0
2021	18.7	17.8
2022	19.1	18.3
2023 - 2027	111.7	102.3

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The components of the Group's net periodic pension benefit costs for the years ended 31 December include the following:

	U.S.		
	2017	2016	
	\$m	\$m	
Service cost	8.7	9.4	
Interest cost	10.5	9.8	
Expected return on plan assets	(12.0)	(10.2)	
Net amortization of:			
Prior service costs	0.3	0.7	
Plan net actuarial losses	4.8	4.7	
Net periodic pension benefit cost	12.3	14.4	
	NON-U	J.S.	
	2017	2016	
	\$m	\$m	
Service cost	3.3	3.1	
Interest cost	8.9	10.7	
Expected return on plan assets	(14.3)	(13.7)	
Other adjustments	0.7	_	
Net amortization of:			
Plan net actuarial losses	1.9	2.2	
Net periodic pension benefit cost	0.5	2.3	
Net curtailment and settlement (gains) losses	0.1	0.3	
Net periodic pension benefit cost after net curtailment and settlement losses	0.6	2.6	

Pension expense for 2018 is projected to be approximately \$5.9 million, utilizing the assumptions for calculating the pension benefit obligations at the end of 2017. The amounts expected to be recognized in net periodic pension cost during the year ended 31 December 2018 for prior service cost and plan net actuarial losses are \$0.4 million and \$4.8 million, respectively.

Weighted-average assumptions used:

Net periodic pension cost for the year ended 31 December	2017	2016
Discount rate:		
U.S. plans	4.1%	4.3%
Non-U.S. plans	2.6%	3.7%
Rate of compensation increase:		
U.S. plans	3.5%	3.5%
Non-U.S. plans	3.2%	3.0%
Expected return on plan assets:		
U.S. plans	4.8%	5.5%
Non-U.S. plans	4.0%	4.5%

The expected long-term rate of return on plan assets reflects the average rate of returns expected on the funds invested or to be invested to provide for the benefits included in the projected benefit obligation. The expected long-term rate of return on plan assets is based on what is achievable given the plan's investment policy, the types of assets held and target asset allocations. The expected long-term rate of return is determined as of the measurement date. Each plan is reviewed, along with its historical returns and target asset allocations, to determine the appropriate expected long-term rate of return on plan assets to be used.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The overall objective in managing defined benefit plan assets is to ensure that all present and future benefit obligations are met as they come due. The goal is to achieve this while trying to mitigate volatility in plan funded status, contribution, and expense by better matching the characteristics of the plan assets to that of the plan liabilities. Each plan's funded status and asset allocation is monitored regularly in addition to investment manager performance.

The fair values of the Group's U.S. pension plan assets at 31 December 2017 by asset category are as follows:

	Fair value measurements				
-	Level 1	Level 2	Level 3	Assets measured at NAV	Total fair value
	\$m	\$m	\$m	\$m	\$m
Cash at bank and in hand and short term investments	_	3.2			3.2
Equity mutual funds			—	70.9	70.9
Fixed income investments:					
U.S. government and agency obligations		83.6			83.6
Corporate and non-U.S. bonds ^(a)		111.3		12.8	124.1
-		194.9		12.8	207.7
Total assets at fair value		198.1		83.7	281.8
Receivables and payables, net					1.4
Net assets available for benefits				-	283.2

(a) This includes state and municipal bonds.

No material transfers in or out of Level 3 occurred during the year ended 31 December 2017.

The fair values of the Group's U.S. pension plan assets at 31 December 2016 by asset category are as follows:

	Fair value measurements				
	Level 1	Level 2	Level 3	Assets measured at NAV	Total fair value
	\$m	\$m	\$m	\$m	\$m
Cash at bank and in hand and short term investments	_	5.6	_	_	5.6
Equity mutual funds				62.9	62.9
Fixed income investments:					
U.S. government and agency obligations		55.2			55.2
Corporate and non-U.S. bonds ^(a)		77.6	_	_	77.6
-		132.8			132.8
Total assets at fair value		138.4		62.9	201.3
Receivables and payables, net					1.1
Net assets available for benefits				-	202.4
				-	

(a) This includes state and municipal bonds.

No material transfers in or out of Level 3 occurred during the year ended 31 December 2016.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The Group determines the fair value of its U.S. plan assets using the following methodologies:

- *Cash at bank and in hand and short term investments* Short term investments are valued at the closing price or amount held on deposit by the custodian bank or at fair value by discounting the related cash flows based on current yields of similar instruments with comparable durations considering the credit-worthiness of the issuer. As these investments are not traded on active markets, these investments are classified as Level 2.
- *Equity mutual funds* Equity mutual funds are valued at their daily net asset value (NAV) per share or the equivalent. NAV per share or the equivalent is used for fair value purposes as a practical expedient. NAVs are calculated by the investment manager or sponsor of the fund.
- U.S. government and agency obligations Quoted market prices are not available for these securities. Fair values are estimated using pricing models and/or quoted prices of securities with similar characteristics or discounted cash flows. Such securities are classified as Level 2.
- *Corporate and non-U.S. bonds* Quoted market prices are not available for these securities. Fair values are estimated by using pricing models and/or quoted prices of securities with similar characteristics or discounted cash flows. Such securities are classified as Level 2.

The fair values of the Group's Non-U.S. pension plan assets at 31 December 2017 by asset category are as follows:

Fair value measurements				
Level 1	Level 2	Level 3	Assets measured at NAV	Total fair value
\$m	\$m	\$m	\$m	\$m
36.7				36.7
_	2.0		103.1	105.1
	176.9			176.9
		0.8		0.8
	46.7	2.3	29.9	78.9
36.7	225.6	3.1	133.0	398.4
	Level 1 \$m 36.7 	Level 1 Level 2 \$m \$m 36.7 2.0 176.9 46.7	Level 1 Level 2 Level 3 \$m \$m \$m 36.7 2.0 176.9 0.8 46.7 2.3	Level 1 Level 2 Level 3 Assets measured at NAV \$m \$m \$m \$m 36.7 2.0 103.1 176.9 0.8 46.7 2.3 29.9

(a) Primarily includes insurance contracts, mortgage-backed securities, and derivative contracts.

No material transfers in or out of Level 3 occurred during the year ended 31 December 2017.

The fair values of the Group's Non-U.S. pension plan assets at 31 December 2016 by asset category are as follows:

	Fair value measurements			
	Level 1	Level 1 Level 2		Total fair value
	\$m	\$m	\$m	\$m
Cash at bank and in hand	58.9		—	58.9
Equity mutual funds	—	107.2	—	107.2
Corporate and non-U.S. bonds	—	110.8	—	110.8
Real estate(a)	—	9.7	0.7	10.4
Other(b)		64.1	2.0	66.1
Total assets at fair value	58.9	291.8	2.7	353.4

- (a) Includes several private equity funds that invest in real estate. It includes both direct investment funds and funds-of-funds.
- (b) Primarily includes insurance contracts.

No material transfers in or out of Level 3 occurred during the year ended 31 December 2016.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The Group determines the fair value of its non-U.S. plan assets using the following methodologies:

- Cash at bank and in hand Cash at bank and in hand is valued using a market approach with inputs including quoted market prices for either identical or similar instruments.
- *Equity mutual funds* Equity mutual funds are valued at their daily net asset value (NAV) per share or the equivalent. NAV per share or the equivalent is used for fair value purposes as a practical expedient. NAVs are calculated by the investment manager or sponsor of the fund.
- *Corporate and non-U.S. bonds* Corporate and non-U.S. bonds are valued through a market approach with inputs including, but not limited to, benchmark yields, reported trades, broker quotes and issuer spreads.
- *Real estate* Private real estate fund values are reported by the fund manager and are based on valuation or appraisal of the underlying investments.

The Group made employer contributions of \$55.7 million to the U.S. pension plan in 2017, of which \$50.0 million was discretionary, and \$7.9 million in 2016. The Group did not make any required or discretionary contributions to the U.S. pension plans in 2015. The Group made required and discretionary contributions to its non-U.S. pension plans of \$5.2 million in 2017 and \$6.0 million in 2016.

The Group currently projects that an approximate \$13.5 million will be contributed to its U.S and non-U.S. plans in 2018. The Group's policy allows it to fund an amount, which could be in excess of or less than the pension cost expensed, subject to the limitations imposed by current tax regulations. The Group anticipates funding the plans in 2018 in accordance with contributions required by funding regulations or the laws of each jurisdiction.

Most of the Group's U.S. employees are covered by defined contribution plans. Employer contributions are determined based on criteria specific to the individual plans and amounted to approximately \$14.0 million and \$13.3 million in 2017 and 2016, respectively. The Group's contributions relating to non-U.S. defined contribution plans and other non-U.S. benefit plans were \$7.0 million, and \$5.6 million in 2017 and 2016, respectively.

Deferred Compensation Plan

The Group maintains an Executive Deferred Compensation Plan ("EDCP"), which is an unfunded, nonqualified plan that permits certain employees to defer receipt of up to 50% of their annual salary and up to 100% of their annual bonus awards, performance share plan awards, and restricted stock units received upon commencement of employment. As of 31 December 2017 the deferred compensation liability balance was \$20.9 million (2016: \$16.8 million).

Postretirement Benefits Other Than Pensions

The Group sponsors a postretirement plan that provides for healthcare benefits, and in some instances, life insurance benefits that cover certain eligible employees. The Group funds postretirement benefit obligations principally on a pay-as-you-go basis. Generally, postretirement health benefits are contributory with contributions adjusted annually. Life insurance plans for retirees are primarily noncontributory.

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

The following table details information regarding the Group's postretirement plans at 31 December:

	2017	2016	
	\$m	\$m	
Change in benefit obligations:			
Benefit obligation at beginning of year	9.7	12.9	
Service cost	0.1	0.1	
Interest cost	0.3	0.4	
Actuarial gains	0.1	(2.9)	
Benefits paid, net of Medicare Part D subsidy	(0.9)	(0.8)	
Benefit obligations at end of year	9.3	9.7	
Funded status:			
Plan assets less than benefit obligations	(9.3)	(9.7)	
Amounts included in the balance sheet:			
Accrued compensation and benefits	(0.9)	(0.9)	
Postemployment and other benefit liabilities	(8.4)	(8.8)	
Total	(9.3)	(9.7)	

The pretax amounts recognized in other reserves were as follows:

	Prior service gains		
	\$m	\$m	\$m
Balance at 31 December 2015	3.9	(1.2)	2.7
Current year changes recorded to other reserves		2.9	2.9
Amortization reclassified to profit and loss account	(1.6)		(1.6)
Balance at 31 December 2016	2.3	1.7	4.0
Current year changes recorded to other reserves		(0.2)	(0.2)
Amortization reclassified to profit and loss account	(1.7)		(1.7)
Balance at 31 December 2017	0.6	1.5	2.1

The components of net periodic postretirement benefit cost (income) for the years ended 31 December were as follows:

	2017	
	\$m	\$m
Service cost	0.1	0.1
Interest cost	0.3	0.4
Net amortization of:		
Prior service gains	(1.7)	(1.6)
Net actuarial income	(0.1)	
Net periodic postretirement benefit income	(1.4)	(1.1)

27. PENSIONS AND POST-RETIREMENT BENEFITS OTHER THAN PENSIONS (Continued)

Postretirement income for 2018 is projected to be \$0.5 million. Amounts expected to be recognized in net periodic postretirement benefits cost in 2018 for prior service gains and plan net actuarial losses are \$0.7 million and \$0.1 million, respectively.

Assumptions:	2017	2016
Weighted-average discount rate assumption to determine:		
Benefit obligations at 31 December	3.3%	3.5%
Net periodic benefit cost	3.5%	3.5%

The Group has capped the annual maximum amount it will pay for retiree healthcare costs. Accordingly, assumptions of healthcare cost trend rates are no longer applicable.

Benefit payments for postretirement benefits, which are net of expected participant contributions and Medicare Part D subsidy, are expected to be paid as follows:

	\$m
2018	0.9
2019	1.0
2020	0.9
2021	0.9
2022	0.8
2023 - 2027	3.5

28. FAIR VALUE MEASUREMENTS

Fair value is defined as the exchange price that would be received to sell an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Fair value measurements are based on a framework that utilizes the inputs market participants use to determine the fair value of an asset or liability and establishes a fair value hierarchy to prioritize those inputs. The fair value hierarchy is comprised of three levels that are described below:

- Level 1 Inputs based on quoted prices in active markets for identical assets or liabilities.
- Level 2 Inputs other than Level 1 quoted prices, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the asset or liability.
- Level 3 Unobservable inputs based on little or no market activity and that are significant to the fair value of the assets and liabilities.

The fair value hierarchy requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Observable inputs are obtained from independent sources and can be validated by a third party, whereas unobservable inputs reflect assumptions regarding what a third party would use in pricing an asset or liability based on the best information available under the circumstances. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

28. FAIR VALUE MEASUREMENTS (Continued)

Assets and liabilities measured at fair value at 31 December 2017 are as follows:

	Fair value measurements			
	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total fair value
	\$m	\$m	\$ m	\$m
Recurring fair value measurements				
Assets:				
Interest rate swap	_	5.3		5.3
Foreign currency contracts	—	0.2	_	0.2
Total asset recurring fair value measurements		5.5		5.5
Liabilities:				
Foreign currency contracts	—	0.7	—	0.7
Deferred compensation plans	_	20.9		20.9
Total liability recurring fair value measurements	_	21.6		21.6
Financial instruments not carried at fair value:				
Total debt	—	1,485.2	_	1,485.2
Total financial instruments not carried at fair value		1,485.2		1,485.2

Assets and liabilities measured at fair value at 31 December 2016 are as follows:

	Fair value measurements			
	Quoted PricesSignificantin ActiveOtherSignificantMarkets forObservableUnobservableIdentical AssetsInputsInputs(Level 1)(Level 2)(Level 3)		in Active Other Significant Markets for Observable Unobservable Identical Assets Inputs Inputs	Total fair value
	\$ m	\$ m	\$m	\$m
Recurring fair value measurements				
Assets:				
Interest rate swap		4.6		4.6
Foreign currency contracts	—	1.0	_	1.0
Total asset recurring fair value measurements		5.6		5.6
Liabilities:				
Foreign currency contracts	—	0.3		0.3
Interest rate swap	—	0.4		0.4
Deferred compensation plans	—	16.8		16.8
Total liability recurring fair value measurements		17.5		17.5
Financial instruments not carried at fair value:				
Total debt	—	1,510.6	_	1,510.6
Total financial instruments not carried at fair value		1,510.6		1,510.6

28. FAIR VALUE MEASUREMENTS (Continued)

The Group determines the fair value of its financial assets and liabilities using the following methodologies:

- *Interest rate swaps* These instruments include forward-starting interest rate swap contracts for \$250.0 million of the Group's variable rate debt. The fair value of the derivative instruments are determined based on quoted prices for the Group's swaps, which are not considered an active market.
- *Foreign currency contracts* These instruments include foreign currency contracts for non-functional currency balance sheet exposures. The fair value of the foreign currency contracts are determined based on a pricing model that uses spot rates and forward prices from actively quoted currency markets that are readily accessible and observable.
- *Deferred compensation plans* These include obligations related to deferred compensation adjusted for market performance. The fair value is obtained based on observable market prices quoted on public exchanges for similar instruments.
- *Debt* These securities are recorded at cost and include senior notes maturing through 2027. The fair value of the long-term debt instruments is obtained based on observable market prices quoted on public exchanges for similar instruments.

The carrying values of cash at bank and in hand, debtors, creditors and short-term borrowings are a reasonable estimate of their fair value due to the short-term nature of these instruments. The methodology used by the Group to determine the fair value of its financial assets and liabilities at 31 December 2017 is the same as those used at 31 December 2016. There have been no significant transfers between Level 1 and Level 2 categories.

29. PROVISIONS FOR LIABILITIES

	2017	2016
	\$m	\$m
Pensions & similar obligations	93.5	140.9
Taxation including deferred taxation	127.2	118.7
Other provisions for liabilities	57.7	57.6
At 31 December	278.4	317.2

The movement on other provisions for liabilities is as follows:

	Warranty	Environmental	Restructuring	Other	Total
	\$m	\$m	\$m	\$m	\$m
31 December 2015	11.7	15.2	10.2	53.0	90.1
Arising during the year	8.1	15.0	3.1	1.5	27.7
Utilised in the year	(6.5)	(7.6)	(9.6)	(43.7)	(67.4)
Changes in pre-existing accruals	0.2	8.3		(0.7)	7.8
Currency translation	(0.2)	(0.3)	(0.2)	0.1	(0.6)
31 December 2016	13.3	30.6	3.5	10.2	57.6
Arising during the year	9.0		12.3		21.3
Utilised in the year	(7.8)	(6.0)	(11.8)	(0.1)	(25.7)
Changes in pre-existing accruals	(0.8)	3.2		0.3	2.7
Currency translation	0.4	1.1	0.2	0.1	1.8
31 December 2017	14.1	28.9	4.2	10.5	57.7
Current	14.1	12.6	4.2	2.8	33.7
Non-current		16.3	_	7.7	24.0
31 December 2017	14.1	28.9	4.2	10.5	57.7

Refer to Note 11, Note 13, Note 27 and Note 30 for a detailed description of these provisions.

30. COMMITMENTS AND CONTINGENCIES

The Group is involved in various litigations, claims and administrative proceedings, including those related to environmental and product warranty matters. Amounts recorded for identified contingent liabilities are estimates, which are reviewed periodically and adjusted to reflect additional information when it becomes available. Subject to the uncertainties inherent in estimating future costs for contingent liabilities, except as expressly set forth in this note, management believes that any liability which may result from these legal matters would not have a material adverse effect on the financial condition, results of operations, liquidity or cash flows of the Group.

Environmental Matters

The Group is dedicated to an environmental program to reduce the utilization and generation of hazardous materials during the manufacturing process and to remediate identified environmental concerns. As to the latter, the Group is currently engaged in site investigations and remediation activities to address environmental cleanup from past operations at current and former production facilities. The Group regularly evaluates its remediation programs and considers alternative remediation methods that are in addition to, or in replacement of, those currently utilized by the Group based upon enhanced technology and regulatory changes. Changes to the Group's remediation programs may result in increased expenses and increased environmental reserves.

The Group is sometimes a party to environmental lawsuits and claims and has received notices of potential violations of environmental laws and regulations from the U.S. Environmental Protection Agency and similar state authorities. It has also been identified as a potentially responsible party ("PRP") for cleanup costs associated with off-site waste disposal at federal Superfund and state remediation sites. For all such sites, there are other PRPs and, in most instances, the Group's involvement is minimal.

In estimating its liability, the Group has assumed it will not bear the entire cost of remediation of any site to the exclusion of other PRPs who may be jointly and severally liable. The ability of other PRPs to participate has been taken into account, based on our understanding of the parties' financial condition and probable contributions on a per site basis. Additional lawsuits and claims involving environmental matters are likely to arise from time to time in the future.

The Group incurred \$3.2 million and \$23.3 million of expenses during the years ended 31 December 2017 and 2016, respectively, for environmental remediation at sites presently or formerly owned or leased by the Group. In the fourth-quarter of 2016, with the collaboration and approval of state regulators, the Group launched a proactive, alternative approach to remediate two sites in the United States. This approach will allow the Group to more aggressively address environmental conditions at these sites and reduce the impact of potential changes in regulatory requirements. As a result, the Group recorded a \$15 million charge for environmental remediation in the fourth quarter of 2016. Environmental remediation costs are recorded in cost of sales within the Consolidated Profit and Loss Account.

As of 31 December 2017 and 2016, the Group has recorded reserves for environmental matters of \$28.9 million and \$30.6 million, respectively. The total reserve at 31 December 2017 and 2016 included \$8.9 million and \$9.6 million, respectively, related to remediation of sites previously disposed by the Group. Environmental reserves are classified as other provisions for liabilities. The Group's total current environmental reserve at 31 December 2017 and 2016 was \$12.6 million and \$6.1 million, respectively, and the remainder is classified as noncurrent. Given the evolving nature of environmental laws, regulations and technology, the ultimate cost of future compliance is uncertain.

Warranty Liability

Standard product warranty accruals are recorded at the time of sale and are estimated based upon product warranty terms and historical experience. The Group assesses the adequacy of its liabilities and will make adjustments as necessary based on known or anticipated warranty claims, or as new information becomes available.

The changes in the standard product warranty liability for the year ended 31 December were as follows:

	2017	2016
	\$m	\$m
Balance at beginning of year	13.3	11.7
Reductions for payments	(7.8)	(6.5)
Accruals for warranties issued during the current year	9.0	8.1
Changes to accruals related to preexisting warranties	(0.8)	0.2
Translation	0.4	(0.2)
Balance at end of year	14.1	13.3

Standard product warranty liabilities are classified as other provisions for liabilities.

30. COMMITMENTS AND CONTINGENCIES (Continued)

Other Commitments and Contingencies

Certain office and warehouse facilities, transportation vehicles and data processing equipment are leased by the Group. Total rental expense was \$35.5 million in 2017 and \$32.5 million in 2016. Minimum lease payments required under non-cancellable operating leases with terms in excess of one year for the next five years are as follows: \$20.5 million in 2018, \$17.9 million in 2019, \$13.0 million in 2020, \$8.0 million in 2021, and \$4.0 million in 2022.

31. SHARE-BASED COMPENSATION

The Group records share-based compensation awards using a fair value method and recognizes compensation expense for an amount equal to the fair value of the share-based payment issued in its financial statements. The Group's share-based compensation plans include programs for stock options, restricted stock units ("RSUs"), performance stock units ("PSUs"), and deferred compensation.

Under the Group's incentive stock plan, the total number of ordinary shares authorized by the shareholders is 8.0 million, of which 3.4 million remains available as of 31 December 2017 for future incentive awards.

Compensation Expense

Share-based compensation expense is included in cost of sales and administrative expenses. The following table summarizes the expenses recognized for the years ended 31 December:

	2017	2016
	\$m	\$m
Stock options	3.3	4.1
RSUs	7.0	7.7
PSUs	5.8	4.8
Deferred compensation	2.8	0.8
Pre-tax expense	18.9	17.4
Tax benefit	(6.4)	(5.6)
Total	12.5	11.8

Stock Options / RSUs

Eligible participants may receive (i) stock options, (ii) RSUs or (iii) a combination of both stock options and RSUs. The fair value of each of the Group's stock option and RSU awards is expensed on a straight-line basis over the required service period, which is generally the 3-year vesting period. However, for stock options and RSUs granted to retirement eligible employees, the Group recognizes expense for the fair value at the grant date.

The average fair value of the stock options granted for the year ended 31 December 2017 and 2016 was estimated to be \$18.22 per share and \$15.86 per share, respectively, using the Black-Scholes option-pricing model. The weighted average assumptions used were the following:

	2017	2016
Dividend yield	0.89%	0.83%
Volatility	24.93%	28.85%
Risk-free rate of return	2.08%	1.38%
Expected life	6.0 years	6.0 years

Expected volatility is based on the weighted average of the implied volatility of a group of the Group's peers. The risk-free rate of return is based on the yield curve of a zero-coupon U.S. Treasury bond on the date the award is granted with a maturity equal to the expected term of the award. Historical peer data is used to estimate forfeitures within the Group's valuation model. The expected life of the Group's stock option awards granted post separation is derived from the simplified approach based on the weighted average time to vest and the remaining contractual term, and represents the period of time that awards are expected to be outstanding.

31. SHARE-BASED COMPENSATION (Continued)

Changes in options outstanding under the plans for the years ended 31 December 2017 and 2016 are as follows:

	Shares subject to option	Weighted- average exercise price (a) (\$)	Aggregate intrinsic value (\$m)	Weighted- average remaining life (years)
31 December 2015	1,592,167	33.91		
Granted	231,521	57.91		
Exercised	(447,019)	26.04		
Canceled	(63,599)	53.40		
31 December 2016	1,313,070	39.87		
Granted	165,113	71.84		
Exercised	(410,397)	31.54		
Canceled	(15,906)	60.84		
Outstanding 31 December 2017	1,051,880	47.80	33.4	6.0
Exercisable 31 December 2017	696,929	39.46	27.9	4.8

(a) The weighted average exercise price of awards represents the exercise price of the awards on the grant date converted to ordinary shares of the Group.

The following table summarizes information concerning currently outstanding and exercisable options:

		Ор	Options outstanding		Орг	tions exercisable	
Rang exercise		Number outstanding at 31 December 2017	Weighted- average remaining life (years)	Weighted- average exercise price (\$)	Number outstanding at 31 December 2017	Weighted- average remaining life (years)	Weighted- average exercise price (\$)
10.01 -	- 20.00	88,965	1.5	15.17	88,965	1.5	15.17
20.01 -	- 30.00	149,055	2.6	26.62	149,055	2.6	26.62
30.01 –	- 40.00	82,043	4.7	32.33	82,043	4.7	32.33
40.01 –	- 50.00	128,503	6.0	43.37	128,503	6.0	43.37
50.01 –	- 60.00	442,663	7.1	56.92	248,295	6.7	56.19
60.01 –	- 70.00	421	8.8	63.93		0	_
70.01 –	- 80.00	160,230	9.0	71.84	68	2.7	71.35
		1,051,880	6.0	47.80	696,929	4.8	39.46

At 31 December 2017, there was \$2.4 million of total unrecognized compensation cost from stock option arrangements granted under the plan, which is primarily related to unvested shares of non-retirement eligible employees. The aggregate intrinsic value of the Group's options exercised during the year ended 31 December 2017 and 2016 was \$17.5 million and \$18.3 million, respectively. Generally, stock options expire ten years from their date of grant.

31. SHARE-BASED COMPENSATION (Continued)

The following table summarizes RSU activity for the years ended 31 December 2017 and 2016:

	RSUs	Weighted- average grant date fair value (a) (\$)
Outstanding and unvested at 31 December 2015	344,930	49.59
Granted	123,299	59.49
Vested	(220,854)	45.83
Canceled	(41,741)	52.40
Outstanding and unvested at 31 December 2016	205,634	58.99
Granted	124,933	73.76
Vested	(90,523)	58.78
Canceled	(10,038)	60.47
Outstanding and unvested at 31 December 2017	230,006	66.83

(a) The weighted average grant date fair value represents the fair value of the awards on the grant date converted to ordinary shares of the Group.

At 31 December 2017, there was \$6.5 million of total unrecognized compensation cost from RSU arrangements granted under the plan, which is related to unvested shares of non-retirement eligible employees.

Performance Shares

The Group has a Performance Share Program ("PSP") for key employees which provides awards in the form of Performance Share Units ("PSU") based on performance against pre-established objectives. The annual target award level is expressed as a number of the Group's ordinary shares. All PSUs are settled in the form of ordinary shares unless deferred.

In February 2016 and 2017, the Group's Compensation Committee granted PSUs that were earned based 50% upon a performance condition, measured at each reporting period by earnings per share ("EPS") performance in relation to pre-established targets set by the Compensation Committee, and 50% upon a market condition, measured by the Group's relative total shareholder return ("TSR") against the S&P 400 Capital Goods Index over a three-year performance period based on the change in the 30 day average price for the grant year index to the 30 day average price for the index over the performance period. The fair values of the market conditions are estimated using a Monte Carlo simulation approach in a risk-neutral framework to model future stock price movements based upon historical volatility, risk-free rates of return, and correlation matrix.

The following table summarizes PSU activity for the maximum number of shares that may be issued for the years ended 31 December 2017 and 2016:

	PSUs	Weighted-average grant date fair value (a) (\$)
Outstanding and unvested at 31 December 2015	202,043	64.92
Granted	94,201	64.83
Vested	(64,979)	72.69
Forfeited	(21,661)	57.07
Outstanding and unvested at 31 December 2016	209,604	56.02
Granted	99,832	78.13
Vested	(146,830)	72.01
Forfeited	(1,783)	67.10
Outstanding and unvested at 31 December 2017	160,823	55.02

(a) The weighted average grant date fair value represents the fair value of the awards on the grant date converted to ordinary shares of the Group.

31. SHARE-BASED COMPENSATION (Continued)

At 31 December 2017, there was \$4.2 million (2016: \$4.6 million) of total unrecognized compensation cost from the PSP based on current performance, which is related to unvested shares. This compensation will be recognized over the required service period, which is generally the three-year vesting period.

Deferred Compensation

The Group allows key employees to defer a portion of their eligible compensation into a number of investment choices, including its ordinary share equivalents. Any amounts invested in ordinary share equivalents will be settled in ordinary shares of the Group at the time of distribution.

32. CALLED UP SHARE CAPITAL PRESENTED AS EQUITY

The authorized share capital of Allegion is as follows;

	2017	2016
	\$m	\$m
Authorized:		
40,000 ordinary shares of €1 par value		
400,000,000 ordinary shares of \$0.01 par value	4.0	4.0
10,000,000 preference shares of \$0.001 par value	_	
At 31 December	4.0	4.0

No preference shares were outstanding at 31 December 2017 or 2016.

A reconciliation of ordinary shares is as follows:

Allotted, called up and fully paid equity:

Ordinary shares of \$0.01 each	Number	\$m
At 1 January 2016	95,991,259	1.0
Repurchase of ordinary shares	(1,349,495)	_
Issuance of ordinary shares in respect of share based payment plans	632,163	
At 31 December 2016	95,273,927	1.0
Repurchase of ordinary shares	(789,614)	_
Issuance of ordinary shares in respect of share based payment plans	578,072	_
At 31 December 2017	95,062,385	1.0

Share repurchases

On 2 February 2017, the Group's Board of Directors approved a new stock repurchase authorization of up to \$500 million of the Group's ordinary shares. This new stock repurchase authorization replaced the authorization established in 2014. During the year ended 31 December 2017, the Group paid \$60.0 million to repurchase and cancel 0.8 million ordinary shares of \$0.01 each, at a weighted average price of \$75.97.

During the year ended 31 December 2016 the Group repurchased and cancelled 1.3 million ordinary shares of \$0.01 each, or 1% of issued shares, at a weighted average price of \$63.10.

33. MOVEMENT ON RESERVES

	Share premium	Other reserves	Profit and loss account	Total
	\$m	\$m	\$m	\$m
At 31 December 2015	49.2	(203.7)	179.1	24.6
Profit for the year			229.1	229.1
Other		—	(0.2)	(0.2)
Pension and OPEB items		18.8		18.8
Foreign currency items		(40.3)		(40.3)
Cash flow hedges and marketable securities	_	(10.6)	_	(10.6)
Shares issued under incentive stock plans	5.8			5.8
Share-based compensation	_	16.6		16.6
Acquisition / divestiture of non-controlling interest	_	(0.4)		(0.4)
Repurchase of ordinary shares	_		(85.1)	(85.1)
Cash dividends declared (\$0.48 per share)	_		(46.0)	(46.0)
At 31 December 2016	55	(219.6)	276.9	112.3
Cumulative effect of change in accounting principle			(5.0)	(5.0)
Profit for the year		—	273.3	273.3
Pension and OPEB items		19.3		19.3
Foreign currency items		98.1		98.1
Cash flow hedges and marketable securities		0.4		0.4
Shares issued under incentive stock plans	7.2			7.2
Share-based compensation		15.8		15.8
Acquisition / divestiture of non-controlling interest				
Repurchase of ordinary shares			(60.0)	(60.0)
Cash dividends declared (\$0.64 per share)			(60.9)	(60.9)
Other		(6.4)	6.5	0.1
At 31 December 2017	62.2	(92.4)	430.8	400.6

Dividends declared and paid during the year

	2017	2016
Equity dividends on ordinary shares:	\$m	\$m
First interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Second interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Third interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Fourth interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.3	11.5
At 31 December	60.9	46.0

Future dividends

Future dividends on our ordinary shares, if any, will be at the discretion of our Board of Directors and will depend on, among other things, our results of operations, cash requirements and surplus, financial condition, contractual restrictions and other factors that the Board of Directors may deem relevant, as well as our ability to pay dividends in compliance with the Irish Companies Act. Under the Irish Companies Act, dividends and distributions may only be made from distributable reserves. Distributable reserves, broadly, means the accumulated realized profits of Allegion plc (ALLE-Ireland). In addition, no distribution or dividend may be made unless the net assets of ALLE-Ireland are equal to, or in excess of, the aggregate of ALLE-Ireland's called up share capital plus undistributable reserves and the distribution does not reduce ALLE-Ireland's net assets below such aggregate.

34. LOANS TO DIRECTORS

Irish company law prohibits the Group from making a loan or a quasi loan to a director of the Group unless certain conditions are met. No loans or quasi-loans have been made to any director of the Group during the financial year.

35. CAPITAL EXPENDITURE COMMITMENTS

	2017	2016
	\$m	\$m
Capital expenditure that has been authorized by the Directors but not yet been contracted	19.3	9.3

36. RELATED PARTY DISCLOSURES

The principal related party relationships requiring disclosure in the Consolidated Financial Statements pertain to the existence of subsidiaries and associates and transactions with these entities entered into by the Group and the identification of key management personnel as addressed in greater detail below.

Subsidiaries and Associates

The Consolidated Financial Statements include the results of operations, financial positions and cash flows of the Group and its subsidiaries and associates over which the Group has control or which otherwise qualify for consolidation or equity accounting. A listing of the principal subsidiaries and associates is provided in Note 37. Associates not consolidated or equity accounted are included in Note 18 to the Consolidated Financial Statements.

Trading Transactions

There were no transactions requiring disclosure under Sch. 3, Section 67 (1) of the Irish Companies Act 2014.

Compensation of Key Management Personnel of the Group

Key management personnel are the Group's executive and non-executive directors and the following is the aggregate compensation of these directors.

	2017	2016
	\$m	\$m
Emoluments	4.0	4.1
Benefits under long term incentive schemes	9.3	5.7
Contributions to retirement benefits schemes: Defined contribution	0.2	0.2
At 31 December	13.5	10.0

37. PRINCIPAL SUBSIDIARIES AND ASSOCIATES

The subsidiary and associate undertakings at 31 December 2017 are listed below:

Name	Nature of business	Registered office	Country of Incorporation	Percentage of ownership
A.B.S R.I.C.A.	Trading company	1, Rue Paul-Henri Spaak, Saint Thibault de Vignes, 77463	France	100%
Allegion B.V.	Manufacturing & Distribution	Witboom 1, Vianen, 4131PL	Netherlands	100%
Allegion LLC	Holding Company	c/o The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801	US	100%
Allegion NV	Manufacturing & Distribution	Pontbeekstraat 2, 1702 Groot- Bijgaarden	Belgium	100%

Allegion SA	Non-Operating	Av. Principal de Boleita con calle Maraima,Galpon Trane Nros. S/N, Urb. Boleita Norte, Municipo Sucre del Estado Miranda	Venezuela	100%
Allegion (Australia) Pty Limited	Trading Company	16-20 Third Avenue, Sunshine, Victoria 3020	Australia	100%
Allegion Canada Inc.	Trading Company	2900-550 Burrard Street, Vancouver, BC, V6C 0A3	Canada	100%
Allegion Chile SpA	Manufacturing & Distribution	Calle Huerfanos 770, Piso 4, Comuna de Santiago	Chile	100%
Allegion Colombia S.A.S.	Holding Company	Carrera 26 #12A-20, Bogota	Colombia	100%
Allegion de Mexico, S. de R.L. de C.V.	Manufacturing & Distribution	Los Olivos 698 S/N, Chavez Tecate, 21440	Mexico	100%
Allegion Deutsche Holding GmbH	Holding Company	Schwarzwaldstrasse 15, 77871 Renchen	Germany	100%
Allegion EMEA BVBA	Holding Company	Bloomz Building - Lambroekstraat 5A,B-1831, Belgium	Belgium	100%
Allegion Emniyet ve Guvenlik Sistemleri Sanayi AS	Manufacturing & Distribution	No: 45 Kar Plaza Kat 12, Kayisdagi Cad. Karaman Ciftlik Yolu, Icerenkoy, Istanbul, 34752	Turkey	100%
Allegion Finance Inc.	Holding Company	c/o The Corporation Trust Company, Corporate Trust Centre, 1209 Orange St., Wilmington, DE, 19801	US	100%
Allegion Fu Hsing Limited	Trading company	29th Floor, Fortis Tower, No. 77-79, Gloucester Road, Wanchai	Hong Kong	51%
Allegion Fu Hsing Holdings Limited	Holding Company	c/o Commonwealth Trust Limited, Drake Chambers, Tortola	BVI	51%
Allegion German Financing GmbH & Co. KG	Holding Company	Zettachring 16, 70567 Stuttgart, Germany	Germany	100%
Allegion German Holding I GmbH	Holding Company	Zettachring 16, 70567 Stuttgart, Germany	Germany	100%
Allegion German Holding II GmbH	Holding Company	Zettachring 16, 70567 Stuttgart, Germany	Germany	100%
Allegion (Gibraltar) Holding Limited	Holding Company	57/63, Line Wall Road	Gibraltar	100%
Allegion (Hong Kong) Limited	Trading company	29th Floor, Fortis Tower, No. 77-79 Gloucester Road, Wanchai	Hong Kong	100%
Allegion Immobilien GmbH	Trading company	Interflex Datensysteme GmbH, Zettachring 16, D-70567, Stuttgart	Germany	100%
Allegion India Private Limited	Trading company	10th floor Tower C, IBC Knowledge Park, 4/1 Bannerghatta Main Road, Bangalore - 560029	India	100%
Allegion International AG	Manufacturing & Distribution	Tafernhof, Mellingerstrasse 207, Baden-Dattwil, CH-5405	Switzerland	100%
Allegion Investments (UK) Limited	Holding Company	35 Rocky Lane, Aston, Birmingham, B6 5RQ United Kingdom	United Kingdom	100%
Allegion Investments Holding LLC	Holding Company	c/o The Corporation Trust Company, Corporate Trust Centre, 1209 Orange St., Wilmington, DE, 19801	US	100%
Allegion Irish Holding Company III Limited	Dormant Company	Block D, Iveagh Court, Harcourt Road, Dublin 2	Ireland	100%
Allegion Irish Holding Company II Ltd	Holding Company	Block D Iveagh Court, Harcourt Road, Dublin 2, Ireland, Europe	Ireland	100%
Allegion Irish Holding Company Limited	Holding Company	Block D, Iveagh Court, Harcourt Road, Dublin 2	Ireland	100%
Allegion (Ireland) Finance Designated Activity Company	Dormant Company	Block D, Iveagh Court, Harcourt Road, Dublin 2	Ireland	100%

Allegion Korea Ltd.	Dormant Company	Chuneui-dong, Chuneui Techno Park 2cha) 9th floor, 201dong, 18, Bucheon- ro 198beon-gil, Wonmi-gu, Bucheon- si, Gyeonggi-do	Korea	100%
Allegion Luxembourg Holding and Financing S.à r.l.	Holding Company	26,boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion Luxembourg Holding II SCS	Holding Company	26,boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion Luxembourg Holding III S.á.r.l	Holding Company	26, boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion Lux Financing I S.à r.l	Holding Company	26, boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion Lux Financing II S.à r.l.	Holding Company	26, boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion Lux Financing III S.à r.l.	Holding Company	26, boulevard Royal, L-2449, Luxembourg	Luxembourg	100%
Allegion (New Zealand) Limited	Manufacturing & Distribution	437 Rosebank Road, Avondale Box 19034, Avondale, Auckland	New Zealand	100%
Allegion (Southeast Asia) Pte. Ltd. *	Trading company	178 Paya Lebar Road, 04-10, Paya Lebar 178, Singapore (409030), Singapore	Singapore	100%
Allegion (Thailand) Limited	Non-Operating	140/37 New ITF Tower, 17th Floor, Silom Rd, Bangrak 1500 Bankok	Thailand	100%
Allegion Panama, S. de R.L.	Trading company	Avenida Samuel Lewis y Calle 54 St, Edificio AFRA, Panamá, República de Panamá	Panama	100%
Allegion S&S Holding Company Inc.	Holding Company	c/o The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801	US	100%
Allegion S&S Lock Holding Company Inc.	Holding Company	c/o The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801	US	100%
Allegion Security Technologies (China) Co. Ltd.	Manufacturing & Distribution	Building No.10, No. 8158, Tingwei Road, Jinshan Industrial Zone, Shanghai	China	100%
Allegion (UK) Limited	Trading Company	35 Rocky Lane, Aston, Birmingham, B6 5RQ United Kingdom	United Kingdom	100%
Allegion US Holding Company Inc.	Holding Company	c/o The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801	US	100%
Allegion Ventures LLC	Non-Operating	11819 North Pennsylvania Street, Carmel, IN, 46032, United States, North America	US	100%
AXA Stenman Deutschland GmbH	Trading company	An der Silberkuhle 1, D-58239, Schwerte, Germany	Germany	100%
AXA Stenman France S.A.S.	Manufacturing & Distribution	Usine de Beaulieu, 58500 Clamecy	France	100%
AXA Stenman Holding B.V.	Holding Company	Energiestraat 2, NL-3903 AV Veenendaal, the Netherlands	Netherlands	100%
AXA Stenman Industries B.V.	Holding Company	Energiestraat 2, NL-3903 AV Veenendaal, the Netherlands	Netherlands	100%
AXA Stenman Nederland B.V	Manufacturing & Distribution	Energiestraat 2, NL-3903 AV Veenendaal, the Netherlands	Netherlands	100%
AXA Stenman Poland Sp Z.O.O	Manufacturing & Distribution	ul. Warszawska, nr 29, 42-470 Siewierz	Poland	100%
BASTA Group A/S Denmark	Holding Company	c/o Accura Advokatpartnerselskab Tuborg Boulevard 1, 2900 Hellerup	Denmark	100%

Trading Company	F Zone, Builing J, Jingxin Yuan, No. 25, Beiwucun Road, Haidian District, Beijing	China	100%
Manufacturing & Distribution	No. 6, Caiyuan Road, Nancai Town, Shunyi District, Beijing	China	17%
Manufacturing & Distribution	Unit B, 9th Floor, Bldg C, Qinghua Tongfang Information Center, 11 Langshan Road, North High Tech Industrial Zone, Shenzhen, China	China	15%
Manufacturing & Distribution	1, Rue Paul-Henri Spaak, Saint Thibault de Vignes, 77463	France	100%
Manufacturing & Distribution	Poligono Industrial La Charluca, Calle F, parcela M16-17, 50300 Calatayud, Zaragoza	Spain	100%
Manufacturing & Distribution	no 42, Via Oberdan, Faenza, 48018	Italy	100%
Trading Company	Elsies River, 7490	South Africa	25%
Non-Operating	C T Corporation System, 208 S. LaSalle Street, Chicago, IL, 60604	US	100%
Trading Company	6505 S. Crescent Blvd., Pennsauken, NJ, 08110	US	100%
Trading Company	16-20 Third Avenue, Sunshine, VIC, 3020	Australia	100%
Trading Company	11819 North Pennsylvania Street, Carmel, Indiana, 46032	US	100%
Holding Company	2F, 336 Chang Sheng Road, Gao Xiong	Taiwan	100%
Manufacturing & Distribution	c/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801	US	100%
Trading Company	c/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801	US	100%
Trading Company	c/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801	US	100%
Manufacturing & Distribution	Geisselbergstrasse 19/3/6, Vienna, 1110	Austria	100%
Manufacturing & Distribution	Zettachring 16, D-70567, Stuttgart	Germany	100%
Manufacturing & Distribution	(Chun Eui Techno Park 2cha, Chuneui- dong) 9th floor, 201dong located at 18, Bucheon-ro 198beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do	Korea	100%
Non-Operating	35 Rocky Lane, Aston, Birmingham, B6 5RQ United Kingdom	United Kingdom	100%
Manufacturing & Distribution	Schwarzwaldstrasse 15, Postfach 1261, Renchen, D-77871	Germany	100%
Manufacturing & Distribution	1 RUE DE L'ARTISANAT, 67240, BISCHWILLER	France	100%
Non-Operating	35 Rocky Lane, Aston, Birmingham, B6 5RQ United Kingdom	United Kingdom	100%
Non-Operating	35 Rocky Lane, Aston, Birmingham, B6 5RQ United Kingdom	United Kingdom	100%
Manufacturing & Distribution	CT Corporation System, 818 West Seventh Street, Los Angeles, CA, 90017	US	100%
	Manufacturing & Distribution Manufacturing & Distribution Manufacturing & Distribution Manufacturing & Distribution Trading Company Trading Company Trading Company Manufacturing & Distribution Trading Company Manufacturing & Distribution Manufacturing & Manufacturing & Manufacturing & Manufacturing & Manufacturing & Manufacturing &	25. Beiwucun Road, Haidian District, BeijingManufacturing & DistributionNo. 6, Caiyuan Road, Nancai Town, Shunyi District, BeijingManufacturing & DistributionUnit B, 9th Floor, Bldg C, Qinghua Tongfang Information Center, 11 Langshan Road, North High Tech Industrial Zone, Shenzhen, ChinaManufacturing & Distribution1, Rue Paul-Henri Spaak, Saint Thibault de Vignes, 77463Manufacturing & DistributionPoligono Industrial La Charluca, Calle F, parcela M16-17, 50300 Calatayud, ZaragozaManufacturing & Distributionno 42, Via Oberdan, Faenza, 48018Trading CompanyElsies River, 7490Non-OperatingC T Corporation System, 208 S. LaSalle Street, Chicago, IL, 60604Trading Company16-20 Third Avenue, Sunshine, VIC, 3020Trading Company16-20 Third Avenue, Sunshine, VIC, 3020Trading Company2F, 336 Chang Sheng Road, Gao XiongManufacturing & C/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801Trading Companyc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801Trading Companyc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801Trading Companyc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801Trading Companyc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801Manufacturing & DistributionGeisselbergstrasse 19/3/6, Vienna, 1110Manufacturing & DistributionChune Lui Techno Park 2cha, Chuneui-	25. Beiwucun Road, Haidian District, BeijingManufacturing & DistributionNo. 6, Caiyuan Road, Nancai Town, Shunyi District, BeijingChinaManufacturing & DistributionUnit B, 9th Floor, Bldg C, Qinghua Tongfang Information Center, 11 I Langshan Road, North High Tech Industrial Zone, Shenzhen, ChinaChinaManufacturing & Distribution1, Rue Paul-Henri Spaak, Saint Thibault de Vignes, 77463FranceManufacturing & DistributionPoligono Industrial La Charluca, Calle E, parcela M16-17, 50300 Calatayud, ZaragozaSpainManufacturing & DistributionC T Corporation System, 208 S. LaSalle Street, Chicago, IL, 60604USTrading Company I Elses River, 7490South AfricaNon-Operating Or C T Corporation System, 208 S. LaSalle Street, Chicago, IL, 60604USTrading Company I 16-20 Third Avenue, Sunshine, VIC, AustraliaAustraliaManufacturing & Olding Company16-20 Third Avenue, Sunshine, VIC, AustraliaAustraliaManufacturing & Coatte, DE, 19801USSistributionTrading Company Distributionc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801USTrading Company Distributionc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801SustriaTrading Company Distributionc/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801SustriaTrading Company DistributionZettachring 16, D-70567, StuttgartGermanyManufacturing & Distribution

Republic Doors and Frames, LLC	Manufacturing & Distribution	11819 North Pennsylvania Street, Carmel, IN, 46032, United States, North America	US	100%
S&S Lock Insurance (Arizona) Company	Non-Operating	c/o Aon Insurance Managers (USA) Inc., 2555 E. Camelback Road, Suite 700, Phoenix, AZ 85016	US	100%
Schlage de Mexico SA de CV	Manufacturing & Distribution	Los Naranjos No. 648, Col. El Encanto, Baja California, 21440 Tecate	Mexico	100%
Schlage Lock Company LLC	Manufacturing & Distribution	c/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801	US	100%
Shanghai Bocom Video Communication System Co. Ltd.	Trading Company	Room 1007, No. 1027, Changning Road, Changning District, Shanghai	China	100%
SimonsVoss Security Technologies Sdn. Bhd.	Trading company	1 & 1A, 2nd floor (room 2) Jalan Ipoh Kecil 50350 Kuala Lumpur, Malaysia	Malaysia	100%
SimonsVoss Technologies AB	Trading company	Krejaren 2, Ostermalmstorg 1, 114 42 Stockholm, Sweden	Sweden	100%
SimonsVoss Technologies BV	Trading company	Evert van de Beekstraat 104, 118CN Schiphol	Netherlands	100%
SimonsVoss Technologies FZE	Trading company	Office No. LB05118, Jebel Ali, Dubai	United Arab Emirates	100%
SimonsVoss Technologies GmbH	Manufacturing & Distribution	Feringstrasse 4, 85774, Unterfoehring	Germany	100%
SimonsVoss Technologies Limited (Hong Kong)	Trading company	15F OTB Building 160, Gloucester Road	Hong Kong	100%
SimonsVoss Technologies Limited (UK)	Trading company	c/o Pini Franco LLP, 22-24 Ely Place, London EC1N 6TE	United Kingdom	100%
SimonsVoss Technologies SAS	Trading company	1-3 Rue des Remparts, F 93160 Noisy- le-Grand	France	100%
Trelock Asia Pacific Limited Hong Kong	Trading company	36/F Tower Two, Times Square, 1 Matheson St, Causeway Bay	Hong Kong	100%
Trelock GmbH	Trading company	Johann-Krane-Weg 37, 48149 Munster	Germany	100%
Trelock Production GmbH	Manufacturing & Distribution	Johann-Krane-Weg 38, 48419, Munster	Germany	100%
Trelock Trading (Shenzhen) Company Ltd.	Trading company	No 110 store, Garden City Phase 1, South Sea Avenue, Shekou, Nanshan District, Shenzhen	China	100%
XceedID Corporation	Manufacturing & Distribution	c/o The Corporation Trust Company, 1209 Orange Street, Wilmington, New Castle, DE, 19801	US	100%
Von Duprin LLC	Non-Operating	150 West Market Street, Suite 800, Indianapolis, IN, 46204	US	100%
Zero Seal Systems Limited	Trading company	43-45 Ladford Covert, Seighford, Stafford, Staffordshire, ST18 9QG	United Kingdom	51%

* Formerly known as SimonsVoss Security Technologies (Asia) Pte. Ltd.)

38. EVENTS SINCE YEAR END

Dividends declared

On 8 February 2018, the Group's Board of Directors declared a quarterly dividend of \$0.21 cents per ordinary share. The dividend is payable 29 March 2018 to shareholders of record on 15 March 2018.

Share repurchases

During February and March 2018, the Group repurchased and cancelled 351,826 ordinary shares of \$0.01 each, at a weighted average price of \$85.24.

Retirement of director

On 7 February 2018, Michael J. Chesser, a member of the Board of Directors of Allegion plc, retired from the Board.

Acquisitions

Subsequent to the year ended 31 December 2017, the Group completed four acquisitions:

Business	Date
Technical Glass Products, Inc. ("TGP")	January 2018
Hammond Enterprises, Inc. ("Hammond")	January 2018
Qatar Metal Industries LLC ("QMI")	February 2018
AD Systems, Inc. ("AD Systems")	March 2018

In January 2018, the Group acquired 100% of TGP through one of its subsidiaries. TGP provides glass and framing solutions for commercial buildings, as well as non-fire rated architectural glass and framing, including channel glass systems and curtain walls throughout the United States, Canada, and select markets in the Middle East. TGP will be incorporated into the Group's Americas and EMEIA segments.

In January 2018, the Group acquired 100% of the machinery, equipment, and intellectual property of a division of Hammond through one of its subsidiaries. The assets acquired will be integrated into the Group's existing production facilities and are specific to the Group's Schlage branded products.

In February 2018, the Group acquired 100% of QMI through one of its subsidiaries. QMI specializes in fire rated and non-fire rated steel and wooden doors, acoustic doors, and wooden cabinets, as well as fire rated curtain wall systems and access panels in Qatar, Saudi Arabia, Bahrain, Oman, Kuwait, the United Arab Emirates, and Africa. QMI will be incorporated into the Group's EMEIA segment.

In March 2018, the Group acquired 100% of AD Systems through one of its subsidiaries. AD Systems designs and manufactures high-performance interior and storefront door systems, specializing in sliding and acoustic solutions. AD Systems' portfolio includes sliding and swinging doors, perimeter frames, door hardware, gasketing, seals and sidelite panels. AD Systems has been incorporated into the Group's Americas segment.

Total consideration paid for these four acquisitions at closing was approximately \$271 million (net of cash acquired), with additional consideration approximating \$12 million to be paid subject to a retention and transition period for two of these acquisitions. Cash on hand was utilized to fund these acquisitions.

Based on the preliminary allocation of the aggregate purchase price to assets acquired and liabilities assumed for these acquisitions, approximately \$1 million has been allocated to net working capital, approximately \$26 million to long-term tangible assets, approximately \$150 million to indefinite-lived and finite-lived intangible assets, and the remaining approximately \$106 million to goodwill. Goodwill is expected to be deductible for tax purposes.

39. GENERAL INFORMATION

Allegion plc is a public limited company which is listed on the New York Stock Exchange and is incorporated and domiciled in the Republic of Ireland.

Registered Office	Solicitors
Block D	Arthur Cox
Iveagh Court	Earlsfort Centre
Harcourt Road	Earlsfort Terrace
Dublin 2	Dublin 2
Ireland	Ireland
Registered Number 527370	Independent Auditors
	PricewaterhouseCoopers
Principal Bankers	Chartered Accountants and Registered Auditors
JPMorgan Chase Bank	One Spencer Dock
25 Bank Street	North Wall Quay
Canary Wharf	Dublin 1
London E14 5JP	Ireland
England	

40. APPROVAL OF FINANCIAL STATEMENTS

The Consolidated Financial Statements were approved by the board of directors of the Group on 4 April 2018.

Allegion plc Parent Company Balance Sheet At 31 December 2017

	Note	2017	2016
		\$ m	\$m
Fixed assets			
Investments	7	5,233.9	5,224.0
		5,233.9	5,224.0
Current assets			
Debtors	8	3.8	53.6
Cash at bank and in hand		0.7	0.5
		4.5	54.1
Creditors: amounts falling due within one year	9	(35.5)	(51.7)
Net current assets	-	(31.0)	2.4
Total assets less current liabilities	-	5,202.9	5,226.4
Creditors: amounts falling due after more than one year	9	(650.5)	(1,123.6)
Net assets		4,552.4	4,102.8
Capital and reserves			
Called up share capital presented as equity	11	1.0	1.0
Share premium	12	55.4	42.5
Capital redemption reserve	12	_	_
Share based payment reserve	12	46.6	36.8
Profit and loss account	12	4,449.4	4,022.5
Shareholders' funds	_	4,552.4	4,102.8

The Company recorded a profit of \$547.8 million for the year ended 31 December 2017 (2016: loss of \$33.9 million).

Approved by the Board of Directors on 4 April 2018 and signed on its behalf by:

David D. Petratis

David D. Petratis Director Martin E. Welch III

Martin E. Welch III Director

Allegion plc Parent Company Statement of changes in equity For the year ended 31 December 2017

	Called up share capital presented as equity	Capital redemption reserve	Share premium	Share based payment reserve	Profit and loss account	Total
		\$m	\$m	\$m	\$m	\$m
At 1 January 2016	1.0	_	30.8	26.1	4,187.5	4,245.4
Issuance of ordinary shares in respect of share based payment plans			11.7			11.7
Share based payment charge for the year	—	—		10.7		10.7
Loss for the financial year			—	—	(33.9)	(33.9)
Repurchase of ordinary shares					(85.1)	(85.1)
Dividends					(46.0)	(46.0)
At 31 December 2016	1.0		42.5	36.8	4,022.5	4,102.8
Issuance of ordinary shares in respect of share based payment plans			12.9			12.9
Share based payment charge for the year	_	_		9.8	—	9.8
Profit for the financial year	_	_	_	_	547.8	547.8
Repurchase of ordinary shares	_	_	_	_	(60.0)	(60.0)
Dividends	_	_	_	_	(60.9)	(60.9)
At 31 December 2017	1.0		55.4	46.6	4,449.4	4,552.4

NOTES TO THE PARENT COMPANY FINANCIAL STATEMENTS

1. BASIS OF PREPARATION

The entity financial statements have been prepared on the going concern basis and in accordance with Generally Accepted Accounting Practice in Ireland (applicable accounting standards issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland and the Companies Act 2014). The entity financial statements comply with Financial Reporting Standard 102, 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' (FRS 102).

The financial statements of the entity present the balance sheet on a stand-alone basis, including related party transactions.

The financial statements have been prepared under the historical cost convention.

The Company ("Allegion plc") is a qualifying entity for the purposes of FRS 102. As a qualifying entity, the Company has availed of a number of exemptions from the disclosure requirements of FRS 102 in the preparation of the entity financial statements. The Company has notified its shareholders in writing about, and they do not object to, the disclosure exemptions availed of by the Company in the entity financial statements.

In accordance with FRS 102, the Company has availed of an exemption from the following paragraphs of FRS 102:

- The requirements of section 7 and paragraph 3.17(d) to present a statement of cash flows; and
- The requirement of Section 33 Related Party Disclosures paragraph 33.7 in relation to key management personnel compensation.

2. SIGNIFICANT ACCOUNTING POLICIES

Accounting convention: The financial statements have been prepared on a going concern basis under the historical cost convention.

Functional currencies: Items included in these financial statements are measured using the currency of the primary economic environment in which the Company operates (the "functional currency"). The financial statements are presented in United States dollars, which is the Company's functional and presentation currency.

Investments in subsidiaries: Allegion plc's investments in its subsidiaries are stated at cost less provision for any impairment in value. Cost represents the fair value on 1 December 2013, the date of the spin off, based on the Company's market capitalization at that time plus subsequent capital contributions and acquisitions. The Company reviews investments for impairment if events or changes in circumstances indicate that the carrying value may be impaired. The Company assesses whether such indicators exist at each reporting date. Where the recoverable amount of the investment is less than the carrying amount, an impairment is recognized.

Dividends: Dividend income is recognized when the right to receive the payment is established. Interim dividends on ordinary shares to the Company's external shareholders are recognized in the financial statements when they are paid.

Foreign currencies: Transactions during the year denominated in foreign currencies have been translated at the rates of exchange ruling at the dates of the transactions. Assets and liabilities denominated in foreign currencies are translated to United States dollars at the rates of exchange at the balance sheet date. The resulting profits or losses are dealt with in the profit and loss account.

Taxation: Corporation tax is provided on taxable profits at current rates. Deferred taxation is accounted for in respect of all timing differences at tax rates enacted or substantially enacted at the balance sheet date. Timing differences arise from the inclusion of items of income and expenditure in tax computation in periods different from those in which they are included in the financial statements. A deferred tax asset is only recognized when it is more likely than not the asset will be recoverable in the foreseeable future out of suitable taxable profits from which the underlying timing differences can be recovered.

Cash flow statement: The Company has not presented a separate cash flow statement as it has availed of the exemption available under FRS 102 section 1.12 (b). This exemption is available as 100% of the Company's voting rights are controlled within the Allegion plc group and the Consolidated Financial Statements of Allegion plc (in which the Company is included) are publicly available.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

Share-based payments: The Company and its subsidiaries operate various equity-settled share based compensation plans. The fair value of the employee services received in exchange for the grant of performance stock units has been valued using a Monte Carlo simulation based on the grant's performance criteria and forecasted earnings per share. The fair value of the employee services received in exchange for the grant of restricted stock units has been valued using the fair value of Allegion plc ordinary shares on the date of grant. The fair value of the employee services received in exchange for the grant of restricted stock units has been valued using the Black-Scholes option-pricing model. In accordance with Section 26 of FRS 102 Section 'Share-based Payments', the resulting cost for the employees is charged to the profit and loss account over the vesting period. The value of the charge is adjusted to reflect expected and actual levels of awards vesting. The cost for awards granted to the Company's subsidiaries' employees represents additional capital contributions by the Company to its subsidiaries. An additional investment in subsidiaries has been recorded in respect of those awards granted to the Company's subsidiaries' employees, with a corresponding increase in the Company's shareholders' equity. The additional capital contribution is based on the fair value at the grant date of the awards issued, allocated over the life of the underlying grant's vesting period. Proceeds received from employees, if any, for the exercise of share based instruments increase the share capital and share premium accounts of the Company. The difference between the proceeds received on issue of shares and the nominal value of the shares is credited to the share premium account. Note 30 of the Consolidated Financial Statements provides additional details of the Company share-based compensation plans.

Contingencies: The Company has guaranteed certain liabilities and credit arrangements of the group. The Company reviews the status of these guarantees at each reporting date and considers whether it is required to make a provision for payment on those guarantees based on the probability of the commitment being called.

Financial instruments: The Company has chosen to adopt Sections 11 and 12 of FRS 102 in respect of financial instruments. (i) Financial assets

Basic financial assets, including trade and other receivables, loans to fellow group companies and cash and bank balances, are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest. Such assets are subsequently carried at amortised cost using the effective interest method. At the end of each reporting period financial assets measured at amortised cost are assessed for objective evidence of impairment. If an asset is impaired the impairment loss is the difference between the carrying amount and the present value of the estimated cash flows discounted at the asset's original effective interest rate. The impairment loss is recognised in profit or loss. If there is decrease in the impairment loss arising from an event occurring after the impairment was recognised the impairment is reversed. The reversal is such that the current carrying amount does not exceed what the carrying amount would have been had the impairment not previously been recognised. The impairment reversal is recognised in profit or loss.

Financial assets are derecognised when (a) the contractual rights to the cash flows from the asset expire or are settled, or (b) substantially all the risks and rewards of the ownership of the asset are transferred to another party or (c) control of the asset has been transferred to another party who has the practical ability to unilaterally sell the asset to an unrelated third party without imposing additional restrictions.

(ii) Financial liabilities

Basic financial liabilities, including trade and other payables, bank loans, and loans from fellow group companies, are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future receipts discounted at a market rate of interest. Debt instruments are subsequently carried at amortised cost, using the effective interest rate method. Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it is probable that some or all of the facility will be drawn down. In this case, the fee is deferred until the draw-down occurs. To the extent there is no evidence that it is probable that some or all of the facility to which it relates.

Trade payables are obligations to pay for goods or services that have been acquired in the ordinary course of business from suppliers. Creditors: amounts falling due within one year are classified as current liabilities if payment is due within one year or less. If not, they are presented as non-current liabilities. Trade payables are recognised initially at transaction price and subsequently measured at amortised cost using the effective interest method.

Financial liabilities are derecognised when the liability is extinguished, that is when the contractual obligation is discharged, cancelled or expires.

2. SIGNIFICANT ACCOUNTING POLICIES (Continued)

(iii) Derivative Financial Instruments

Derivatives, including forward foreign exchange contracts, are not basic financial instruments. Derivatives are initially recognised at fair value on the date a derivative contract is entered into and are subsequently re-measured at their fair value. Changes in the fair value of derivatives are recognised in the profit and loss account and in debtors and creditors. The Company periodically enters into foreign exchange contracts to hedge certain monetary liabilities. The forward contracts have maturities of no more than 12 months and are entered into for the sole purpose of hedging exposure arising from the normal course of business. The fair value of the forward contracts has been measured based on a valuation which used inputs other than quoted prices that are observable directly and indirectly.

Cash at bank and in hand: Cash at bank and in hand includes cash in hand, deposits held at call with banks, other short term highly liquid investments with original maturities of three months or less. Bank overdrafts are shown within borrowings in current liabilities.

3. CRITICAL ACCOUNTING JUDGEMENTS AND ESTIMATION UNCERTAINTY

Estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The key risk identified by the directors relates to impairment of investments in relation to subsidiaries. Consequently the company assesses at each reporting date whether there is any indication that an investment in subsidiary has been impaired. If such an indication exists, the company is required to undertake a review for impairment and estimate the recoverable amount of the asset.

4. PROFIT/(LOSS) FOR THE FINANCIAL YEAR

A profit of \$547.8 million for the year ended 31 December 2017 (loss of \$33.9 million for the prior year) has been dealt with in the profit and loss account of Allegion plc, which as permitted by section 304 of the Companies Act 2014, is not presented in these financial statements. The Company had no other recognized gains and losses and accordingly no statement of total recognized gains and losses is presented.

5. AUDITORS' REMUNERATION

	2017 \$m	2016
		\$m
Audit of the company's individual accounts (including expenses)	0.2	0.2
Other assurance services	—	
Tax advisory services	_	
Other non-audit	_	
	0.2	0.2

Note 10 of the Consolidated Financial Statements provides additional details of fees paid by the Group.

6. EMPLOYEE COSTS

The average number of persons employed in the Company, including executive directors, during 2017 was 3 (2016: 3).

	2017	2016
Employee costs	\$m	\$ m
Wages & salaries	0.3	0.4
Social insurance costs	_	_
Other pension costs		_
	0.3	0.4

7. INVESTMENTS - SHARES IN GROUP UNDERTAKINGS

	\$m
At 31 December 2016	5,224.0
Capital contribution relating to share-based payments	9.9
At 31 December 2017	5,233.9

Subsidiaries

Details of the Company's direct subsidiaries as at 31 December 2017 are as follows:

Subsidiary company and registered office	Country of Incorporation	Principal Activity	Holding %
Allegion Irish Holding Company Limited Iveagh Court, Harcourt Road, Dublin 2, Ireland	Ireland	Holding Company	100%
Allegion US Holding Company Inc. 11819 North Pennsylvania Street, Carmel, IN 46032, U.S.A	U.S.A	Holding Company	100%
Allegion (Ireland) Finance Designated Activity Company Block D, Iveagh Court, Harcourt Road, Dublin 2	Ireland	Dormant Company	100%

The Company indirectly owns all other subsidiaries in the Allegion group. Details of indirect subsidiaries can be found in Note 37 of the Consolidated Financial Statements.

8. DEBTORS

	2017	2016
Amounts falling due within one year:	\$m	\$m
Amounts owed by subsidiary undertakings	3.5	53.2
Prepayments	0.3	0.4
At 31 December	3.8	53.6

Amounts owed by group undertakings are unsecured, interest free and repayable upon demand. The directors consider that the carrying amount of debtors approximates their fair value.

Deferred tax

The Company has unrecognized deferred tax assets of \$2.0 million related to unused tax losses as of 31 December 2017 (\$1.0 million as of 31 December 2016). No deferred tax asset has been recognized in respect of these amounts on the basis that the directors do not consider that there is convincing evidence to conclude that it is probable that losses will be recovered against future taxable profits.

9. CREDITORS

	2017	2016
Amounts falling due within one year:	\$m	\$m
Amounts due to subsidiary undertakings	0.2	0.4
Debt current portion (net of issuance costs) - Note 10	33.4	44.3
Accrued interest	0.2	5.6
Other creditors	1.2	1.0
Income tax deducted under PAYE	0.1	0.1
Pay related social insurance		_
Dividend withholding tax	0.4	0.3
At 31 December	35.5	51.7

Amounts due to group undertakings falling due within one year are unsecured and are repayable within 60 days. Tax and social insurance are repayable at various dates over the coming months in accordance with the applicable statutory provisions.

Other creditors principally comprise amounts outstanding for day to day purchases and ongoing costs and are payable at various dates in the next three months in accordance with the suppliers' usual and customary credit terms. The directors consider that the carrying amount of other creditors approximates to their fair value.

	2017	2016
Amounts falling due after more than one year:	\$m	\$m
Debt (net of issuance costs) - Note 10	650.5	1,123.6
At 31 December	650.5	1,123.6

10. LOANS AND BORROWINGS

Long-term debt consisted of the following:

In millions (\$)	2017	2016
	\$m	\$m
Term Loan A Facility		879.8
Term Facility	691.3	
Revolving Facility		—
5.875% Senior Notes due 2023		300.0
Total borrowings outstanding	691.3	1,179.8
Less current portion of long term debt	35.0	46.9
Total long-term debt	656.3	1,132.9

Unsecured Credit Facilities

As of 31 December 2017, the Company has an unsecured Credit Agreement in place that provides for up to \$1,200.0 million in unsecured financing, consisting of a \$700.0 million term loan facility (the "Term Facility") and a \$500.0 million revolving credit facility (the "Revolving Facility" and, together with the Term Facility, the "Credit Facilities"). The Credit Facilities mature on 12 September 2022 and are unconditionally guaranteed jointly and severally on an unsecured basis by the Company and Allegion US Holding Company Inc. ("Allegion US Hold Co"), the Company's wholly-owned subsidiary.

The Term Facility amortizes in quarterly installments at the following rates: 1.25% per quarter starting 31 December 2017 through 31 December 2020, 2.5% per quarter from 31 March 2021 through 30 June 2022, with the balance due on 12 September 2022. The Company may voluntarily prepay outstanding amounts under the Term Facility at any time without premium or penalty, subject to customary breakage costs. Amounts borrowed under the Term Facility that are repaid may not be reborrowed.

10. LOANS AND BORROWINGS (Continued)

The Revolving Facility provides aggregate commitments of up to \$500.0 million, which includes up to \$100.0 million for the issuance of letters of credit. At 31 December 2017, there were no borrowings outstanding on the Revolving Facility, and the Company had \$17.4 million of letters of credit outstanding. Commitments under the Revolving Facility may be reduced at any time without premium or penalty, and amounts repaid may be reborrowed. The Company pays certain fees with respect to the Revolving Facility, including an unused commitment fee on the undrawn portion of the Revolving Facility of between 0.125% and 0.200% per year, depending on the Company's credit rating, as well as certain other fees.

Outstanding borrowings under the Credit Facilities accrue interest, at the option of the Company of (i) a LIBOR rate plus the applicable margin or (ii) a base rate plus the applicable margin. The applicable margin ranges from 1.125% to 1.500% depending on the Company's credit ratings. At 31 December 2017, the outstanding borrowings under the Term Facility accrue interest at LIBOR plus a margin of 1.250%. To manage the Company's exposure to fluctuations in LIBOR rates, the Group has interest rate swaps to fix the interest rate for \$250.0 million of the outstanding borrowings (see Note 26 in the Consolidated Financial Statements).

The Credit Facilities contain negative and affirmative covenants and events of default that, among other things, limit or restrict the Company's ability to enter into certain transactions. In addition, the Credit Facilities require the Company to comply with a maximum leverage ratio and a minimum interest expense coverage ratio, as defined within the agreement. As of 31 December 2017, the Company was in compliance with all covenants.

2017 Refinancing

The Company entered into the Credit Agreement on 12 September 2017. The initial proceeds of \$700.0 million from the Term Facility, along with initial borrowings of \$165.0 million under the Revolving Facility, were used primarily to repay in full the outstanding borrowing under the Company's previously outstanding credit facility, the Second Amended and Restated Credit Agreement, dated as of 30 September 2015. All obligations under the Second Amended and Restated Credit Agreement were satisfied, all commitments thereunder were terminated, and all guarantees and security interests that had been granted in connection therewith were released.

On 3 October 2017, Allegion US Hold Co used a portion of the net proceeds of the Senior Notes due 2024 and 2027 to redeem in full the Company's \$300.0 million Senior Notes due 2023, as well as to repay in full the borrowings under the Revolving Facility and other costs associated with the refinancing.

Related to the 2017 refinancing activities, the Company recorded a \$24.6 million charge for the redemption premiums associated with the Senior Notes due 2023, non-cash charges of \$4.8 million related to the write-off of previously deferred financing costs, and \$1.6 million of third party costs. These charges were all recorded within interest payable and similar charges. The Company also recorded \$2.7 million of discounts and deferred financing costs associated with the new debt, which will be amortized to interest payable and similar charges over the terms of the respective debt.

Debt issuance costs

Debt issuance costs consisted of the following:

	2017	2016	
	\$m	\$m	
As of 1 January	11.9	14.2	
Incurred during the year	2.7		
Write off of unamortized debt issue costs from previous issuances	(4.8)		
Amortisation charge for the year	(2.4)	(2.3)	
At 31 December	7.4	11.9	
Less current portion	(1.6)	(2.6)	
	5.8	9.3	

10. LOANS AND BORROWINGS (Continued)

At 31 December 2017, future retirements for the amounts outstanding under the Term Facility are as follows:

	\$m
2018	35.0
2019	35.0
2020	35.0
2021	70.0
2022	516.3
Total	691.3

At 31 December 2017, the weighted-average interest rate for borrowings was 2.82% under the Term Facility (including the effect of interest rate swaps). Cash paid for interest for the year ended 31 December 2017 was approximately \$41.0 million (2016: \$38.8 million). Note 24 of the Consolidated Financial Statements provides additional details of loans of borrowings in the Group.

11. CALLED UP SHARE CAPITAL PRESENTED AS EQUITY

	2017	2016
Authorised:	\$m	\$m
40,000 ordinary shares of €1 par value		
400,000,000 ordinary shares of \$0.01 par value	4.0	4.0
10,000,000 preference shares of \$0.001 par value	_	_
At 31 December	4.0	4.0

Allotted, called up and fully paid equity:

Ordinary shares of \$0.01 each	Number	\$m	
At 31 December 2016	95,273,927	1.0	
Repurchase of ordinary shares	(789,614)		
Issuance of ordinary shares in respect of share based payment plans	578,072		
At 31 December 2017	95,062,385	1.0	

Share repurchases

On 2 February 2017, the Company's Board of Directors approved a new stock repurchase authorization of up to \$500 million of the Company's ordinary shares. This new stock repurchase authorization replaced the authorization established in 2014. During the year ended 31 December 2017, the Group paid \$60.0 million to repurchase and cancel 0.8 million ordinary shares of \$0.01 each, at a weighted average price of \$75.97.

Distributable reserves have been reduced by \$60.0 million being the consideration, including expenses paid for these shares. The repurchase transactions were financed by internally generated funds. The shares repurchased were cancelled and an amount equivalent to their nominal value was transferred to the capital redemption reserve in accordance with the requirements of section 106(4) of the Companies Act 2014. The transfer to capital redemption reserve and the premium paid on the shares repurchased were made out of retained profits.

During the year ended 31 December 2016 the Company repurchased and cancelled 1.3 million ordinary shares of \$0.01 each, or 1% of issued shares, at a weighted average price of \$63.10.

12. RESERVES

	Capital redemption reserve	Share premium	Share based payment reserve	Profit and loss account	Total
	\$m	\$m	\$m	\$m	\$m
At 1 January 2016		30.8	26.1	4,187.5	4,244.4
Issuance of ordinary shares in respect of share based payment plans		11.7			11.7
Share based payment charge for the year	—		10.7		10.7
Loss for the year	—	—	—	(33.9)	(33.9)
Repurchase of ordinary shares				(85.1)	(85.1)
Dividends		_		(46.0)	(46.0)
At 31 December 2016		42.5	36.8	4,022.5	4,101.8
Issuance of ordinary shares in respect of share based payment plans		12.9			12.9
Share based payment charge for the year		_	9.8	_	9.8
Profit for the year		_		547.8	547.8
Repurchase of ordinary shares		_		(60.0)	(60.0)
Dividends	_	_	_	(60.9)	(60.9)
At 31 December 2017		55.4	46.6	4,449.4	4,551.4

The Company's share premium, capital redemption reserve and share based payment reserves are not available for distribution.

Dividends declared and paid during the year

	2017	2016
Equity dividends on ordinary shares:	\$m	\$m
First interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Second interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Third interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.2	11.5
Fourth interim dividend for 2017 of \$0.16c (2016: \$0.12c)	15.3	11.5
At 31 December	60.9	46.0

Future dividends

Future dividends on our ordinary shares, if any, will be at the discretion of our Board of Directors and will depend on, among other things, our results of operations, cash requirements and surplus, financial condition, contractual restrictions and other factors that the Board of Directors may deem relevant, as well as our ability to pay dividends in compliance with the Irish Companies Act. Under the Irish Companies Act, dividends and distributions may only be made from distributable reserves. Distributable reserves, broadly, means the accumulated realized profits of Allegion plc (ALLE-Ireland). In addition, no distribution or dividend may be made unless the net assets of ALLE-Ireland are equal to, or in excess of, the aggregate of ALLE-Ireland's called up share capital plus undistributable reserves and the distribution does not reduce ALLE-Ireland's net assets below such aggregate.

13. FINANCIAL INSTRUMENTS

During 2017, the Company did not enter into any forward contracts. As of 31 December 2017, the Company had no open positions for forward contracts. During 2016, the Company entered into a forward contract to buy euro $\notin 0.7$ million, the contract matured in October 2016.

14. GUARANTEES

On 2 October 2017, Allegion US Holding Company Inc. completed the offering of 3.20% senior notes and 3.55% senior notes in the aggregate principal amount of \$800.0 million maturing in 2024 and 2027 respectively. As of 31 December 2017, the full balance of \$800.0 million remained outstanding. As of 31 December 2016, a balance of \$300.0 million 5.75% senior notes remained outstanding.

The five-year Unsecured Credit Facility includes up to \$100.0 million available for the issuance of letters of credit. As of 31 December 2017, letters of credit to a value of \$17.4 million (2016: \$21.7 million) have been issued.

Allegion plc has guaranteed the above borrowings and letters of credit of group undertakings, and the amounts total \$817.4 million as of 31 December 2017 (2016: \$321.7 million).

Note 25 of the Consolidated Financial Statements provides additional details of loans of borrowings in the Group.

15. RELATED PARTY TRANSACTIONS

The Company has not disclosed any other related party transactions as it has availed of the exemption available under the provisions of FRS 102 Section 33.1A "Related Party Disclosures" which exempts disclosure of transactions entered into between two or more members of a group, provided that any subsidiary which is a party to the transaction is wholly owned by a member of that group.

16. SUBSEQUENT EVENTS

Dividends declared

On 8 February 2018, the Company's Board of Directors declared a quarterly dividend of \$0.21 cents per ordinary share. The dividend is payable 29 March 2018 to shareholders of record on 15 March 2018.

Share repurchases

During February and March 2018, the Company repurchased and cancelled 351,826 ordinary shares of \$0.01 each, at a weighted average price of \$85.24.

Retirement of director

On 7 February 2018, Michael J. Chesser, a member of the Board of Directors of Allegion plc, retired from the Board.

Dividend income

During February and March 2018, the Company received dividends of \$63.3 million from its direct subsidiary Allegion Irish Holding Company Limited.

17. APPROVAL OF FINANCIAL STATEMENTS

The Company financial statements were approved by the Board of Directors of the Company on 4 April 2018.