ARMSTRONG WORLD INDUSTRIES INC Form 10-K February 27, 2013 Table of Contents

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

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x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2012

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from ______ to _____

Commission File Number 1-2116

ARMSTRONG WORLD INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

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Pennsylvania (State or other jurisdiction of

incorporation or organization)

23-0366390 (I.R.S. Employer

Identification No.)

2500 Columbia Avenue, Lancaster, Pennsylvania (Address of principal executive offices) Registrant s telephone number, including area code (717) 397-0611

Securities registered pursuant to Section 12(b) of the Act: None

Securities registered pursuant to Section 12(g) of the Act:

Title of each class

Common Stock (\$0.01 par value)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes x No "

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes " No x

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months, and (2) has been subject to such filing requirements for the past 90 days.

Yes x No "

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter time period that the registrant was required to submit and post such files). Yes x No "

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant s knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. x

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act (Check one):

Large accelerated filer "Accelerated filer x Non-accelerated filer "Smaller reporting company " Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act).

Yes "No x

The aggregate market value of the Common Stock of Armstrong World Industries, Inc. held by non-affiliates based on the closing price (\$49.16 per share) on the New York Stock Exchange (trading symbol AWI) on June 29, 2012 was approximately \$651 million. As of February 19, 2013, the number of shares outstanding of registrant s Common Stock was 59,062,661.

Documents Incorporated by Reference

Certain sections of Armstrong World Industries, Inc. s definitive Proxy Statement for use in connection with its 2013 annual meeting of shareholders, to be filed no later than April 30, 2013 (the first business day after the day that is 120 days after the last day of our 2012 fiscal year), are incorporated by reference into Part III of this Form 10-K Report where indicated.

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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain statements in this Annual Report on Form 10-K and the documents incorporated by reference may constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Those forward-looking statements are subject to various risks and uncertainties and include all statements that are not historical statements of fact and those regarding our intent, belief or expectations, including, but not limited to, our expectations concerning our residential and commercial markets and their effect on our operating results; our expectations regarding the payment of dividends, and our ability to increase revenues, earnings and EBITDA (as such terms are defined by documents incorporated by reference herein). Words such as anticipate, expect, intend, plan, target, project, predict, believe, will, may. estimate and similar expressions are intended to identify such forward-looking statements. These statements are based on should. seek. management s current expectations and beliefs and are subject to a number of factors that could lead to actual results materially different from those described in the forward-looking statements. Although we believe that the assumptions underlying the forward-looking statements are reasonable, we can give no assurance that our expectations will be attained. Factors that could have a material adverse effect on our operations and future prospects or which could cause actual results to differ materially from our expectations include, but are not limited to:

global economic conditions including inflation, deflation, interest rates, availability of capital, consumer spending rates, energy availability and costs, and the effects of governmental initiatives to manage economic conditions;

the risk that downturns in construction activity could adversely affect our business and results of operations;

the risk that our indebtedness and degree of leverage could adversely affect our cash flow and our ability to operate our business, make payments on our indebtedness and declare dividends on our capital stock;

the possibility that a number of covenants contained in the agreements that govern our indebtedness, impose significant operating and financial restrictions on our business;

the possibility that our indebtedness may increase our vulnerability to negative unforeseen events;

the effect of our indebtedness on our liquidity;

our ability to generate sufficient cash flow from operations to fund our needs and remain in compliance with our debt covenants;

the risk that the availability of raw materials and energy decreases or that the costs of these materials increase and we are unable to pass along the increased costs;

the possibility that competition can reduce demand for our products or cause us to lower prices;

the risk that we may lose sales to one of our major customers;

the risk that the costs of construction and operation of our new manufacturing plants may exceed our projections;

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the risk that adverse judgments in regulatory actions, product claims, environmental claims and other litigation may not be covered by insurance in all circumstances;

the risk that our intellectual property rights may not provide meaningful commercial protection for our products or brands;

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integration obstacles or costs associated with the pursuit or consummation of strategic transactions;

the risk that our restructuring actions and LEAN initiatives may not achieve expected savings in our operating costs or improve operating results;

the risk of changes in foreign currency exchange rates, interest rates and commodity prices;

changes in the political, regulatory and business environments of our international markets, including changes in trade regulations;

the risk that increased costs of labor, labor disputes, work stoppages or union organizing activity could delay or impede production and reduce sales and profits;

the risk that our decision to outsource our information technology infrastructure and certain finance and accounting functions will make us more dependent upon third parties;

the risk that our principal shareholders could significantly influence our management and our affairs;

the cost and difficulty of complying with increasing and evolving regulation; and

other risks detailed from time to time in our filings with the Securities and Exchange Commission (the SEC), press releases and other communications, including those set forth under Risk Factors included elsewhere in this Annual Report on Form 10-K and in the documents incorporated by reference.

Such forward-looking statements speak only as of the date they are made. We expressly disclaim any obligation to release publicly any updates or revisions to any forward-looking statements to reflect any change in our expectations with regard thereto or change in events, conditions or circumstances on which any statement is based.

<u>PART I</u>

ITEM 1. BUSINESS

Armstrong World Industries, Inc. (AWI or the Company) is a Pennsylvania corporation incorporated in 1891. When we refer to we, our and u in this report, we are referring to AWI and its subsidiaries. We are a leading global producer of flooring products and ceiling systems for use primarily in the construction and renovation of residential, commercial and institutional buildings. We design, manufacture and sell flooring products (primarily resilient and wood) and ceiling systems (primarily mineral fiber, fiberglass and metal) around the world.

The Armstrong World Industries, Inc. Asbestos Personal Injury Settlement Trust (Asbestos PI Trust) and Armor TPG Holdings LLC (TPG) together hold more than 50% of AWI s outstanding shares and have a shareholders agreement pursuant to which they agree to vote their shares together on certain matters. During the fourth quarter of 2012, the Asbestos PI Trust and TPG together sold 5,980,000 of their shares in a secondary public offering. The Company itself did not sell any shares and did not receive any proceeds from the offering, and the total number of common shares outstanding did not change as a result of the offering.

Reportable Segments

We operate four business segments Building Products, Resilient Flooring, Wood Flooring and Unallocated Corporate. See Note 3 to the Consolidated Financial Statements and Item 7. Management s Discussion and Analysis of Financial Condition and Results of Operations of this Form 10-K for additional financial information on our reportable segments.

<u>Markets</u>

We are well positioned in the industry segments and markets in which we operate often holding a leadership or significant market share position. The major markets in which we compete are:

North American Residential. Our Building Products, Resilient Flooring and Wood Flooring segments sell products for use in the home. Our ceiling products compete against mineral fiber and fiberglass products from other manufacturers, as well as drywall. Homeowners can choose from our vinyl and wood flooring products, for which we are North America's largest provider, or from our laminate flooring products. We compete directly with other domestic and international suppliers of these products. Our flooring products also compete with carpet and ceramic products, which we do not offer.

Our products are used in new home construction and existing home renovation work. Industry analysts estimate that existing home renovation (also known as replacement / remodel) work represents approximately two-thirds of the total North American residential market opportunity. Key U.S. statistics that indicate market opportunity include existing home sales (a key indicator for renovation opportunity), housing starts, housing completions, home prices, interest rates and consumer confidence. For our Resilient Flooring and Wood Flooring products, we believe there is some longer-term correlation between these statistics and our revenue after reflecting a lag period between change in construction activity and our operating results of several months. However, we believe that consumers preferences for product type, style, color, availability and affordability also significantly affect our revenue. Further, changes in inventory levels and/or product focus at national home centers and our building materials distributors can significantly affect our revenue. Sales of our ceiling products for residential use appear to follow the trend of existing home sales, with a several month lag period between the change in existing home sales and our related operating results.

North American Commercial. Many of our products, primarily ceilings and Resilient Flooring, are used in commercial and institutional buildings. Our revenue opportunities come from new construction as well as renovation of existing buildings. Renovation work is estimated to represent approximately two-thirds of the total North American commercial market opportunity. Most of our revenue comes from four major segments of commercial building office, education, retail and healthcare. We monitor U.S. construction starts and follow new projects. Our revenue from new construction can lag behind construction starts by as much as one year. We also monitor office vacancy rates, gross domestic product (GDP) and general employment levels, which can indicate movement in renovation and new construction opportunities. We

believe that these statistics, taking into account the time-lag effect, provide a reasonable indication of our future revenue opportunity from commercial renovation and new construction.

Outside of North America. Most of our revenues generated outside of North America are in Europe and almost all are commercial in nature. For the countries in which we have significant revenue, we monitor various national statistics (such as GDP) as well as known new projects. Revenues come primarily from new construction and renovation work.

The following table provides an estimate of our segments 2012 net sales, by major markets.

(Estimated percentages of

	North American North American North American North American Residential Commercial		North American				
individual segment s sales)			nmercial	Outside of I			
	New	Renovation	New	Renovation	New	Renovation	Total
Building Products		5%	10%	45%	25%	15%	100%
Resilient Flooring	5%	30%	5%	30%	15%	15%	100%
Wood Flooring	35%	65%					100%

Management has used estimates in creating the table above because the end-use of our products is not easily determinable.

Geographic Areas

See Note 3 to the Consolidated Financial Statements and Item 7. Management s Discussion and Analysis of Financial Condition and Results of Operations of this Form 10-K for additional financial information by geographic areas.

Customers

We use our reputation, capabilities, service and brand recognition to develop long-standing relationships with our customers. We principally sell products through building materials distributors, who re-sell our products to retailers, builders, contractors, installers and others. In the commercial sector, we also sell to several contractors and to subcontractors alliances. In the North American retail channel, which sells to end-users in the residential and light commercial segments, we have important relationships with national home centers such as The Home Depot, Inc. and Lowe s Companies, Inc. In the North American residential sector, we have important relationships with major home builders and buying groups.

Approximately two-thirds of our consolidated net sales are to distributors. Sales to large home centers account for approximately 15% of our sales in the Americas. Our remaining sales are to contractors and retailers.

No customer accounted for 10% or more of our total consolidated net sales during the last three years.

Working Capital

We produce goods for inventory and sell on credit to our customers. Generally, our distributors carry inventory as needed to meet local or rapid delivery requirements. We sell the vast majority of our products to select, pre-approved customers using customary trade terms that allow for payment in the future. These practices are typical within the industry.

Competition

We face strong competition in all of our businesses. Principal attributes of competition include product performance, product styling, service and price. Competition in North America comes from both domestic and international manufacturers. Additionally, some of our products compete with alternative products or finishing solutions. Our resilient, laminate and wood flooring products compete with carpet and ceramic products, and our ceiling products compete with drywall and exposed structure (also known as open plenum). There is excess industry capacity for certain products in some geographies, which tends to increase price competition. The following companies are our primary competitors:

<u>Building Products</u> CertainTeed Corporation (a subsidiary of Saint-Gobain), Chicago Metallic Corporation, Georgia-Pacific Corporation, Knauf AMF GmbH & Co. KG, Lafarge SA, Odenwald Faserplattenwerk GmbH, Rockfon A/S, Saint-Gobain and USG Corporation.

<u>Flooring segments</u> Beaulieu International Group, N.V., Boa-Franc, Inc., Congoleum Corporation, Faus, Inc., Forbo Holding AG, Gerflor Group, Interface, Inc., IVC Group, Krono Holding AG, LG Floors, Mannington Mills, Inc., Metroflor Corporation, Mohawk Industries, Inc., Mullican Flooring, L.P., Nora Systems GmbH, Pfleiderer AG, Shaw Industries, Inc., Somerset Hardwood Flooring, and Tarkett AG.

Raw Materials

We purchase raw materials from numerous suppliers worldwide in the ordinary course of business. The principal raw materials used in each business include the following:

BusinessPrincipal Raw MaterialsBuilding ProductsMineral fibers, fiberglass, perlite, waste paper, pigments, clays, starches, and steel used in the production of metal ceilings
and for our WAVE joint venture s manufacturing of ceiling gridResilient FlooringPolyvinylchloride (PVC) resins and films, plasticizers, backings, limestone, pigments, linseed oil, inks and stabilizersWood FlooringHardwood lumber, veneer, coatings and stains
We also purchase significant amounts of packaging materials and consume substantial amounts of energy, such as electricity and natural gas,
and water.

In general, adequate supplies of raw materials are available to all of our businesses. However, availability can change for a number of reasons, including environmental conditions, laws and regulations, shifts in demand by other industries competing for the same materials, transportation disruptions and/or business decisions made by, or events that affect, our suppliers. There is no assurance that these raw materials will remain in adequate supply to us.

Prices for certain high usage raw materials can fluctuate dramatically. Cost increases for these materials can have a significant adverse impact on our manufacturing costs. Given the competitiveness of our markets, we may not be able to recover the increased manufacturing costs through increasing selling prices to our customers.

Sourced Products

Some of the products that we sell are sourced from third parties. Our primary sourced products include various flooring products (laminate, wood, vinyl sheet and tile), specialized ceiling products, and installation-related products and accessories for some of our manufactured products. We purchase some of our sourced products from suppliers that are located outside of the U.S., primarily from Asia and Europe. Sales of sourced products represented approximately 15% of our total consolidated revenue in each of 2012, 2011, and 2010.

In general, we believe we have adequate supplies of sourced products. However, we cannot guarantee that the supply will remain adequate.

Seasonality

Generally our sales tend to be stronger in the second and third quarters of our fiscal year following the timing of renovation, home sales and new construction.

Patent and Intellectual Property Rights

Patent protection is important to our business. Our competitive position has been enhanced by U.S. and foreign patents on products and processes developed or perfected within AWI or obtained through

acquisitions and licenses. In addition, we benefit from our trade secrets for certain products and processes.

Patent protection extends for varying periods according to the date of patent filing or grant and the legal term of a patent in the various countries where patent protection is obtained. The actual protection afforded by a patent, which can vary from country to country, depends upon the type of patent, the scope of its coverage and the availability of legal remedies. Although we consider that, in the aggregate, our patents, licenses and trade secrets constitute a valuable asset of material importance to our business, we do not regard any of our businesses as being materially dependent upon any single patent or trade secret, or any group of related patents or trade secrets.

Certain of our trademarks, including without limitation, , Armstrong[®], Alterna , American Scrape ,Arteffe[®]t[®]truce[®], Cirrus[®], Cortega[®], Dundee , DLW , Dune , Exc[®]ld[®]ine Fissured , FireGuard , Impe[®]taInitiator , Laurel , Lock & Fo[®]tdLuxe Plank , Mancheste[®], Marmorette , Medintech[®], Medintone[®], Memories , MetalWorks , Natural CreationsNaturCote , Optim[®], Plano , Sca[®], SoundSoak[®], Stonetex[®], Station Square , StrataMa[®], Timberline[®], ToughGuard[®], Ultima[®], and WoodWorks[®], are important to our business because of their significant brand name recognition. Trademark protection continues in some countries as long as the mark is used, and continues in other countries as long as the mark is registered. Registrations are generally for fixed, but renewable, terms.

We review the carrying value of trademarks annually for potential impairment. See the Critical Accounting Estimates section of Item 7. Management s Discussion and Analysis of Financial Condition and Results of Operations of this Form 10-K for further information.

Employees

As of December 31, 2012, we had approximately 8,500 full-time and part-time employees worldwide. Approximately 54% of the production and maintenance employees in the U.S. are represented by labor unions. This percentage includes all production and maintenance employees at our plants and warehouses where labor unions exist. Outside the U.S., most of our production employees are covered by either industry-sponsored and/or state-sponsored collective bargaining mechanisms. We believe that our relations with our employees are satisfactory.

Research & Development

Research and development (R&D) activities are important and necessary in helping us improve our products competitiveness. Principal R&D functions include the development and improvement of products and manufacturing processes. We spent \$30.3 million in 2012, \$29.2 million in 2011 and \$32.9 million in 2010 on R&D activities worldwide.

Sustainability and Environmental Matters

The adoption of environmentally responsible building codes and standards such as the Leadership in Energy and Environmental Design, or LEED, rating system established by the U.S. Green Building Council, has the potential to increase demand for products, systems and services that contribute to building sustainable spaces. Many of our products meet the requirements for the award of LEED credits, and we are continuing to develop new products, systems and services to address market demand for products that enable construction of buildings that require fewer natural resources to build, operate and maintain. Our competitors also have developed and introduced to the market more environmentally responsible products.

We expect that there will be increased demand over time for products, systems and services that meet regulatory and customer sustainability standards and preferences and decreased demand for products that produce significant greenhouse gas emissions. We also believe that our ability to continue to provide these products, systems and services to our customers will be necessary to maintain our competitive position in the marketplace.

We are committed to complying with all environmental laws and regulations that are applicable to our operations. Regulatory activities of particular importance to our operations include proceedings under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and state or international Superfund and similar type environmental laws governing several domestically- and

internationally-owned, formerly owned and non-owned locations allegedly resulting from past industrial activity. In a few cases, we are one of several potentially responsible parties (PRPs) and have agreed to jointly fund the required investigation and remediation, while preserving our defenses to the liability. We may also have rights of contribution or reimbursement from other parties or coverage under applicable insurance policies. Most of our manufacturing and certain of our research facilities are affected by various federal, state and local environmental requirements relating to the discharge of materials or the protection of the environment. We make expenditures necessary for compliance with applicable environmental requirements at each of our operating facilities.

We have not experienced a material adverse effect upon our capital expenditures or competitive position as a result of environmental control legislation and regulations. Liabilities of \$10.7 million and \$7.3 million at December 31, 2012 and December 31, 2011, respectively, were recorded for potential environmental liabilities, on a global basis, that we consider probable and for which a reasonable estimate of the probable liability could be made. See Note 31 to the Consolidated Financial Statements and Item 1A. Risk Factors of this Form 10-K, for information regarding the possible effects that compliance with environmental laws and regulations may have on our businesses and operating results.

<u>Website</u>

We maintain a website at http://www.armstrong.com. Information contained on our website is not incorporated into this document. Reference in this Form 10-K to our website is an inactive text reference only. Annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, all amendments to those reports and other information about us are available free of charge through this website as soon as reasonably practicable after the reports are electronically filed with the SEC. These materials are also available from the SEC s website at www.sec.gov.

ITEM 1A. RISK FACTORS

Worldwide economic conditions and credit tightening could have a material adverse impact on our business.

Our business may be adversely impacted by changes in United States or global economic conditions, including inflation, deflation, interest rates, availability of capital, consumer spending rates, energy availability and costs, and the effects of governmental initiatives to manage economic conditions. Volatility in financial markets and the deterioration of national and global economic conditions could materially adversely impact our operations, financial results and/or liquidity including as follows:

the financial stability of our customers or suppliers may be compromised, which could result in additional bad debts for us or non-performance by suppliers;

one or more of the lenders under our senior secured credit facility may cease to be able to fulfill their funding obligations, which could adversely impact our liquidity;

it may become more costly or difficult to obtain financing or refinance our debt in the future;

the value of our assets held in pension plans may decline; and/or

our assets may be impaired or subject to write down or write off.

Uncertainty about global economic conditions may cause commercial and residential consumers of our products to postpone spending in response to tighter credit, negative financial news and/or declines in income or asset values. This could have a material adverse impact on the demand for our products and on our financial condition and operating results. A deterioration of economic conditions would likely exacerbate and prolong these adverse effects.

Our business is dependent on construction activity. Downturns in construction activity could adversely affect our business and results of operations.

Our businesses have greater sales opportunities when construction activity is strong and, conversely, have fewer opportunities when such activity declines. The cyclical nature of commercial and residential construction activity, including construction activity funded by the public sector, tends to be influenced by prevailing economic conditions, including favorable interest rates, strong government spending, consumer confidence and other factors beyond our control. Prolonged downturns in construction activity could have an adverse effect on our business, profitability, and the carrying value of assets.

Our indebtedness may adversely affect our cash flow and our ability to operate our business, make payments on our indebtedness and declare dividends on our capital stock.

Our level of indebtedness and degree of leverage could:

make it more difficult for us to satisfy our obligations with respect to our indebtedness;

make us more vulnerable to adverse changes in general economic, industry and competitive conditions and adverse changes in government regulation;

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limit our flexibility in planning for, or reacting to, changes in our business and the industry in which we operate;

place us at a competitive disadvantage compared to our competitors that are less leveraged and therefore more able to take advantage of opportunities that our leverage prevents us from exploiting;

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limit our ability to refinance existing indebtedness or borrow additional amounts for working capital, capital expenditures, acquisitions, debt service requirements, execution of our business strategy or other purposes;

restrict our ability to pay dividends on our capital stock; and

adversely affect our credit ratings.

We may also incur additional indebtedness, which could exacerbate the risks described above. In addition, to the extent that our indebtedness bears interest at floating rates, our sensitivity to interest rate fluctuations will increase.

Any of the above listed factors could materially adversely affect our business, financial condition and results of operations.

The agreements that govern our indebtedness contain a number of covenants that impose significant operating and financial restrictions, including restrictions on our ability to engage in acts that may be in our best long-term interests.

The agreements that govern our indebtedness include covenants that, among other things, may restrict our ability to:

incur additional debt;

pay dividends on or make other distributions in respect of our capital stock or redeem, repurchase or retire our capital stock or subordinated debt or make certain other restricted payments;

make certain acquisitions;

sell certain assets;

consolidate, merge, sell or otherwise dispose of all or substantially all of our assets; and

create liens on certain assets to secure debt.

Under the terms of our senior secured credit facility, we are required to maintain specified leverage and interest coverage ratios. Our ability to meet such ratios could be affected by events beyond our control, and we cannot assure that we will meet such ratios. A breach of any of the restrictive covenants or leverage ratio would result in a default under the senior secured credit facility. If any such default occurs, the lenders under the senior secured credit facility may be able to elect to declare all outstanding borrowings under such facilities, together with accrued interest and other fees, to be immediately due and payable, or enforce their security interest, any of which would result in an event of default under the notes. The lenders may also have the right in these circumstances to terminate any commitments they have to provide further borrowings.

We require a significant amount of liquidity to fund our operations, and borrowing has increased our vulnerability to negative unforeseen events.

Our liquidity needs vary throughout the year. If our business experiences materially negative unforeseen events, we may be unable to generate sufficient cash flow from operations to fund our needs or maintain sufficient liquidity to operate and remain in compliance with our debt covenants, which could result in reduced or delayed planned capital expenditures and other investments and adversely affect our future revenue prospects.

If the availability of raw materials or energy decreases, or the costs increase, and we are unable to pass along increased costs, our operating results could be adversely affected.

The cost and availability of raw materials, packaging materials, energy and sourced products are critical to our operations. For example, we use substantial quantities of natural gas, petroleum-based raw materials, and hardwood lumber in our manufacturing operations. The cost of some of these items has been volatile in recent years and availability has been limited at times. We source some materials from a limited number of suppliers, which, among other things, increases the risk of unavailability. Limited availability could cause us to reformulate products or limit our production. Decreased access to raw materials and energy or significant increased production cost differentials and any corresponding inability to pass along such costs through price increases could have a material adverse effect on our business, financial condition and operating results.

Our markets are highly competitive. Competition can reduce demand for our products or cause us to lower prices. Failure to compete effectively by meeting consumer preferences and maintaining market share would adversely affect our results.

Our customers consider our products performance, product styling, customer service and price when deciding whether to purchase our products. Shifting consumer preference in our highly competitive markets, from residential vinyl products to other flooring products, for example, styling preferences or inability to offer new competitive performance features could have an adverse effect on our sales. In addition, excess industry capacity exists for certain products in several geographic markets, which tends to increase price competition, as does competition from overseas competitors with lower cost structures.

Sales fluctuations to key customers could have a material adverse effect on our revenues and profits.

Some of our businesses are dependent on a few key customers. The loss of sales to one of these major customers, or any adverse change in our business relationship with any one of them, could have an adverse affect on both our revenues and profits.

Our plant construction projects may adversely impact our results.

We are in various stages of building new manufacturing plants. There can be no assurance that the actual cost of these facilities will not exceed our projections. In addition, we may experience delays in the construction of these facilities for many reasons, including unavailability of materials, labor or equipment, regulatory matters or inclement weather. Economic and competitive advantages expected from these projects may not fully materialize as a result of delays, cost overruns or changes in market conditions.

Adverse judgments in regulatory actions, product claims, environmental claims and other litigation could be costly. Insurance coverage may not be available or adequate in all circumstances.

While we strive to ensure that our products comply with applicable government regulatory standards and internal requirements, and that our products perform effectively and safely, customers from time to time could claim that our products do not meet warranty or contractual requirements, and users could claim to be harmed by use or misuse of our products. These claims could give rise to breach of contract, warranty or recall claims, or claims for negligence, product liability, strict liability, personal injury or property damage. They could also result in negative publicity that could harm our sales and operating results.

The building materials industry has been subject to claims relating to raw materials such as silicates, PCBs, PVC, formaldehyde, fire-retardants and claims relating to other issues such as mold and toxic fumes, as well as claims for incidents of catastrophic loss, such as building fires. We have not received any significant claims involving our raw materials or our product performance, however, product liability insurance coverage may not be available or adequate in all circumstances to cover any such claims that may arise in the future.

We are parties to several legal proceedings involving environmental matters (see Note 31 to the consolidated financial statements included in this Form 10-K), and we have incurred, and will continue to incur, capital and operating expenditures and other costs necessary to comply with environmental laws and regulations. It is possible that we could become subject to additional environmental liabilities in the future.

We are also subject to regulatory requirements regarding protection of the environment. Current and future environmental laws and regulations, including those proposed concerning climate change, could increase our cost of compliance, cost of energy, or otherwise materially adversely affect our business, results of operations and financial condition.

In addition, claims and investigations may arise related to patent infringement, distributor relationships, commercial contracts, antitrust or competition law requirements, employment and employee benefits issues, and other compliance and regulatory matters. While we have processes and policies designed to mitigate these risks and to investigate and address such claims as they arise, we cannot predict or, in some cases, control the costs to defend or resolve such claims.

Income taxes can have an unanticipated effect on our financial results.

Our business is subject to income taxes in the United States and many foreign jurisdictions. Because our income tax expense for any period depends heavily on the mix of income derived from the various taxing jurisdictions, our income tax expense and reported net income may fluctuate significantly, and may be materially different than forecasted or experienced in the past.

Moreover, changes in, or interpretations of, tax laws and regulations (including laws related to the remittance of foreign earnings), could also have a significant adverse effect on our profitability and financial condition.

Under provision of the Internal Revenue Code, the utilization of a U.S. corporation s deferred tax assets may be limited following a change in ownership, as defined in the Internal Revenue Code. There have been no ownership changes as defined in the Internal Revenue Code subsequent to our bankruptcy emergence. Future ownership changes could have an impact on our ability to utilize the deferred tax assets.

Our intellectual property rights may not provide meaningful commercial protection for our products or brands, which could adversely impact our business.

We rely on our proprietary intellectual property, including numerous patents and registered trademarks, as well as our licensed intellectual property. We monitor and protect against activities that might infringe, dilute, or otherwise harm our patents, trademarks and other intellectual property and rely on the patent, trademark and other laws of the United States and other countries. However, we may be unable to prevent third parties from using our intellectual property without our authorization. In addition, the laws of some non-United States jurisdictions, particularly those of certain emerging markets, provide less protection for our proprietary rights than the laws of the United States. To the extent we cannot protect our intellectual property, unauthorized use and misuse of our intellectual property could harm our competitive position and have a material adverse impact on our business, financial condition and results of operations.

We may pursue strategic transactions that could create risks and present unforeseen integration obstacles or costs, any of which could materially adversely affect our business.

We have evaluated, and expect to continue to evaluate, potential strategic transactions from time to time as those opportunities arise. We routinely engage in discussions with third parties regarding potential acquisitions that could be significant. Any such strategic transactions involve a number of risks, including potential disruption of our ongoing business and distraction of management, difficulty with integrating personnel and operating infrastructure, and increasing the scope, geographic diversity and complexity of our operations. Strategic transactions could involve payment by us of a substantial amount of cash, incurrence of a substantial amount of debt or issuance of a substantial amount of equity. Certain acquisition opportunities may not result in the consummation of a transaction or may fail to realize the intended

benefits and synergies. If we fail to consummate and integrate our acquisitions in a timely and cost-effective manner, our business could be materially and adversely affected.

Our restructuring actions and LEAN initiatives may not achieve expected savings in our operating costs or improved operating results.

We aggressively look for ways to make our operations more efficient and effective. We reduce, move and expand our plants and operations as needed. Such actions involve substantial planning, often require capital investments and may result in charges for fixed asset impairments or obsolescence and substantial severance costs. We are committed to augmenting margin expansion through further productivity enhancements and cost elimination. However, there can be no assurance that we will be able to achieve our desired level of profit improvement. Even if we achieve our targeted goals, there is no assurance that our net operating results in the future will improve by the desired amount. Planning and executing delays or challenges could adversely affect our customer service and result in unplanned costs.

We are subject to risks associated with our international operations in both established and emerging markets. Legislative, political, regulatory and economic volatility, as well as vulnerability to infrastructure and labor disruptions, could have an adverse effect on our business.

A significant portion of our products move in international trade, particularly among the U.S., Canada, Europe and Asia markets. Approximately 30% of our revenues were from operations outside the U.S. and Canada in 2012 (see Note 3 to the Consolidated Financial Statements included in this Form 10-K). Our international trade is subject to currency exchange fluctuations, trade regulations, import duties, logistics costs, delays and other related risks. Our international operations are also subject to variable tax rates, credit risks in emerging markets, political risks, uncertain legal systems, high costs in repatriating profits to the U.S. from some countries, and loss of sales to local competitors following currency devaluations in countries where we import products for sale. In addition, our international growth strategy depends in part on our ability to expand our operations in certain emerging markets. However, some emerging markets have greater political and economic volatility and greater vulnerability to infrastructure and labor disruptions than established markets. In many countries outside of the U.S., particularly in those with developing economies, it may be common for others to engage in business practices prohibited by laws and regulations applicable to us, such as the Foreign Corrupt Practices Act or similar local anti-bribery laws. These laws generally prohibit companies and their employees, contractors or agents from making improper payments to government officials for the purpose of obtaining or retaining business. Failure to comply with these laws could subject us to civil and criminal penalties. As we continue to expand our business globally, including in emerging markets, we may have difficulty anticipating and effectively managing these and other risks that our international operations may face, which may adversely impact our business outside the United States and our financial condition and results of operations.

Increased costs of labor, labor disputes, work stoppages or union organizing activity could delay or impede production and reduce sales and profits.

Increased costs of U.S. and international labor, including the costs of employee benefits plans, could adversely affect our financial results and operations. As the majority of our manufacturing employees are represented by unions and covered by collective bargaining or similar agreements, there are also costs attributable to our periodic renegotiation of those agreements. We are also subject to the risk that strikes or other types of conflicts with organized personnel may arise or that we may become the subject of union organizing activity at our facilities that do not have union representation. Prolonged negotiations, conflicts or related activities could lead to increased costs and work stoppages, which could adversely affect production, revenues, profits and customer relations.

We outsource our information technology infrastructure and certain finance and accounting functions, which makes us more dependent upon third parties.

In an effort to make our IT, finance and accounting functions more efficient, increase related capabilities, as well as generate cost savings, we outsource a significant portion of our IT infrastructure and certain finance and accounting functions to separate third party service providers. As a result, we rely on third parties to ensure that our related needs are sufficiently met. This reliance subjects us to risks arising from the loss of control over certain processes, changes in pricing that may affect our operating results, and potentially, termination of provisions of these services by our suppliers. A failure of our service providers to perform may have a significant adverse effect on our business.

Concentration of ownership among our principal shareholders may prevent new investors from influencing significant corporate decisions.

The Asbestos PI Trust and TPG together own a majority of our common shares. Pursuant to a shareholders agreement entered into by the Asbestos PI Trust and TPG, as amended effective as of November 5, 2012, the Asbestos PI Trust and TPG have agreed to vote their shares together on certain matters, including the nomination and election of twelve directors to our board of directors. Of the twelve directors, the Asbestos PI Trust has the right to designate two directors and TPG also has the right, subject to certain share ownership thresholds, to designate two directors.

Furthermore, the Asbestos PI Trust and TPG together are able to exercise influence over all matters requiring shareholder approval, including approval of significant corporate transactions and amendment of our amended and restated articles of incorporation, or the Articles, and amended bylaws, or the Bylaws, and have significant control over our management and policies. The interests of these shareholders may not be consistent with the interests of other shareholders. The existence of significant shareholders may also have the effect of deterring hostile takeovers, delaying or preventing changes in control or changes in management or limiting the ability of our other shareholders to approve transactions that they may deem to be in the best interests of our company. In addition, our Articles provide that Subchapter 25F of the Business Corporation Law of 1998 of the Commonwealth of Pennsylvania, or PBCL, which relate to business combinations with interested shareholders, does not apply to us.

Anti-takeover provisions of our organizational documents could prevent or delay a change in control of our company.

Certain provisions of our Articles and Bylaws may have the effect of discouraging, delaying or preventing a change in control of our company. A change of control could be proposed in the form of a tender offer or takeover proposal that might result in a premium over the market price for our common shares. In addition, these provisions could make it more difficult to bring about a change in the composition of our board of directors, which could result in entrenchment of current management. For example, our Articles and Bylaws:

permit special meetings of shareholders to be called only by shareholders holding at least 20% of voting shares;

establish advance notice procedures with respect to shareholder proposals and the nomination of candidates for election of directors, other than nominations made by, or at the direction of, our board of directors or by Asbestos PI Trust;

do not provide for cumulative voting in the election of directors;

require affirmative vote or written consent of the holders of at least 80% of our common shares to amend, alter or repeal certain provisions of our Articles regarding the number, terms of office and removal of directors, special meetings of shareholders, shareholder action by written consent and the rights of Asbestos PI Trust under the Articles;

until no shareholder beneficially owns at least 20% of our common shares, require the affirmative vote of at least 80% of shareholders for changes to certain provisions of the Bylaws, including provisions concerning director independence, shareholder voting at special meetings and action by written consent, board size and appointments to our nominating and governance committee; and

authorize the issuance of undesignated preferred shares, or blank check preferred shares, by our board of directors without shareholder approval.

The existence of these provisions and other provisions of our organizational documents could limit the price that investors might be willing to pay in the future for our common shares. They could also deter potential acquirers of our company, thereby reducing the likelihood that shareholders could receive a premium for their common shares in any acquisition.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our world headquarters are in Lancaster, Pennsylvania. We own a 100-acre, multi-building campus comprising the site of our corporate headquarters, most of our operational headquarters, our U.S. R&D operations and marketing, and customer service headquarters.

We produce and market Armstrong products and services throughout the world, operating 32 manufacturing plants in eight countries as of December 31, 2012. Four of our plants are leased and the remaining 28 are owned. We operate 20 plants located throughout the United States. In addition, we have an interest through our WAVE joint venture in eight additional plants in six countries.

Business Segment Building Products	Number of Plants 13	Location of Principal Facilities U.S. (Florida, Georgia, Ohio, Oregon, Pennsylvania, and West Virginia), Austria, Canada, China, France, Germany and the U.K.
Resilient Flooring	10	U.S. (California, Illinois, Mississippi, Oklahoma, and Pennsylvania), Australia and Germany
Wood Flooring	9	U.S. (Arkansas, Kentucky, Mississippi, Missouri, Pennsylvania, Tennessee, and West Virginia) and China
Sales and administrati	ve offices are	e leased and/or owned worldwide, and leased facilities are utilized to supplement our owned warehousing
facilities.		

Production capacity and the extent of utilization of our facilities are difficult to quantify with certainty. In any one facility, utilization of our capacity varies periodically depending upon demand for the product that is being manufactured. We believe our facilities are adequate and suitable to support the business. Additional incremental investments in plant facilities are made as appropriate to balance capacity with anticipated demand, improve quality and service, and reduce costs.

ITEM 3. LEGAL PROCEEDINGS

See the Specific Material Events section of the Environmental Matters section of Note 31 to the Consolidated Financial Statements, which is incorporated herein by reference, for a description of our significant legal proceedings.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

<u>PART II</u>

ITEM 5. MARKET FOR THE REGISTRANT S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

AWI s common shares trade on the New York Stock Exchange under the ticker symbol AWI. As of February 19, 2013, there were approximately 400 holders of record of AWI s common stock.

					Total
	First	Second	Third	Fourth	Year
<u>2012</u>					
Price range of common stock high	\$ 59.78	\$ 49.97	\$ 50.00	\$ 54.98	\$ 59.78
Price range of common stock low	\$ 44.60	\$42.57	\$ 38.08	\$45.83	\$ 38.08
<u>2011</u>					
Price range of common stock high	\$ 47.53	\$48.37	\$48.68	\$45.96	\$ 48.68
Price range of common stock low	\$ 39.41	\$42.50	\$ 32.47	\$ 32.82	\$ 32.47

The above figures represent the high and low intra-day sale prices for our common stock as reported by the New York Stock Exchange.

On March 23, 2012, our Board of Directors declared a special cash dividend of \$8.55 per common share, or \$508 million in the aggregate, of which \$502.9 million was paid on April 10, 2012 to shareholders of record as of April 3, 2012. Payment of an additional \$1.5 million was made during the remainder of 2012. The unpaid portion of the dividend relates to unvested employee shares and units, and is reflected in current liabilities (\$1.6 million) and other long term liabilities (\$2.2 million) and will be paid when the underlying employee shares and units vest. There were no dividends declared during 2011.

Dividends are paid as and when declared by our Board of Directors and in accordance with restrictions set forth in our debt agreements. In general, our debt agreements allow us to make restricted payments, which include dividends and stock repurchases, subject to certain limitations and other restrictions and provided that we are in compliance with the financial and other covenants of our debt agreements and meet certain liquidity requirements after giving effect to the restricted payment. For further discussion of the debt agreements, see the financial condition and liquidity section of Item 7. Management s Discussion and Analysis of Financial Condition and Results of Operations and Item 1A. Risk Factors in this Form 10-K.

Issuer Purchases of Equity Securities

	Total Number of			Total Number of Shares Purchased as Part of Publicly	Maximum Numbe of Shares that may yet be Purchased under the
	Shares	Avera	ge Price Paid	Announced Plans	Plans or
Period	Purchased ¹		er Share	or Programs ²	Programs
October 1-31, 2012	1,589	\$	51.80	U	U
November 1-30, 2012	26,432	\$	53.46		
December 1-31, 2012	60,022	\$	50.73		

Total

88,043

N/A

¹Shares reacquired through the withholding of shares to pay employee tax obligations upon the exercise of options or vesting of restricted shares previously granted under the 2011 Long Term Incentive Plan.

²The Company does not presently have a share buy-back program.

N/A

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For more information regarding securities authorized for issuance under our equity compensation plans, see Note 25 to the Consolidated Financial Statements included in this Form 10-K.

ITEM 6. SELECTED FINANCIAL DATA

The following selected historical consolidated financial data should be read in conjunction with our audited consolidated financial statements, the accompanying notes and Management s Discussion and Analysis of Financial Condition and Results of Operations included in this Form 10-K. The selected historical consolidated financial data for the periods presented have been derived from our audited consolidated financial statements.

		2012	2011		2010	2009)	2	2008
(amounts in millions, except for per-share data)									
Income statement data									
Net sales	\$ 2	2,618.9	\$ 2,723.1	\$	2,627.8	\$ 2,62	9.8	\$3,	,213.8
Operating income		271.2	239.8		87.5	10	8.9		217.6
Earnings from continuing operations		144.4	112.8	;	15.1	8	9.4		84.7
Per common share basic (a)	\$	2.43	\$ 1.92	\$	0.26	\$ 1.	.57	\$	1.49
Per common share diluted (a)	\$	2.41	\$ 1.91	\$	0.26	\$ 1.	.56	\$	1.49
Dividends declared per share of common stock	\$	8.55		\$	13.74			\$	4.50
Balance sheet data (end of period)									
Total assets	4	2,854.3	2,994.7		2,922.4	3,30	2.6	3.	,351.8
Long-term debt]	1,038.0	822.9)	839.6	43	2.5		454.8
Total equity		719.1	1,130.2	2	1,090.8	1,90	7.9	1,	,751.3
Notes:									

(a) See definition of basic and diluted earnings per share in Note 2 to the Consolidated Financial Statements.

ITEM 7. MANAGEMENT S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Armstrong World Industries, Inc. (AWI) is a Pennsylvania corporation incorporated in 1891.

This discussion should be read in conjunction with the financial statements, the accompanying notes, the cautionary note regarding forward-looking statements and risk factors included in this Form 10-K.

Overview

We are a leading global producer of flooring products and ceiling systems for use primarily in the construction and renovation of residential, commercial and institutional buildings. We design, manufacture and sell flooring products (primarily resilient and wood) and ceiling systems (primarily mineral fiber, fiberglass and metal) around the world.

In response to economic conditions during 2012, we closed two previously idled facilities: an engineered wood production facility in Statesville, NC, and a Building Products plant in Mobile, AL. Additionally, during the third quarter of 2012, we sold the assets of our wood flooring distribution (Patriot) and cabinets businesses. As of December 31, 2012, we operated 32 manufacturing plants in eight countries, including 20 plants located throughout the U.S.

Through Worthington Armstrong Venture (WAVE), our joint venture with Worthington Industries, Inc., we also have an interest in eight additional plants in six countries that produce suspension system (grid) products for our ceiling systems.

We report our financial results through the following segments: Building Products, Resilient Flooring, Wood Flooring, and Unallocated Corporate. See Results of Operations and Reportable Segment Results for additional financial information on our consolidated company and our segments.

Factors Affecting Revenues

For information on our segments 2012 net sales by geography, see Note 3 to the Consolidated Financial Statements included in this Form 10-K.

Markets. We compete in building material markets around the world. The majority of our sales are in North America and Europe. We closely monitor macroeconomic trends that affect our business, including Gross Domestic Product, the Architecture Billings Index and the Consumer Confidence Index. During 2012, these macroeconomic benchmarks showed mixed results. In addition, we noted several factors and trends within our markets that directly affected our business performance during 2012, including:

North America

We noted softness in commercial markets, particularly education and healthcare as public spending remained constrained. In addition, we saw some regional weakness in the office market. These trends impacted both our Building Products and Resilient Flooring businesses, but with greater impact on Resilient Flooring as the majority of our commercial sales in Resilient Flooring originate from the education and healthcare markets.

We experienced mixed results in our residential markets as we saw continued improvements in builder activity while renovation activity remained soft. These trends impacted our Resilient and Wood Flooring businesses.

<u>Europe</u>

The overwhelming majority of our sales in Europe are to commercial markets in sectors dependent on public spending. Continued softness in commercial sectors, such as education and healthcare, and weak currency contributed significantly to sharp declines in Central and Western Europe, while Eastern European markets grew.

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Pacific Rim

Our markets in China experienced mixed results. The office sector remained soft while the education and healthcare markets grew. A continued soft commercial construction market impacted our Resilient Flooring and Building Products businesses in Australia.

Pricing Initiatives. We periodically modify prices in each of our business segments in response to changes in costs for raw materials and energy, and to market conditions and the competitive environment. In certain cases, realized price increases are less than the announced price increases because of competitive reactions and changing market conditions. We estimate that pricing actions increased our 2012 total consolidated net sales by approximately \$27 million compared to 2011.

We have announced price increases in our ceilings and grid businesses in the Americas and in Europe that are effective in the first quarter of 2013. In response to rising lumber costs, we have also announced a price increase in our wood flooring business that is also effective in the first quarter of 2013. If raw material prices continue at, or rise from, current levels, additional pricing actions may be implemented.

Mix. Each of our businesses offers a wide assortment of products that are differentiated by style, design and performance attributes. Pricing and margins for products within the assortment vary. Changes in the relative quantity of products purchased at the different price points can impact year-to-year comparisons of net sales and operating income. We estimate that mix improvements increased our total consolidated net sales by approximately \$15 million in 2012, compared to 2011.

Factors Affecting Operating Costs

Operating Expenses. Our operating expenses are comprised of direct production costs (principally raw materials, labor and energy), manufacturing overhead costs, freight, costs to purchase sourced products and selling, general and administrative (SG&A) expenses.

Our largest individual raw material expenditures are for lumber and veneers, PVC resins and plasticizers. Natural gas is also a significant input cost. Fluctuations in the prices of these inputs are generally beyond our control and have a direct impact on our financial results. In 2012, the costs for raw materials, sourced products and energy negatively impacted operating income by approximately \$1 million, compared to 2011.

During 2011, we incurred approximately \$15 million of net costs related to the renegotiation of seven expiring collective bargaining agreements covering six plants (Beverly, WV, Oneida, TN, Marietta, PA, Lancaster, PA, Pensacola, FL, and Macon, GA) and the related lockout of our unionized employees at our Marietta, PA plant. We also incurred approximately \$4 million of additional net costs in the first quarter of 2012 related to the contract settlement with our employees at the Marietta, PA plant.

We are committed to augmenting margin expansion through cost elimination. Through manufacturing footprint reductions and aggressive application of projects designed to standardize, simplify and eliminate SG&A programs and policies, we undertook an effort to remove at least \$200 million of manufacturing and SG&A costs by the end of 2012. Toward this end, we achieved \$35 million of cost savings in 2010, \$115 million in savings in 2011, and delivered another \$63 million of cost savings during 2012. We recorded expenses of approximately \$28 million for these initiatives in 2012 and \$36 million in 2011. During the first quarter of 2012, we decided to close our previously idled Building Products plant in Mobile, AL. We also decided in the fourth quarter of 2012 to close our previously idled engineered wood plant in Statesville, NC. We will continue to evaluate the efficiency of our manufacturing footprint and may take additional actions in support of our cost and standardization initiatives. The charges associated with our cost reduction initiatives may include severance and related termination benefits, fixed asset write-downs, asset impairments and accelerated depreciation and could be material to our financial statements.

Intangible Asset Impairments. During the fourth quarter of 2010, we recorded non-cash impairment charges of \$22.4 million to reduce the carrying amount of our Wood Flooring trademarks to their estimated fair value. There were no impairment charges recorded related to these trademarks in 2012 or 2011. See Note 12 to the Consolidated Financial Statements for more information.

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See also Results of Operations for further discussion of other significant items affecting operating costs.

Employees

As of December 31, 2012, we had approximately 8,500 full-time and part-time employees worldwide, compared to approximately 9,100 employees as of December 31, 2011. The decrease is primarily due to the divestiture of our cabinets business (approximately 800 employees), partially offset by crews added in our wood flooring plants and in our China plants under construction. During 2012, we negotiated a collective bargaining agreement covering approximately 100 employees at a resilient flooring plant.

CRITICAL ACCOUNTING ESTIMATES

In preparing our consolidated financial statements in accordance with U.S. generally accepted accounting principles (GAAP), we are required to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. We evaluate our estimates and assumptions on an on-going basis, using relevant internal and external information. We believe that our estimates and assumptions are reasonable. However, actual results may differ from what was estimated and could have a significant impact on the financial statements.

We have identified the following as our critical accounting estimates. We have discussed these critical accounting estimates with our Audit Committee.

<u>U.S. Pension Credit and Postretirement Benefit Costs</u> We maintain pension and postretirement plans throughout the world, with the most significant plans located in the U.S. Our defined benefit pension and postretirement benefit costs are developed from actuarial valuations. These valuations are calculated using a number of assumptions. Each assumption represents management s best estimate of the future. The assumptions that have the most significant impact on reported results are the discount rate, the estimated long-term return on plan assets and the estimated inflation in health care costs. These assumptions are generally updated annually.

The discount rate is used to determine retirement plan liabilities and to determine the interest cost component of net periodic pension and postretirement cost. Management utilizes the Aon Hewitt AA only above median yield curve, which is a hypothetical AA yield curve comprised of a series of annualized individual discount rates, as the primary basis for determining the discount rate. As of December 31, 2012 and 2011, we assumed discount rates of 3.95% and 4.85%, respectively, for the U.S. defined benefit pension plans. As of December 31, 2012, we assumed a discount rate of 3.75% compared with a discount rate of 4.75% as of December 31, 2011 for the U.S. postretirement plans. The effects of the change in discount rate will be amortized into earnings as described below. Absent any other changes, a one-quarter percentage point decrease in the discount rates for the U.S. pension and postretirement plans would decrease 2013 operating income by \$5.4 million and a one-quarter percentage point increase in the discount rates would increase 2013 operating income by \$5.2 million.

We have two U.S. defined benefit pension plans, a qualified funded plan and a nonqualified unfunded plan. For the qualified funded plan, the expected long-term return on plan assets represents a long-term view of the future estimated investment return on plan assets. This estimate is determined based on the target allocation of plan assets among asset classes and input from investment professionals on the expected performance of the asset classes over 10 to 20 years. Historical asset returns are monitored and considered when we develop our expected long-term return on plan assets. An incremental component is added for the expected return from active management based both on the plan s experience and on historical information obtained from the plan s investment consultants. These forecasted gross returns are reduced by estimated management fees and expenses, yielding a long-term rate of return of 6.25% per annum for 2013. The expected asset return assumption is based upon a long-term view; therefore, we do not expect to see frequent changes from year to year based on positive or negative actual performance in a single year. Over the 10 year period ended December 31, 2012, the annualized return was approximately 9.2% compared to an average expected return of 7.8%. The actual return on plan assets achieved for 2012 was 15.0%. The difference between the actual and expected rate of return on plan assets will be amortized into earnings as described below.

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The expected long-term return on plan assets used in determining our 2012 U.S. pension credit was 6.50%. We have assumed a return on plan assets during 2013 of 6.25%. The decrease reflects a planned change in our asset allocations. The 2013 expected return on assets was calculated in a manner consistent with 2012. A one-quarter percentage point increase or decrease in this assumption would increase or decrease 2013 operating income by approximately \$5.5 million.

Contributions to the unfunded plan were \$4.0 million in 2012 and were made on a monthly basis to fund benefit payments. We estimate the 2013 contributions will be approximately \$3.8 million. See Note 19 to the Consolidated Financial Statements for more information.

The estimated inflation in health care costs represents a long-term view (5-10 years) of the expected inflation in our postretirement health care costs. We separately estimate expected health care cost increases for pre-65 retirees and post-65 retirees due to the influence of Medicare coverage at age 65, as illustrated below:

		Assumptions			Actual		
	Post 65	Pre 65	Overall	Post 65	Pre 65	Overall	
2011	8.5%	8.6%	8.5%	11%	2%	8%	
2012	8.1%	8.1%	8.1%	(13%)	(1%)	(9%)	
2013	7.8%	7.6%	7.7%				

The difference between the actual and expected health care costs is amortized into earnings as described below. As of December 31, 2012, health care cost increases are estimated to decrease ratably until 2019, after which they are estimated to be constant at 5%. A one percentage point increase in the assumed health care cost trend rate would reduce 2013 operating income by \$1.5 million, while a one percentage point decrease in the assumed health care cost trend rate would increase 2013 operating income by \$1.4 million. See Note 19 to the Consolidated Financial Statements for more information.

Actual results that differ from our various pension and postretirement plan estimates are captured as actuarial gains/losses. When certain thresholds are met, the gains and losses are amortized into future earnings over the expected remaining service period of plan participants, which is approximately eight years for our U.S. pension plans and our U.S. postretirement plans. Changes in assumptions could have significant effects on earnings in future years.

We recognized an increase in net actuarial losses related to our U.S. pension benefit plans of \$43.1 million in 2012. Our accumulated losses increased primarily due to changes in actuarial assumptions (most significantly a 90 basis point decline in the discount rate), partially offset by gains due to better than expected asset performance. The \$43.1 million actuarial loss due to our U.S. pension plans is reflected as a component of other comprehensive income in our Consolidated Statement of Earnings and Comprehensive Income along with actuarial losses from our foreign pension plans and actuarial gains from our U.S. postretirement benefit plans.

Impairments of Long-Lived Tangible and Intangible Assets Our indefinite-lived intangibles are primarily trademarks and brand names, which are integral to our corporate identity and expected to contribute indefinitely to our corporate cash flows. Accordingly, they have been assigned an indefinite life. We conduct our annual impairment test for non-amortizable intangible assets during the fourth quarter, although we conduct interim impairment tests if events or circumstances indicate the asset might be impaired. We conduct impairment tests for tangible assets and amortizable intangible assets when indicators of impairment exist, such as operating losses and/or negative cash flows. If an indication of impairment exists, we compare the carrying amount of the asset group to the estimated undiscounted future cash flows expected to be generated by the assets group s fair value is based on discounted future cash flows expected to be generated by the asset group, or based on management s estimated exit price assuming the assets could be sold in an orderly transaction between

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market participants or estimated salvage value if no sale is assumed. If the fair value is less than the carrying value of the asset group, we record an impairment charge equal to the difference between the fair value and carrying value of the asset group.

The principal assumptions utilized in our impairment tests for definite-lived intangible assets include operating profit adjusted for depreciation and amortization. The principal assumptions utilized in our impairment tests for indefinite-lived intangible assets include revenue growth rate, discount rate and royalty rate. Revenue growth rate and operating profit assumptions are derived from those utilized in our operating plan and strategic planning processes. The discount rate assumption is calculated based upon an estimated weighted average cost of equity which reflects the overall level of inherent risk and the rate of return a market participant would expect to achieve. Methodologies used for valuing our intangible assets did not change from prior periods.

The cash flow estimates used in applying our impairment tests are based on management s analysis of information available at the time of the impairment test. Actual cash flows lower than the estimate could lead to significant future impairments. If subsequent testing indicates that fair values have declined, the carrying values would be reduced and our future statements of income would be affected.

There was no impairment charge in 2012 or 2011 related to intangible assets. During the fourth quarter of 2010 we recorded non-cash impairment charges of \$22.4 million to reduce the carrying value of our Wood Flooring trademarks to their estimated fair value based on the results of our annual impairment test. The remaining carrying value of the Wood Flooring trademarks at December 31, 2012 and 2011 was \$41.8 million and \$42.0 million, respectively.

We tested the tangible assets within the following reporting units for impairment:

Reporting Unit	2012	2011
ABP Americas	Х	Х
Resilient Flooring Europe	Х	Х
Wood Flooring	Х	Х

Based upon the impairment testing, the carrying value of the tangible assets for each of these asset groups was determined to be recoverable (except as discussed below) because the related undiscounted cash flows and/or fair value exceeded the carrying value of assets.

During the first quarter of 2012, we made the decision to permanently close a previously idled ceiling tile plant in Mobile, AL. As a result, we recorded a \$4.6 million impairment charge for the buildings in cost of goods sold. The preliminary fair values were determined by management estimates and an independent valuation based on information available at that time (considered Level 2 inputs in the fair value hierarchy).

During the third quarter of 2012, we recorded a \$17.5 million impairment charge to the value of the cabinets assets to reflect the expected proceeds from the sale of the cabinets business, which was accounted for as a discontinued operation.

During the fourth quarter of 2012, we made the decision to permanently close a previously idled engineered wood flooring production facility in Statesville, NC. As a result, we recorded a \$0.6 million impairment charge for the buildings in cost of goods sold. The preliminary fair values were determined by management estimates and an independent valuation based on information available at that time (considered Level 2 inputs in the fair value hierarchy).

We recorded an asset impairment charge of \$2.2 million in the third quarter of 2011 in SG&A expense for a European Resilient Flooring office building. The fair value was determined by management estimates of market prices based upon information available at that time, including offers received from potential buyers of the property (considered Level 3 inputs in the fair value hierarchy).

The remaining carrying value of tangible assets within the European Resilient Flooring business was \$90.6 million as of December 31, 2012, with land and buildings representing the significant majority. Material

Management s Discussion and Analysis of Financial Condition and Results of Operations

uncertainties that could lead to a future material impairment charge include the level of European commercial construction and renovation activity.

During the fourth quarter of 2011, we recorded asset impairment charges of \$1.1 million in SG&A expense for two previously occupied manufacturing facilities. We have been actively pursuing a sale of both facilities. The fair values were determined by management estimates and independent market valuations based on information available at that time. The valuation information included sales of similar facilities and estimates of market prices (considered Level 2 inputs in the fair value hierarchy) for these assets.

During the second quarter of 2010, we recorded an asset impairment charge of \$2.1 million in SG&A expense for a European Resilient Flooring warehouse facility due to the decline in the commercial property sector. The fair value was determined by management estimates of market prices available at that time. This data included sales and leases of comparable properties within similar real estate markets (considered Level 3 inputs in the fair value hierarchy). We sold the warehouse in the first quarter of 2011.

During 2010, management decided to exit our corporate flight operations. As a result, we recorded a \$6.1 million impairment charge in SG&A expense for corporate aircraft in 2010. The fair values were determined by management estimates and an independent valuation based on information available at that time. The valuation information included sales of similar equipment and estimates of market prices (considered Level 2 inputs in the fair value hierarchy) for these assets. We sold the corporate aircraft in the fourth quarter of 2010.

We cannot predict the occurrence of certain events that might lead to material impairment charges in the future. Such events may include, but are not limited to, the impact of economic environments, particularly related to the commercial and residential construction industries, material adverse changes in relationships with significant customers, or strategic decisions made in response to economic and competitive conditions.

See Notes 3 and 12 to the Consolidated Financial Statements for further information.

Income Taxes Our effective tax rate is primarily determined based on our pre-tax income and the statutory income tax rates in the jurisdictions in which we operate. The effective tax rate also reflects the tax impacts of items treated differently for tax purposes than for financial reporting purposes. Some of these differences are permanent, such as expenses that are not deductible in our tax returns, and some differences are temporary, reversing over time, such as depreciation expense. These temporary differences create deferred income tax assets and liabilities. Deferred income tax assets are also recorded for operating loss, capital loss, alternative minimum tax credit and foreign tax credit carryforwards.

Deferred income tax assets and liabilities are recognized by applying enacted tax rates to temporary differences that exist as of the balance sheet date. We reduce the carrying amounts of deferred tax assets by a valuation allowance if, based on the available evidence, it is more likely than not that such assets will not be realized. The need to establish valuation allowances for deferred tax assets is assessed quarterly. In assessing the requirement for, and amount of, a valuation allowance in accordance with the more likely than not standard, we give appropriate consideration to all positive and negative evidence related to the realization of the deferred tax assets. This assessment considers, among other matters, the nature, frequency and severity of current and cumulative losses, forecasts of future profitability and foreign source income, the duration of statutory carryforward periods, and our experience with operating loss and tax credit carryforward expirations. A history of cumulative losses is a significant piece of negative evidence used in our assessment. If a history of cumulative losses is incurred for a tax jurisdiction, forecasts of future profitability are not used as positive evidence related to the realization of the deferred tax assets in the assessment.

As of December 31, 2012, we have recorded valuation allowances totaling \$205.5 million for various federal, state and foreign deferred tax assets. While we have considered future taxable income in assessing the need for the valuation allowances based on our best available projections, if these estimates

Management s Discussion and Analysis of Financial Condition and Results of Operations

and assumptions change in the future or if actual results differ from our projections, we may be required to adjust our valuation allowances accordingly. Such adjustments could be material to our Consolidated Financial Statements.

As further described in Note 17 to the Consolidated Financial Statements, our Consolidated Balance Sheet as of December 31, 2012 includes net deferred income tax assets of \$373 million. Included in this amount are deferred federal income tax assets for foreign tax credit carryforwards of \$119.1 million, state net operating loss deferred income tax assets of \$51.7 million, and foreign net operating loss deferred tax assets of \$166.9 million. We have established valuation allowances in the amount of \$205.5 million consisting of \$16.0 million for federal capital loss carryovers and statutorily limited operating loss carryovers, \$16.2 million for state deferred tax assets, primarily operating loss carryovers, and \$173.3 million for foreign deferred tax assets, primarily foreign operating loss carryovers.

The federal foreign tax credits carryforwards arose primarily as a result of the payment of intercompany dividends from our foreign affiliates from earnings which were previously not considered as permanently reinvested. The state net operating losses arose primarily as a result of the amounts paid to the Asbestos PI Trust in 2006.

Inherent in determining our effective tax rate are judgments regarding business plans and expectations about future operations. These judgments include the amount and geographic mix of future taxable income, the amount of foreign source income, limitations on usage of net operating loss carryforwards, the impact of ongoing or potential tax audits, earnings repatriation plans, and other future tax consequences.

We estimate we will need to generate future federal taxable income of \$340.4 million, including foreign source income of \$53 million, to fully realize the foreign tax credits before they expire in 2022. We estimate we will need to generate future taxable income of approximately \$1,230.8 million for state income tax purposes during the respective realization periods in order to fully realize the net deferred income tax assets.

The Internal Revenue Code imposes limitations on a corporation s ability to utilize federal tax attributes, including foreign tax credits, if it experiences an ownership change. In general terms, an ownership change may result from transactions increasing the ownership of certain stockholders in the stock of a corporation by more than 50 percentage points over a three-year period. There have been no ownership changes as defined in the Internal Revenue Code subsequent to our bankruptcy emergence. Future ownership changes could have an impact on our ability to utilize the deferred tax assets.

We recognize the tax benefits of an uncertain tax position if those benefits are more likely than not to be sustained based on existing tax law. Additionally, we establish a reserve for tax positions that are more likely than not to be sustained based on existing tax law, but uncertain in the ultimate benefit to be sustained upon examination by the relevant taxing authorities. Unrecognized tax benefits are subsequently recognized at the time the more likely than not recognition threshold is met, the tax matter is effectively settled or the statute of limitations for the relevant taxing authority to examine and challenge the tax position has expired, whichever is earlier.

ACCOUNTING PRONOUNCEMENTS EFFECTIVE IN FUTURE PERIODS

There were no new accounting pronouncements issued or effective during the fiscal year which have had or are expected to have a material impact on the Consolidated Financial Statements. For a discussion of new accounting pronouncements, see Note 2 to our Consolidated Financial Statements.

RESULTS OF OPERATIONS

Unless otherwise indicated, net sales in these results of operations are reported based upon the location where the sale was made. Please refer to Notes 3 and 6 to the Consolidated Financial Statements for a reconciliation of segment operating income to consolidated earnings from continuing operations before income taxes and additional financial information related to discontinued operations.

Management s Discussion and Analysis of Financial Condition and Results of Operations

2012 COMPARED TO 2011

CONSOLIDATED RESULTS FROM CONTINUING OPERATIONS

(dollar amounts in millions)

	2012	2011	Change is Favorable/ (Unfavorable)
Net sales:			
Americas	\$ 1,873.9	\$ 1,903.9	(1.6)%
Europe	523.9	597.3	(12.3)%
Pacific Rim	221.1	221.9	(0.4)%
Total consolidated net sales	\$ 2,618.9	\$ 2,723.1	(3.8)%
Operating income	\$ 271.2	\$ 239.8	13.1%

The decline in consolidated net sales was driven by \$93 million of lower volume and \$48 million of unfavorable foreign exchange impact which were only partially offset with favorable price and mix of \$47 million. Sales were also negatively impacted by our sale of the Patriot wood flooring distribution business which occurred in the third quarter of 2012 and negatively impacted sales for the full year 2012 by \$11 million when compared to the prior year.

Net sales in the Americas decreased driven primarily by volume declines, which were only partially offset by improvements in price and mix.

Excluding unfavorable foreign exchange impact of \$39 million, net sales in the European markets decreased 6%, driven by continued volume declines which were only partially offset by improvements in price.

Excluding unfavorable foreign exchange impact of \$6 million, net sales in the Pacific Rim increased 2% as improvements in mix were partially offset by lower volumes.

Cost of goods sold was 75.8% of net sales in 2012, compared to 76.2% for the same period in 2011. The decrease of \$90 million was driven by lower sales in 2012 and manufacturing cost reductions of \$30 million. The comparison was impacted by \$21 million of costs associated with the closure of our Mobile, AL Building Products facility in 2012, \$13 million of costs associated with the closure of our Beaver Falls, PA Building Products facility in 2011 and \$9 million of costs associated with European Flooring cost reductions taken in 2011.

SG&A expenses in 2012 were \$418.3 million, or 16% of net sales, compared to \$454.0 million, or 17% of net sales, in 2011. The decreases were primarily due to reductions in core SG&A expense of \$32 million.

Restructuring charges for severance and related costs of \$(0.4) million were recorded in 2012, compared to \$9.0 million in 2011. See Note 15 to the Consolidated Financial Statements for further information.

Equity earnings from our WAVE joint venture were \$55.9 million in 2012 compared to \$54.9 million in 2011. See Note 16 to the Consolidated Financial Statements for further information.

Interest expense was \$53.7 million in 2012 compared to \$48.5 million in 2011. The increase in interest expense when compared to the prior year, was driven by additional borrowings of \$250 million under our senior credit facility in March 2012 (see Liquidity section for further information).

Income tax expense was \$76.1 million and \$81.0 million in 2012 and 2011, respectively. The effective tax rate for 2012 was 34.5% as compared to a rate of 41.8% for 2011. The effective tax rate for 2012 was lower than 2011 primarily due to the release of foreign tax credit valuation allowance and changes in mix of geographic income and losses.

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REPORTABLE SEGMENT RESULTS

Building Products

(dollar amounts in millions)

	2012	2011	Change is Favorable/ (Unfavorable)
Net sales:			, , , , , , , , , , , , , , , , , , ,
Americas	\$ 757.1	\$ 749.3	1.0%
Europe	333.6	356.8	(6.5)%
Pacific Rim	128.2	131.4	(2.4)%
Total segment net sales	\$ 1,218.9	\$ 1,237.5	(1.5)%
Operating income	\$ 230.4	\$ 226.1	1.9%

The decline in Building Products net sales was driven by \$31 million of lower volume due to unfavorable market conditions in key geographies and \$25 million of unfavorable foreign exchange impact, which were only partially offset with favorable price and mix of \$37 million.

Net sales in the Americas increased due to improved price realization and positive mix which more than offset lower volumes.

Excluding unfavorable foreign exchange impact of \$20 million, net sales in the European markets decreased 1%, as improvements in price were unable to offset volume declines.

Excluding unfavorable foreign exchange impact of \$4 million, net sales in the Pacific Rim increased 1% as improvements in mix were partially offset by lower volumes.

The increase in operating income was primarily driven by improvements in gross profit, partially offset by an increase in facility closure costs. Gross profit increased primarily from the benefits of price and mix of \$26 million and reductions in manufacturing and input costs of \$10 million, which more than offset volume declines of \$17 million. Operating income was negatively impacted by \$25 million of severance, impairment, and other charges associated with cost reduction actions in 2012 related to the closure of our Mobile, AL facility and European headcount reductions; and \$13 million of severance and other charges associated with cost reduction actions related to the closure of our Beaver Falls, PA facility in 2011.

Resilient Flooring

(dollar amounts in millions)

			Change is Favorable/
	2012	2011	(Unfavorable)
Net sales:			
Americas	\$ 656.2	\$ 671.3	(2.2)%
Europe	190.3	240.5	(20.9)%
Pacific Rim	92.9	90.5	2.7%
Total segment net sales	\$ 939.4	\$ 1,002.3	(6.3)%
Operating income	\$ 56.9	\$ 15.7	Favorable

The decline in Resilient Flooring net sales was driven by \$67 million of lower volume and \$23 million of unfavorable foreign exchange impact; which were only partially offset with favorable price and mix of \$21 million.

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Net sales in the Americas decreased as improvements in mix and price gains were unable to offset volume declines driven by lower sales to our national home center channel.

Excluding unfavorable foreign exchange impact of \$20 million, net sales in the European markets decreased 14%, as improvements in price were unable to offset market driven volume declines, especially in the public sector.

Management s Discussion and Analysis of Financial Condition and Results of Operations

Excluding unfavorable foreign exchange impact of \$2 million, net sales in the Pacific Rim increased 5% as increased sales in China offset market driven sales declines in Australia.

The increase in operating income was driven by improvements in price and mix of \$14 million and reductions in manufacturing and input costs and SG&A expenses of \$16 million and \$23 million, respectively; which more than offset the impact of volume declines of \$31 million. The comparison was also impacted by \$2 million and \$21 million of severance, impairment, restructuring and other charges associated with our cost reduction actions in the European Flooring business in 2012 and 2011, respectively.

Wood Flooring

(dollar amounts in millions)

			Change is
	2012	2011	(Unfavorable)
Total segment net sales	\$ 460.6	\$483.3	(4.7)%
Operating income	\$ 37.3	\$ 43.4	(14.1)%

The decline in Wood Flooring net sales was driven by lower price and mix of \$11 million while the divestiture of our Patriot wood flooring distribution business, negatively impacted sales by \$11 million when compared to the prior year. Lower sales to our national home center channel were offset by increased sales to independent distributors.

The decrease in operating income was driven by unfavorable price and mix of \$14 million, partially offset by improvements in manufacturing and input costs of \$8 million. The operating income impact of the higher sales volume and Patriot divestiture offset each other.

Unallocated Corporate

Unallocated corporate expense of \$53.4 million increased from \$45.4 million in the prior year. 2012 included a \$14 million lower pension credit as compared to 2011. SG&A reductions only partially offset the impact of the pension credit reduction.

FINANCIAL CONDITION AND LIQUIDITY

Cash Flow

Operating activities for 2012 provided \$220.0 million of cash, compared to \$199.7 million of cash provided in 2011. The increase was primarily due to higher earnings partially offset by changes in working capital.

Net cash used for investing activities was \$91.9 million for 2012, compared to \$9.5 million in 2011. This change was primarily due to increased purchases of property, plant and equipment associated with the construction of three manufacturing plants in China and decreased distributions from WAVE.

Net cash used for financing activities was \$273.7 million for 2012, compared to \$28.8 million during 2011. The increase was primarily due to dividend payments of \$507.1 million, partially offset by proceeds from the issuance of long-term debt of \$250.0.

Liquidity

Our liquidity needs for operations vary throughout the year. We retain lines of credit to facilitate our seasonal cash flow needs, since cash flow is generally lower during the first and fourth quarters of our fiscal year. On November 23, 2010, we executed a \$1.05 billion senior credit facility arranged by Merrill Lynch, Pierce, Fenner & Smith, Inc., J.P. Morgan Securities, Inc. and Barclays Capital. This facility consisted of a \$250 million revolving credit facility (with a \$150 million sublimit for letters of credit), a \$250 million Term Loan A and a \$550 million Term Loan B. The facility was secured by U.S. personal property, the capital stock of material U.S. subsidiaries and a pledge of 65% of the stock of our

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material first tier foreign subsidiaries.

Management s Discussion and Analysis of Financial Condition and Results of Operations

On March 10, 2011, we entered into an amendment pursuant to which the following changes were effected with respect to Term Loan B:

The applicable margin for borrowings under Term Loan B was reduced (i) to 2.00% from 2.50% with respect to base rate borrowings, and (ii) to 3.00% from 3.50% with respect to LIBOR borrowings;

The minimum interest rate for borrowings under Term Loan B was reduced from 1.50% to 1.00%; and

The maturity date for Term Loan B was extended from May 23, 2017 to March 10, 2018. Until maturity, quarterly amortization payments on Term Loan B will continue in an amount equal to 0.25% of the original principal amount of Term Loan B. In connection with the amendment to Term Loan B, we paid a \$5.5 million prepayment premium, which represented one percent of the principal amount of Term Loan B and which was capitalized and is being amortized into interest expense over the life of the loan. We also paid approximately \$1.6 million of fees to third parties.

On March 22, 2012, we again amended our facility. We added \$250 million to our existing Term Loan B facility. This amended facility is composed of a \$250 million revolving credit facility (with a \$150 million sublimit for letters of credit), a \$250 million Term Loan A and an \$800 million Term Loan B. This \$1.3 billion senior credit facility is secured by U.S. personal property, the capital stock of material U.S. subsidiaries, and a pledge of 65% of the stock of our material first tier foreign subsidiaries. The only significant change to existing terms, conditions and covenants pertained to the consolidated leverage ratio covenant, which is described below.

In connection with the additional \$250 million Term Loan B borrowings, we paid \$8.1 million for bank fees. This amount was capitalized and is being amortized into interest expense over the life of the loan.

The senior credit facility includes two financial covenants that require the ratio of consolidated earnings before interest, taxes, depreciation and amortization (EBITDA) to consolidated cash interest expense minus cash consolidated interest income (consolidated interest coverage ratio) to be greater than or equal to 3.0 to 1.0 and require the ratio of consolidated funded indebtedness minus AWI and domestic subsidiary unrestricted cash and cash equivalents up to \$100 million to consolidated EBITDA (consolidated leverage ratio) to be less than or equal to 4.5 to 1.0 through December 31, 2013, 4.0 to 1.0 after December 31, 2013 through March 31, 2015 and 3.75 to 1.0 after March 31, 2015. We currently believe that default under these covenants is unlikely. Fully borrowing under our revolving credit facility would not violate these covenants. During 2012, we were in compliance with all covenants of the credit agreement.

The Revolving Credit and Term Loan A portions are currently priced at a spread of 3.00% over LIBOR and the Term Loan B portion (as amended) is priced at 3.00% over LIBOR with a 1.00% LIBOR floor for its entire term. The Term Loan A and Term Loan B were both fully drawn and are currently priced on a variable interest rate basis. On March 31, 2011, we entered into two interest rate swaps, on our Term Loan A and Term Loan B, with notional amounts of \$100 million and \$200 million, respectively, which mature in November 2015. Under the terms of the Term Loan A swap, we receive 3-month LIBOR and pay a fixed rate over the hedged period. Under the terms of the Term Loan B swap, we receive the greater of 3-month LIBOR or the 1% LIBOR Floor and pay a fixed rate over the hedged period. On March 27, 2012 we entered into an additional interest rate swap agreement with a notional amount of \$250 million, maturing in March 2018, where we pay a fixed rate of 1.9275% over the hedged period. We also entered into a forward starting interest rate swap of \$200 million from November 2015 to March 2018, where we pay a fixed rate of 2.810% over the hedged period. These swaps are designated as cash flow hedges against changes in LIBOR for a portion of our variable rate debt. The unpaid balances of Term Loan A, the Revolving Credit and Term Loan B of the credit facility may be prepaid without penalty at the maturity of their respective interest reset periods. Any amounts prepaid on the Term Loan A or Term Loan B may not be re-borrowed.

Management s Discussion and Analysis of Financial Condition and Results of Operations

Under the senior credit facility, beginning December 31, 2013, we are subject to year-end leverage tests that may trigger mandatory prepayments. If our consolidated leverage ratio is greater than 2.0 to 1.0, but less than 2.5 to 1.0 as of December 31, 2013, we would be required to make a prepayment of 25% of fiscal year Consolidated Excess Cash Flow, as defined by the credit agreement. If our consolidated leverage ratio is greater than 2.5 to 1.0, the prepayment amount would be 50% of fiscal year Consolidated Excess Cash Flow. These annual payments would be made beginning in the first quarter of 2014.

As of December 31, 2012, we had \$336.4 million of cash and cash equivalents, \$239.8 million in the U.S. and \$96.6 million in various foreign jurisdictions.

Our January 31, 2013 debt rating from S&P was BB- (stable) and from Moody s was B1 (stable).

On March 23, 2012, our Board of Directors declared a special cash dividend in the amount of \$8.55 per share, or \$508 million in the aggregate, of which \$502.9 million was paid on April 10, 2012. Payment of an additional \$1.5 million was made during the remainder of 2012, and the remaining \$3.8 million of the dividend is expected to be made when the underlying shares vest. The dividend was funded in part by surplus cash on our balance sheet, and in part by the proceeds of additional debt issued under our Term Loan B.

On November 23, 2010 our Board of Directors declared a special cash dividend in the amount of \$13.74 per share, or \$803 million in the aggregate. The special cash dividend of \$798.6 million was paid on December 10, 2010 to shareholders of record as of December 3, 2010. Approximately \$3 million was paid during 2012 when employee shares and units vested. The unpaid portion of the dividend, \$1.4 million as of December 31, 2012, will be paid when the underlying shares and units vest. The dividend was funded in part by the proceeds of the term loans remaining after repayment of previous debt and in part with existing cash.

We have a \$100 million Accounts Receivable Securitization Facility with the Bank of Nova Scotia. AWI and its subsidiary, Armstrong Hardwood Flooring Company, sell their U.S. receivables to Armstrong Receivables Company LLC (ARC), a Delaware entity that is consolidated in these financial statements. Under the terms of the program, the Bank of Nova Scotia could also issue letters of credit at the request of ARC. The purchase and letter of credit commitments under the program are set to expire in December 2014.

On December 16, 2010, we issued \$35.0 million of Recovery Zone Facility bonds through Jackson County, WV, to finance the construction of our new mineral wool plant. These tax exempt bonds are seven day variable rate demand notes backed by a letter of credit. These bonds mature in 2041.

On December 31, 2012, we had outstanding letters of credit totaling \$71.7 million, of which \$14.7 million was issued under the revolving credit facility, \$56.7 million was issued under the securitization facility and \$0.3 million was issued by other banks of international subsidiaries. Letters of credit are issued to third party suppliers, insurance and financial institutions and typically can only be drawn upon in the event of AWI s failure to pay its obligations to the beneficiary.

	As of	As of December 31, 20		
Foreign Financing Arrangements	Limit	Used	Av	ailable
Lines of Credit Available for Borrowing	\$ 15.6		\$	15.6
Lines of Credit Available for Letters of Credit	1.7	\$ 0.8		0.9
Total	\$ 17.3	\$ 0.8	\$	16.5

These lines of credit are uncommitted, and poor operating results or credit concerns at the related foreign subsidiaries could result in the lines being withdrawn by the lenders. We have historically been able to maintain and, as needed, replace credit facilities to support our foreign operations.

Since 2009, our Board of Directors has approved the construction of five manufacturing plants. These include a U.S. mineral wool plant to supply our Building Products plants, mineral fiber ceiling plants in Russia and China, and two flooring plants in China. Total capital spending

for these projects is currently

Management s Discussion and Analysis of Financial Condition and Results of Operations

projected to be approximately \$310 million. Through December 31, 2012, we have incurred approximately \$175 million related to these projects. Capital spending for these projects will be incurred through 2015 with the majority of the remaining spending expected to occur in 2013.

We believe that cash on hand and cash generated from operations, together with lines of credit, availability under our securitization program and the availability under our \$250 million revolving credit facility, will be adequate to address our foreseeable liquidity needs based on current expectations of our business operations, capital expenditures and scheduled payments of debt obligations.

2011 COMPARED TO 2010

CONSOLIDATED RESULTS FROM CONTINUING OPERATIONS

(dollar amounts in millions)

	2011	2010	Change is Favorable/ (Unfavorable)
Net sales:	2011	2010	(Olliavorable)
Americas	\$ 1,903.9	\$ 1,828.1	4.1%
Europe	597.3	600.9	(0.6)%
Pacific Rim	221.9	198.8	11.6%
Total consolidated net sales	\$ 2,723.1	\$ 2,627.8	3.6%
Operating income	\$ 239.8	\$ 87.5	Favorable

Consolidated net sales increased on favorable foreign exchange of approximately \$61 million combined with favorable price and mix of \$87 million, which were partially offset by volume declines of \$54 million.

Net sales in the Americas increased driven by price and mix which overcame volume declines in the Resilient Flooring business.

Net sales in the European markets remained flat for the year, as favorable foreign exchange impact of \$37 million and modest price improvements were offset by volume declines largely due to the restructuring of our European flooring business.

Net sales in the Pacific Rim increased on higher volume and favorable foreign exchange impact of \$14 million, which was partially offset by less favorable mix.

Cost of goods sold was 76% of net sales in 2011, compared to 78% for the same period in 2010. The decrease was driven by positive pricing actions, reduced manufacturing costs that were partially offset by increases in input costs.

SG&A expenses in 2011 were \$454.0 million, or 17% of net sales, compared to \$499.2 million, or 19% of net sales, in 2010. The decreases were due to reductions in core SG&A expenses. In addition, 2010 was impacted by \$15 million of CEO transition costs, a \$6 million asset impairment charge related to the termination of our flight operations, a loss of \$6 million related to the sale of our European metal ceilings contract installation business, a gain of \$2 million on the collection of a non-current note receivable, and an asset impairment charge of \$2 million for a European warehouse facility.

Restructuring charges for severance and related costs of \$9.0 million were recorded in 2011, compared to \$22.0 million in 2010. See Note 16 to the Consolidated Financial Statements for further information.

Equity earnings from our WAVE joint venture were \$54.9 million in 2011 compared to \$45.0 million in 2010. See Note 11 to the Consolidated Financial Statements for further information.

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Interest expense was \$48.5 million in 2011 compared to \$21.2 million in 2010. The increase was primarily due to the fourth quarter 2010 debt refinancing which increased outstanding debt balances and interest rates compared to our previous credit facility.

Management s Discussion and Analysis of Financial Condition and Results of Operations

Income tax expense was \$81.0 million and \$58.0 million in 2011 and 2010, respectively. The effective tax rate for 2011 was 41.8% as compared to a rate of 79.3% for 2010. The effective tax rate for 2011 was lower than 2010 due to the enactment of the federal health care reform legislation in March 2010.

REPORTABLE SEGMENT RESULTS

Building Products

(dollar amounts in millions)

	2011	2011 2010	
Net sales:			
Americas	\$ 749.3	\$ 696.0	7.7%
Europe	356.8	324.4	10.0%
Pacific Rim	131.4	115.1	14.2%
Total segment net sales	\$ 1,237.5	\$ 1,135.5	9.0%
Operating income	\$ 226.1	\$ 171.0	32.2%

The increase in Building Products net sales was driven by improved price and mix of \$52 million, favorable foreign exchange of \$32 million and higher volume of \$18 million.

Net sales in the Americas increased due to improved price realization, positive mix and volume improvement.

Net sales in Europe increased on favorable foreign exchange of \$20 million combined with positive price and mix, offset partially by reduced volume.

Net sales in the Pacific Rim increased as higher volume and favorable foreign exchange of \$7 million were partially offset by less favorable mix.

The improvement in operating income was driven by better price and mix of \$53 million, \$10 million of higher earnings from WAVE, decreased SG&A costs of \$7 million and the impact from higher sales volume of \$5 million, partially offset by higher manufacturing and input costs of \$37 million (which included \$15 million related to the renegotiation of collective bargaining agreements). 2011 and 2010 results were each impacted by \$13 million of accelerated depreciation, severance and restructuring related costs associated with the closure of our Beaver Falls, PA manufacturing facility. 2010 results were also impacted by a loss of \$6 million related to the sale of our European metal ceilings contract installation business and \$8 million of restructuring and severance accruals for headcount reductions.

Resilient Flooring

(dollar amounts in millions)

			Change is Favorable/
	2011	2010	(Unfavorable)
Net sales:			
Americas	\$ 671.3	\$ 653.0	2.8%
Europe	240.5	276.5	(13.0)%
Pacific Rim	90.5	83.7	8.1%
Total segment net sales	\$ 1,002.3	\$ 1,013.2	(1.1)%
Operating income	\$ 15.7	\$ 13.1	19.8%

The decline in Resilient Flooring net sales was primarily driven by \$77 million of lower volume (which included \$45 million related to the restructuring of our European flooring business) which was mostly offset by \$27 million of favorable foreign exchange impact and increased price and mix of \$39 million.

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Management s Discussion and Analysis of Financial Condition and Results of Operations

Net sales in the Americas increased as mix improvements and price gains more than offset volume declines.

Net sales in Europe decreased primarily due to volume declines related to the restructuring of our European flooring business, which included the exit of the residential flooring business, and the simplification of our country and product offerings. Excluding the impact of these actions sales were impacted by favorable foreign exchange of \$16 million and positive price realization, which were partially offset by unfavorable mix.

Net sales in the Pacific Rim increased on favorable foreign exchange of \$7 million combined with higher volume and favorable mix.

Operating income improved as improved price and mix of \$21 million and reductions in SG&A expenses of \$14 million offset the impact of volume declines of \$31 million. 2010 results were impacted by \$7 million of costs related to the closure of our Montreal, Canada facility and \$7 million of income due to laminate duty refunds.

Operating income includes losses related to European Resilient Flooring as outlined in the table below (dollar amount in millions):

	2011	2010
Resilient Flooring Europe operating loss	\$ (29.2)	\$ (36.1)
The operating losses for Resilient Flooring Europe in 2011 and 2010 included \$18 million and \$17	million, respecti	vely, for severance and

restructuring related costs of the European business. In addition to those charges, the losses include fixed asset impairment charges of \$2 million recorded in both 2011 and 2010.

Wood Flooring

(dollar amounts in millions)

	2011	2010	Change is Favorable
Total segment net sales	\$ 483.3	\$479.1	0.9%
Operating income	\$ 43.4	\$ (45.8)	Favorable

Net sales increased as higher volume of \$4 million and favorable foreign exchange of approximately \$2 million, were partially offset by unfavorable price and mix of \$2 million.

Operating income increased primarily due to reduced manufacturing and input costs of \$35 million due to the closure of two manufacturing facilities in 2010 as well as lower SG&A costs of \$17 million, which were somewhat offset by unfavorable mix of \$5 million. Additionally, operating income in 2010 was negatively impacted by \$16 million of fixed asset write downs and restructuring charges related to the closure of two manufacturing facilities and \$22 million of non-cash impairment charges related to our Wood Flooring trademarks.

Unallocated Corporate

Unallocated corporate expense of \$45 million decreased from \$51 million in 2010. 2011 included a \$25 million lower pension credit as compared to 2010. In addition, 2010 included \$15 million for CEO transition costs, \$6 million of asset impairment charges related to the termination of our flight operations, \$4 million of restructuring charges, and a gain of \$2 million on the collection of a non-current note receivable. After consideration of these items, corporate expenses declined in 2011 due to lower core spending and reduced headcount.

OFF-BALANCE SHEET ARRANGEMENTS

No disclosures are required pursuant to Item 303(a)(4) of Regulation S-K.

Management s Discussion and Analysis of Financial Condition and Results of Operations

CONTRACTUAL OBLIGATIONS

As part of our normal operations, we enter into numerous contractual obligations that require specific payments during the term of the various agreements. The following table includes amounts ongoing under contractual obligations existing as of December 31, 2012. Only known payments that are dependent solely on the passage of time are included. Obligations under contracts that contain minimum payment amounts are shown at the minimum payment amount. Contracts that have variable payment structures without minimum payments are excluded. Purchase orders that are entered into in the normal course of business are also excluded because they are generally cancelable and not legally binding. Amounts are presented below based upon the currently scheduled payment terms. Actual future payments may differ from the amounts presented below due to changes in payment terms or events affecting the payments.

(dollar amounts in millions)	2013	2014	2015	2016	2017	Thereafter	Total
Long-term debt	\$ 33.0	\$ 45.5	\$183.0	\$ 8.0	\$ 8.1	\$ 793.4	\$ 1,071.0
Scheduled interest payments ⁽¹⁾	48.2	46.7	45.8	38.5	39.9	47.7	266.8
Operating lease obligations, net of sublease income ⁽²⁾	6.9	5.6	4.7	2.2	1.0	3.1	23.5
Unconditional purchase obligations (3)	37.9	13.8	6.4	1.2	0.1		59.4
Pension contributions ⁽⁴⁾	19.3						19.3
Other obligations ^{(5), (6)}	1.4	0.2					1.6
Total contractual obligations	\$ 146.7	\$111.8	\$ 239.9	\$ 49.9	\$ 49.1	\$ 844.2	\$ 1,441.6

- ⁽¹⁾ For debt with variable interest rates and interest rate swaps, we projected future interest payments based on market-based interest rate swap curves.
- ⁽²⁾ Lease obligations include the minimum payments due under existing agreements with non-cancelable lease terms in excess of one year.
- ⁽³⁾ Unconditional purchase obligations include (a) purchase contracts whereby we must make guaranteed minimum payments of a specified amount regardless of how little material is actually purchased (take or pay contracts) and (b) service agreements. Unconditional purchase obligations exclude contracts entered into during the normal course of business that are non-cancelable and have fixed per unit fees, but where the monthly commitment varies based upon usage. Cellular phone contracts are an example.
- (4) Pension contributions include estimated contributions for our defined benefit pension plans. We are not presenting estimated payments in the table above beyond 2013 as funding can vary significantly from year to year based upon changes in the fair value of plan assets, funding regulations and actuarial assumptions.
- ⁽⁵⁾ Other obligations include payments under severance agreements.
- ⁽⁶⁾ Other obligations, does not include \$138.4 million of liabilities under ASC 740 *Income Taxes*. Due to the uncertainty relating to these positions, we are unable to reasonably estimate the ultimate amount or timing of the settlement of these issues. See Note 17 to the Consolidated Financial Statements for more information.

This table excludes obligations related to postretirement benefits (retiree health care and life insurance) since we voluntarily provide these benefits. The amount of benefit payments we made in 2012 was \$22.0 million. See Note 19 to the Consolidated Financial Statements for additional information regarding future expected cash payments for postretirement benefits.

We have issued financial guarantees to assure payment on behalf of our subsidiaries in the event of default on various debt and lease obligations in the table above. We have not issued any guarantees on behalf of joint-venture or unrelated businesses.

We are party to supply agreements, some of which require the purchase of inventory remaining at the supplier upon termination of the agreement. The last such agreement will expire in 2013. Had these agreements terminated at December 31, 2012, Armstrong would have been obligated to purchase approximately \$14.1 million of inventory. Historically, due to production planning, we have not had to purchase material amounts of product at the end of similar contracts. Accordingly, no liability has been recorded for these guarantees.

Management s Discussion and Analysis of Financial Condition and Results of Operations

We utilize lines of credit and other commercial commitments in order to ensure that adequate funds are available to meet operating requirements. Letters of credit are issued to third-party suppliers, insurance and financial institutions and typically can only be drawn upon in the event of our failure to pay our obligations to the beneficiary. This table summarizes the commitments we have available in the U.S. for use as of December 31, 2012. Letters of credit are currently arranged through our revolving credit facility or our securitization facility.

Other Commercial

Commitments	Total	Less			
	Amounts	Than 1	1 3	4 5	Over 5
(dollar amounts in millions)	Committed	Year	Years	Years	Years
Letters of credit	\$ 71.7	\$ 71.7			

In addition, our foreign subsidiaries had available lines of credit totaling \$17.3 million of which \$1.7 million was available only for letters of credit and guarantees. There were \$0.8 million of letters of credit and guarantees issued under these credit lines as of December 31, 2012, leaving an additional letter of credit availability of \$0.9 million. There were no borrowings under these lines of credit as of December 31, 2012 leaving \$15.6 million of unused lines of credit available for foreign borrowings.

On December 31, 2012, we had a \$250 million revolving credit facility with a \$150 million sublimit for letters of credit, of which \$14.7 million was outstanding. There were no borrowings under the revolving credit facility. Availability under this facility totaled \$253.5 million as of December 31, 2012. We also have the \$100 million securitization facility which as of December 31, 2012 had letters of credit outstanding of \$56.7 million and no borrowings against it. Maximum capacity under this facility was \$59.8 million (of which \$3.1 million was available), subject to accounts receivable balances and other collateral adjustments.

In connection with our disposition of certain assets through a variety of unrelated transactions, we have entered into contracts that included various indemnity provisions, some of which are customary for such transactions, while others hold the acquirer of the assets harmless with respect to liabilities relating to such matters as taxes, environmental and other litigation. Some of these provisions include exposure limits, but many do not. Due to the nature of the indemnities, it is not possible to estimate the potential maximum exposure under these contractual provisions. For contracts under which an indemnity claim has been received, a liability of \$3.6 million has been recorded as of December 31, 2012, which is included in environmental liabilities as disclosed in Note 31 to the Consolidated Financial Statements.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Market Risk

We are exposed to market risk from changes in foreign currency exchange rates, interest rates and commodity prices that could impact our results of operations, cash flows and financial condition. We use forward swaps and option contracts to hedge these exposures. Forward swap and option contracts are entered into for periods consistent with underlying exposure and do not constitute positions independent of those exposures. We use derivative financial instruments as risk management tools and not for speculative trading purposes. In addition, derivative financial instruments are entered into with a diversified group of major financial institutions in order to manage our exposure to potential nonperformance on such instruments. We regularly monitor developments in the capital markets.

Counterparty Risk

We only enter into derivative transactions with established counterparties having a credit rating of BBB or better. We monitor counterparty credit default swap levels and credit ratings on a regular basis. All of our derivative transactions with counterparties are governed by master International Swap and Derivatives Association agreements (ISDAs) with netting arrangements. These agreements can limit our exposure in situations where we have gain and loss positions outstanding with a single counterparty. We do not post nor receive cash collateral with any counterparty for our derivative transactions. As of December 31, 2012 we had no cash collateral posted or received for any of our derivative transactions. These ISDAs do not contain any credit contingent features other than those contained in our bank credit facility. Exposure to individual counterparties is controlled, and thus we consider the risk of counterparty default to be negligible.

Interest Rate Sensitivity

We are subject to interest rate variability on our Term Loan A, Term Loan B, revolving credit facility and other borrowings. A hypothetical increase of one-quarter percentage point in LIBOR interest rates from December 31, 2012 levels would increase 2013 interest expense by approximately \$0.4 million. A significant portion of our debt has a 1% LIBOR floor which would not be affected by a one-quarter percentage point move in LIBOR given the current interest rate environment. We also have \$550 million of interest rate swaps outstanding, which fix a portion of our debt. The effects of the interest rate swaps are included in this calculation.

As of December 31, 2012, we had interest rate swaps outstanding on Term Loan A and on Term Loan B, with notional amounts of \$100 million and \$450 million, respectively. We utilize interest rate swaps to minimize the fluctuations in earnings caused by interest rate volatility. Interest expense on variable-rate liabilities increases or decreases as a result of interest rate fluctuations. Under the terms of Term Loan A swap, we receive 3-month LIBOR and pay a fixed rate over the hedged period. Under the terms of the Term Loan B swaps, we received the greater of 3-month LIBOR or the 1% LIBOR Floor and pay a fixed rate over the hedged period. The Term Loan A swap of \$100 million, under the terms of which we pay a fixed rate of 2.3030% over the hedged period, matures in November 2015. The first Term Loan B swap of \$200 million, under the terms of which we pay a fixed rate of 2.5525% over the hedged period, also matures in November 2015. On March 27, 2012, we extended this swap by entering into a forward starting swap of \$200 million from November 2015 to March 2018, under the terms of which we pay a fixed rate of 1.9275% over the hedged period, which matures in March 2018. This second Term Loan B swap of \$250 million, under the terms of which we pay a fixed rate of 1.9275% over the hedged period, which matures in March 2018. This second Term Loan B swap of \$250 million, under the terms of which we pay a fixed rate of 1.9275% over the hedged period, which matures in March 2018. This second Term Loan B swap is used to hedge the additional \$250 million of debt added to our Term Loan B facility on March 22, 2012.

These swaps are designated as cash flow hedges against changes in LIBOR for a portion of our variable rate debt. The mark-to-market loss was \$25.7 million at December 31, 2012.

The table below provides information about our long-term debt obligations as of December 31, 2012, including payment requirements and related weighted-average interest rates by scheduled maturity dates. Weighted average variable rates are based on implied forward rates in the yield curve and are exclusive of our interest rate swaps.

Scheduled maturity date

(dollar amounts in millions)	2013	2014	2015	2016	2017	After 2017	Total
Variable rate	\$ 33.0	\$ 45.5	\$ 183.0	\$ 8.0	\$ 8.1	\$ 793.4	\$ 1,071.0
Avg. interest rate	3.48%	3.51%	3.67%	4.15%	4.67%	5.19%	4.80%
Exchange Rate Sensitivity							

We manufacture and sell our products in a number of countries throughout the world and, as a result, are exposed to movements in foreign currency exchange rates. To a large extent, our global manufacturing and sales provide a natural hedge of foreign currency exchange rate movement. We use foreign currency forward exchange contracts to reduce our remaining exposure. At December 31, 2012, our major, pre-hedging foreign currency exposures are to the Canadian Dollar, Australian Dollar, and Euro. A 10% strengthening of all currencies against the U.S. dollar compared to December 31, 2012 levels would increase our 2013 earnings before income taxes by approximately \$5 million, including the impact of current foreign currency forward exchange contracts.

We also use foreign currency forward exchange contracts to hedge exposures created by cross-currency intercompany loans.

The table below details our outstanding currency instruments as of December 31, 2012.

On balance sheet foreign exchange related derivatives

	Maturing	Maturing	
(dollar amounts in millions)	in 2013	in 2014	Total
Notional amounts	\$ 104.7	\$ 25.0	\$ 129.7
Liabilities at fair value	(1.6)	(0.2)	(1.8)
Natural Gas Price Sensitivity			

We purchase natural gas for use in the manufacture of ceiling tiles and other products, as well as to heat many of our facilities. As a result, we are exposed to fluctuations in the price of natural gas. We have a policy of reducing North American natural gas volatility through derivative instruments, including forward swap contracts, purchased call options and zero-cost collars. As of December 31, 2012, we had contracts to hedge approximately \$21.5 million (notional amounts) of natural gas. All of these contracts mature by December 2013. A 10% increase in North American natural gas prices compared to December 31, 2012 prices would increase our 2013 expenses by approximately \$1 million including the impact of current hedging contracts. At December 31, 2012 we had recorded liabilities of \$2.7 million related to these contracts.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

SUPPLEMENTARY DATA

Quarterly Financial Information for the Years Ended December 31, 2012 and 2011 (Unaudited)

The following consolidated financial statements are filed as part of this Annual Report on Form 10-K:

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Consolidated Statements of Earnings and Comprehensive Income for the Years Ended December 31, 2012, 2011 and 2010	45
Consolidated Balance Sheets as of December 31, 2012 and 2011	46
Consolidated Statements of Equity for the Years Ended December 31, 2012, 2011 and 2010	47
Consolidated Statements of Cash Flows for the Years Ended December 31, 2012, 2011 and 2010	48
Notes to Consolidated Financial Statements	49
Schedule II for the Years Ended December 31, 2012, 2011, and 2010	107

Armstrong World Industries, Inc., and Subsidiaries

Quarterly Financial Information (unaudited)

(dollar amounts in millions, except for per share data)

	First	Second	Third	Fourth
2012				
Net Sales	\$ 636.0	\$675.4	\$ 694.7	\$612.8
Gross profit	140.0	170.6	186.9	135.7
Earnings from continuing operations	19.0	42.2	74.0	9.2
Per share of common stock:				
Basic	\$ 0.32	\$ 0.71	\$ 1.25	\$ 0.15
Diluted	\$ 0.32	\$ 0.71	\$ 1.24	\$ 0.15
Price range of common stock high	\$ 59.78	\$ 49.97	\$ 50.00	\$ 54.98
Price range of common stock low	\$44.60	\$ 42.57	\$ 38.08	\$45.83
Dividend paid per share	\$ 8.55			
2011				
Net Sales	\$652.6	\$713.3	\$734.2	\$623.0
Gross profit	155.4	177.7	189.1	125.7
Earnings from continuing operations	14.0	37.4	51.6	9.8
Per share of common stock:				
Basic	\$ 0.24	\$ 0.63	\$ 0.88	\$ 0.16
Diluted	\$ 0.24	\$ 0.63	\$ 0.88	\$ 0.16
Price range of common stock high	\$ 47.53	\$ 48.37	\$ 48.68	\$ 45.96
Price range of common stock low	\$ 39.41	\$ 42.50	\$ 32.47	\$ 32.82
Dividend paid per share				

Note: The net sales and gross profit amounts reported above are reported on a continuing operations basis. The sum of the quarterly earnings per share data may not equal the total year amounts due to changes in the average shares outstanding and, for diluted data, the exclusion of the anti-dilutive effect in certain quarters.

Fourth Quarter 2012 Compared With Fourth Quarter 2011 Continuing Operations

Net sales of \$612.8 million in the fourth quarter of 2012 decreased from net sales of \$623.0 million in the fourth quarter of 2011. Excluding the unfavorable effects of foreign exchange rates of approximately \$4 million, the decrease in sales was due to the divestiture of our Patriot wood flooring distribution business which negatively impacted sales by \$7 million. Net sales decreased \$1 million in the Americas. Excluding the unfavorable impact of foreign exchange of \$4 million, net sales in Europe declined by \$8 million or 6%. Pacific Rim sales increased \$3 million or 5%.

Building Products net sales increased by \$3 million or 1%, due to better price realization and favorable mix. Resilient Flooring net sales decreased by \$10 million or 4%, primarily due to lower volumes in Europe and the Americas. Wood Flooring net sales decreased \$4 million or 3% as higher sales volume was offset by the impact of the divestiture of our Patriot wood flooring distribution business.

For the fourth quarter of 2012, cost of goods sold was 78% of net sales, compared to 80% in 2011. The decrease was primarily due to 2011 costs related to the renegotiation of collective bargaining agreements.

Selling, general and administrative (SG&A) expenses for the fourth quarter of 2012 were \$105.7 million, or 17% of net sales compared to \$111.3 million, or 18% of net sales, for the fourth quarter of 2011. Reductions in SG&A expenses in 2011 were primarily due to lower core spending and reduced headcount.

Equity earnings in the fourth quarter of 2012 and 2011 were \$11.9 million and \$10.5 million, respectively.

Operating income of \$42.3 million in the fourth quarter of 2012 compared to \$23.9 million in the fourth quarter of 2011 primarily resulted from the items discussed above.

Interest expense was \$14.0 million compared to \$10.9 million in 2011 due to additional borrowings of \$250 million in March 2012.

Income tax expense for the fourth quarter of 2012 was \$20.5 million on pre-tax income of \$29.7 million versus a tax expense of \$3.7 million on a pre-tax income of \$13.6 million in 2011. The effective tax rate for the fourth quarter of 2012 was higher primarily due to foreign tax credit benefits recorded in 2011. Unbenefitted foreign losses negatively impacted both periods.

Management s Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934, as amended. Our internal control over financial reporting was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our financial statements for external purposes in accordance with generally accepted accounting principles.

Because of inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on this evaluation and the criteria in the COSO framework, our management concluded that our internal control over financial reporting was effective as of December 31, 2012.

KPMG LLP, an independent registered public accounting firm, audited our internal control over financial reporting as of December 31, 2012. Their audit report can be found on page 44.

/s/ Matthew J. Espe Matthew J. Espe President and Chief Executive Officer

/s/ Thomas B. Mangas Thomas B. Mangas Senior Vice President and Chief Financial Officer

/s/ Stephen F. McNamara Stephen F. McNamara Vice President and Corporate Controller February 27, 2013

Report of Independent Registered Public Accounting Firm

The Board of Directors and Shareholders

Armstrong World Industries, Inc.:

We have audited Armstrong World Industries, Inc. and subsidiaries (the Company) internal control over financial reporting as of December 31, 2012, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management s Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company s internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, Armstrong World Industries, Inc. and subsidiaries maintained, in all material respects, effective internal control over financial reporting as of December 31, 2012, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of the Company as of December 31, 2012 and 2011, and the related consolidated statements of earnings and comprehensive income, equity, and cash flows for each of the years in the three-year period ended December 31, 2012, and our report dated February 27, 2013 expressed an unqualified opinion on those consolidated financial statements.

/s/ KPMG LLP

Philadelphia, Pennsylvania

February 27, 2013

Report of Independent Registered Public Accounting Firm

The Board of Directors and Shareholders

Armstrong World Industries, Inc.:

We have audited the accompanying consolidated balance sheets of Armstrong World Industries, Inc. and subsidiaries (the Company) as of December 31, 2012 and 2011, and the related consolidated statements of earnings and comprehensive income, equity and cash flows for each of the years in the three-year period ended December 31, 2012. In connection with our audits of the consolidated financial statements, we also have audited the financial statement schedule as listed in the accompanying index on page 40. These consolidated financial statements and financial statement

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Armstrong World Industries, Inc. and subsidiaries as of December 31, 2012 and 2011, and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2012, in conformity with U.S. generally accepted accounting principles. Also in our opinion, the related financial statement schedule, when considered in relation to the basic consolidated financial statements taken as a whole, presents fairly, in all material respects, the information set forth therein.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company s internal control over financial reporting as of December 31, 2012, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), and our report dated February 27, 2013 expressed an unqualified opinion on the effectiveness of the Company s internal control over financial reporting.

/s/ KPMG LLP

Philadelphia, Pennsylvania

February 27, 2013

Armstrong World Industries, Inc., and Subsidiaries

Consolidated Statements of Earnings and Comprehensive Income

(amounts in millions, except per share data)

	2	Yea 2012		d December 2011		2010
Net sales		2,618.9		2,723.1		2,627.8
Cost of goods sold		,985.7		2,075.2		2,041.7
Gross profit		633.2		647.9		586.1
Selling, general and administrative expenses		418.3		454.0		499.2
Intangible asset impairment						22.4
Restructuring charges, net		(0.4)		9.0		22.0
Equity earnings from joint venture		(55.9)		(54.9)		(45.0)
Operating income		271.2		239.8		87.5
Interest expense		53.7		48.5		21.2
Other non-operating expense		0.5		1.3		1.2
Other non-operating (income)		(3.5)		(3.8)		(8.0)
Earnings from continuing operations before income taxes		220.5		193.8		73.1
Income tax expense		76.1		81.0		58.0
Earnings from continuing operations		144.4		112.8		15.1
Net (loss) from discontinued operations, net of tax benefit of (\$7.1), (\$0.2) and (\$2.3)		(12.2)		(0.4)		(4.1)
Loss on sale of discontinued business, net of tax benefit of ((0.6) , ((0.6) ,) and ((0.6))		(0.9)				
Net loss from discontinued operations		(13.1)		(0.4)		(4.1)
Net earnings	\$	131.3	\$	112.4	\$	11.0
Other comprehensive income (loss), net of tax:						
Foreign currency translation adjustments		7.0		(1.6)		(0.3)
Derivative (loss) income		(5.2)		(9.0)		0.5
Pension and postretirement adjustments		(58.2)		(78.7)		(29.2)
Non-controlling interest purchase						1.1
Total other comprehensive (loss)		(56.4)		(89.3)		(27.9)
Total comprehensive income (loss)	\$	74.9	\$	23.1	(\$	16.9)
Earnings per share of common stock, continuing operations:						
Basic	\$	2.43	\$	1.92	\$	0.26
Diluted	\$	2.41	\$	1.91	\$	0.26
(Loss) per share of common stock, discontinued operations:						
Basic	(\$	0.22)	(\$	0.01)	(\$	0.07)
Diluted	(\$	0.22)	(\$	0.01)	(\$	0.07)
Net earnings per share of common stock:	\ T		(,	(·	,
Basic	\$	2.21	\$	1.91	\$	0.19
Diluted	\$	2.19	\$	1.90	\$	0.19

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Average number of common shares outstanding:			
Basic	58.9	58.3	57.7
Diluted	59.5	58.8	58.2
Dividend declared per common share	\$ 8.55		\$ 13.74
See accompanying notes to consolidated financial statements beginning on page 50.			

Armstrong World Industries, Inc., and Subsidiaries

Consolidated Balance Sheets

(amounts in millions, except share data)

	December 31, 2012		December 31 2011	
Assets				
Current assets:				
Cash and cash equivalents	\$	336.4	\$	480.6
Accounts and notes receivable, net		204.6		221.4
Inventories, net		369.8		376.1
Current assets of discontinued operations				24.4
Deferred income taxes		49.9		45.3
Income tax receivable		16.9		23.4
Other current assets		42.3		38.1
Total current assets		1,019.9		1,209.3
Property, plant, and equipment, less accumulated depreciation and amortization of \$583.8 and \$498.8,				
respectively		1,005.0		887.9
Prepaid pension costs		39.6		58.0
Investment in joint venture		133.5		141.0
Intangible assets, net		527.7		541.6
Noncurrent assets of discontinued operations				18.7
Restricted cash				1.5
Deferred income taxes		35.1		46.4
Other noncurrent assets		93.5		90.3
Total assets	\$	2,854.3	\$	2,994.7
Liabilities and Shareholders Equity				
Current liabilities:				
Short-term debt			\$	2.0
Current installments of long-term debt	\$	33.0		18.1
Accounts payable and accrued expenses		346.3		353.3
Liabilities of discontinued operations				6.4
Income tax payable		4.1		4.0
Deferred income taxes		1.3		2.4
Total current liabilities		384.7		386.2
Long-term debt, less current installments		1,038.0		822.9
Postretirement benefit liabilities		248.5		272.2
Pension benefit liabilities		247.9		206.7
Other long-term liabilities		86.6		78.8
Income taxes payable		63.3		36.7
Deferred income taxes		66.2		61.0
Total noncurrent liabilities		1,750.5		1,478.3
Shareholders equity:				
Common stock, \$0.01 par value per share, authorized 200 million shares; issued 58,934,050 shares in				
2012 and 58,424,691 shares in 2011		0.6		0.6
Capital in excess of par value		1,076.8		1,467.5
Retained earnings		113.1		77.1

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Accumulated other comprehensive (loss)	(471.4)	(415.0)
Total shareholders equity	719.1	1,130.2
Total liabilities and shareholders equity	\$ 2,854.3	\$ 2,994.7

See accompanying notes to consolidated financial statements beginning on page 50.

Armstrong World Industries, Inc., and Subsidiaries

Consolidated Statements of Equity

(amounts in millions)

Balance December 31, 2009 57,433,503 \$ 0.6 \$ 2,052.1 \$ 144.4 (\$ 297.8) \$ 8.6 \$ 1,907.9 Stock issuance, net 637,304 14.7 11.0 14.7 Share-based employee compensation 14.7 (190.7) (190.7) (190.7) Dividends declared (190.7) (190.7) (190.7) (190.7) Dividends declared in excess of retained (612.1) (190.7) (27.9) (27.9) Non-controlling interest purchase (3.5) (8.6) (12.1) (8.6) (12.1) Balance December 31, 2010 58,070,807 \$ 0.6 \$ 1,451.2 (\$ 35.3) (\$ 325.7) \$ 1,090.8 Stock issuance, net 353,884 16.3 112.4 112.4 112.4 Other comprehensive loss 16.3 112.4 112.4 112.4 Other comprehensive loss 16.3 112.4 112.4 112.4 Stock issuance, net 509,359 112.4 12.4 12.2 12.4 Stock issuance, net 509,359 131.3 131.3 131.3 131.3 Dividends declared in excess of retained		Common S Shares	Stock Amount	Additional Paid-In Capital	Ea (Acc	etained arnings umulated eficit)	Comp	umulated Other orehensive Loss)	Non-Controlling Interest	Total
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See accompanying notes to consolidated financial statements beginning on page 50

Armstrong World Industries, Inc., and Subsidiaries

Consolidated Statements of Cash Flows

(amounts in millions)

	Years H 2012	Ended Decemb 2011	per 31, 2010
Cash flows from operating activities:	¢ 121.2	¢ 110 /	¢ 11.0
Net earnings	\$ 131.3	\$ 112.4	\$ 11.0
Adjustments to reconcile earnings to net cash provided by operating activities:	112.7	112.0	143.3
Depreciation and amortization Fixed asset impairment	5.7	113.8 3.3	30.6
Deferred income taxes	26.5	62.7	21.3
Share-based compensation	15.6	11.1	5.0
Impairment on assets of discontinued operations	17.5	11.1	5.0
Equity earnings from joint venture	(55.9)	(54.9)	(45.0)
U.S. pension credit	(12.2)	(26.0)	(50.9)
Restructuring charges, net	(12.2) (0.4)	9.0	(30.9)
Restructuring payments	(0.4)	(20.0)	(7.5)
Changes in operating assets and liabilities:	(2.0)	(20.0)	(1.5)
Receivables	8.8	(2.0)	(2.9)
Inventories	(0.6)	9.2	41.2
Other current assets	(10.4)	0.7	19.2
Other noncurrent assets	3.7	(15.5)	(24.0)
Accounts payable and accrued expenses	(23.6)	11.4	10.8
Income taxes payable	33.4	(1.8)	25.9
Other long-term liabilities	(27.9)	(15.1)	(7.9)
Other, net	(1.4)	1.4	(0.3)
Net cash provided by operating activities	220.0	199.7	191.8
Cash flows from investing activities:			
Purchases of property, plant and equipment	(198.8)	(150.6)	(92.7)
Divestiture (Acquisition)	24.6	(4.2)	(0.6)
Restricted cash	1.5	28.5	(30.0)
Return of investment from joint venture	63.5	102.4	51.0
Proceeds from noncurrent note receivable			5.5
Proceeds from (payment of) company owned life insurance, net	0.7	8.9	(1.4)
Proceeds from the sale of assets	16.6	5.5	25.8
Net cash (used for) investing activities	(91.9)	(9.5)	(42.4)
Cash flows from financing activities:			
Proceeds from revolving credit facility and other debt		2.2	50.0
Payments on revolving credit facility and other debt	(2.0)	(25.0)	(25.1)
Proceeds from long-term debt	250.0		839.3
Payments of long-term debt	(20.0)	(9.1)	(462.1)
Financing costs	(8.1)	(7.9)	(18.0)
Special dividends paid	(507.1)	(0.3)	(798.6)
Proceeds from exercised stock options	12.2	7.7	13.3
Proceeds from company owned life insurance loans, net	1.3	3.6	
Purchase of non-controlling interest			(7.8)

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Net cash (used for) financing activities	(273.7)	(28.8)	(409.0)
Effect of exchange rate changes on cash and cash equivalents	1.4	3.4	5.9
Net (decrease) increase in cash and cash equivalents Cash and cash equivalents at beginning of year	(144.2) 480.6	164.8 315.8	(253.7) 569.5
	\$ 336.4	\$ 480.6	\$ 315.8
Cash and cash equivalents at end of year	\$ 550.4	\$ 400.0	\$ 515.0
Supplemental Cash Flow Disclosures:			
Interest paid	\$ 47.0	\$ 40.5	\$ 11.3
Income taxes paid, net	8.4	19.9	8.5
Amounts in accounts payable for capital expenditures See accompanying notes to consolidated financial statements beginning on page 50.	25.9	11.0	

See accompanying notes to consolidated financial statements beginning on page 50.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

NOTE 1. BUSINESS AND CHAPTER 11 REORGANIZATION

Armstrong World Industries, Inc. (AWI) is a Pennsylvania corporation incorporated in 1891. When we refer to we, our and us in these notes, we are referring to AWI and its subsidiaries. We use the term AWI when we are referring solely to Armstrong World Industries, Inc.

In December 2000, AWI filed a voluntary petition for relief (the Filing) under Chapter 11 of the U.S. Bankruptcy Code (the Bankruptcy Code) in the United States Bankruptcy Court for the District of Delaware (the Bankruptcy Court) in order to use the court-supervised reorganization process to achieve a resolution of AWI s asbestos-related liability. On October 2, 2006, AWI s court-approved plan of reorganization (POR) became effective and AWI emerged from Chapter 11. All claims in AWI s Chapter 11 case have been resolved and closed.

On October 2, 2006, the Armstrong World Industries, Inc. Asbestos Personal Injury Settlement Trust (Asbestos PI Trust) was created to address AWI s personal injury (including wrongful death) asbestos-related liability. All present and future asbestos-related personal injury claims against AWI, including contribution claims of co-defendants but excluding certain foreign claims against subsidiaries, arising directly or indirectly out of AWI s pre-Filing use of, or other activities involving, asbestos are channeled to the Asbestos PI Trust.

In August 2009, Armor TPG Holdings LLC (TPG) and the Asbestos PI Trust entered into agreements whereby TPG purchased 7,000,000 shares of AWI common stock from the Asbestos PI Trust and acquired an economic interest in an additional 1,039,777 shares from the Asbestos PI Trust. The Asbestos PI Trust and TPG together hold more than 50% of AWI s outstanding shares and have a shareholders agreement, pursuant to which they agree to vote their shares together on certain matters. During the fourth quarter of 2012, the Asbestos PI Trust and TPG together sold 5,980,000 of their shares in a secondary public offering. The Company itself did not sell any shares and did not receive any proceeds from the offering, and the total number of common shares outstanding did not change as a result of the offering.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

<u>Consolidation Policy</u>. The consolidated financial statements and accompanying data in this report include the accounts of AWI and its majority-owned subsidiaries. All significant intercompany transactions have been eliminated from the consolidated financial statements.

<u>Use of Estimates</u>. We prepare our financial statements in conformity with U.S. generally accepted accounting principles, which requires management to make estimates and assumptions. These estimates and assumptions affect the reported amounts of assets, liabilities, revenues and expenses. When preparing an estimate, management determines the amount based upon the consideration of relevant information. Management may confer with outside parties, including outside counsel. Actual results may differ from these estimates.

<u>Reclassifications</u>. Certain amounts in the prior year s Consolidated Financial Statements and related notes thereto have been recast to conform to the 2012 presentation.

The December 31, 2011 consolidated statement of cash flows has been revised to reflect a reclassification of \$12.5 million from operating activities to investing activities (\$8.9 million) and to financing activities (\$3.6 million). The December 31, 2010 consolidated statement of cash flows has been revised to reflect a reclassification of \$1.4 million from operating activities to investing activities. The revisions are related to the correction of the classification of premium payments on company-owned life insurance policies, proceeds received on those policies and loans under those policies. This revision did not affect the consolidated statement of earnings and comprehensive income for the years ended December 31, 2011 or 2010.

<u>Revenue Recognition.</u> We recognize revenue from the sale of products when persuasive evidence of an arrangement exists, title and risk of loss transfers to the customers, prices are fixed and determinable, and it is reasonably assured the related accounts receivable is collectible. Our sales terms primarily are FOB shipping point. We have some sales terms that are FOB destination. Our products are sold with normal and customary return provisions. Sales discounts are deducted immediately from the sales invoice. Provisions, which are recorded as a reduction of revenue, are made for the estimated cost of rebates, promotional programs and warranties. We defer recognizing revenue if special sales agreements, established at the time of sale, warrant this treatment.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

Sales Incentives. Sales incentives are reflected as a reduction of net sales.

Shipping and Handling Costs. Shipping and handling costs are reflected in cost of goods sold.

Advertising Costs. We recognize advertising expenses as they are incurred.

Research and Development Costs. We recognize research and development costs as they are incurred.

<u>Pension and Postretirement Benefits</u>. We have benefit plans that provide for pension, medical and life insurance benefits to certain eligible employees when they retire from active service. See Note 19 to the Consolidated Financial Statements for disclosures on pension and postretirement benefits.

<u>Taxes</u>. The provision for income taxes has been determined using the asset and liability approach of accounting for income taxes to reflect the expected future tax consequences of events recognized in the financial statements. Deferred income tax assets and liabilities are recognized by applying enacted tax rates to temporary differences that exist as of the balance sheet date which result from differences in the timing of reported taxable income between tax and financial reporting.

We reduce the carrying amounts of deferred tax assets by a valuation allowance if, based on the available evidence, it is more likely than not that such assets will not be realized. The need to establish valuation allowances for deferred tax assets is assessed quarterly. In assessing the requirement for, and amount of, a valuation allowance in accordance with the more likely than not standard, we give appropriate consideration to all positive and negative evidence related to the realization of the deferred tax assets. This assessment considers, among other matters, the nature, frequency and severity of current and cumulative losses, forecasts of future profitability and foreign source income, the duration of statutory carryforward periods, and our experience with operating loss and tax credit carryforward expirations. A history of cumulative losses is a significant piece of negative evidence used in our assessment. If a history of cumulative losses is incurred for a tax jurisdiction, forecasts of future profitability are not used as positive evidence related to the realization of the deferred tax assets in the assessment.

We recognize the tax benefits of an uncertain tax position if those benefits are more likely than not to be sustained based on existing tax law. Additionally, we establish a reserve for tax positions that are more likely than not to be sustained based on existing tax law, but uncertain in the ultimate benefit to be sustained upon examination by the relevant taxing authorities. Unrecognized tax benefits are subsequently recognized at the time the more likely than not recognition threshold is met, the tax matter is effectively settled or the statute of limitations for the relevant taxing authority to examine and challenge the tax position has expired, whichever is earlier.

Taxes collected from customers and remitted to governmental authorities are reported on a net basis.

Earnings per Common Share. Basic earnings per share is computed by dividing the earnings from continuing operations attributable to common shares by the weighted average number of shares of common stock outstanding during the period. Diluted earnings per common share reflects the potential dilution of securities that could share in the earnings.

Cash and Cash Equivalents. Cash and cash equivalents include cash on hand and short-term investments that have maturities of three months or less when purchased.

<u>Concentration of Credit</u>. We principally sell products to customers in the building products industries in various geographic regions. No one customer accounted for 10% or more of our total consolidated net sales in the years 2012, 2011, and 2010. We monitor the creditworthiness of our customers and generally do not require collateral.

<u>Receivables</u>. We sell the vast majority of our products to select, pre-approved customers using customary trade terms that allow for payment in the future. Customer trade receivables, customer notes receivable and miscellaneous receivables (which include supply related rebates and

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claims to be received, unpaid insurance claims from litigation and other), net of allowances for doubtful accounts, customer credits and warranties are

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

reported in accounts and notes receivable, net. Notes receivable from divesting certain businesses are included in other current assets and other non-current assets based upon the payment terms. Cash flows from the collection of current receivables are classified as operating cash flows on the consolidated statements of cash flows.

We establish credit-worthiness prior to extending credit. We estimate the recoverability of receivables each period. This estimate is based upon triggering events and new information in the period, which can include the review of any available financial statements and forecasts, as well as discussions with legal counsel and the management of the debtor company. As events occur, which impact the collectability of the receivable, all or a portion of the receivable is reserved. Account balances are charged off against the allowance when the potential for recovery is considered remote. We do not have any off-balance-sheet credit exposure related to our customers.

<u>Inventories</u>. Inventories are valued at the lower of cost or market. Inventories also include certain samples used in ongoing sales and marketing activities. See Note 8 to the Consolidated Financial Statements for further information on our accounting for inventories.

<u>Property and Depreciation</u>. Depreciation charges for financial reporting purposes are determined on a straight-line basis at rates calculated to provide for the full depreciation of assets at the end of their useful lives. Machinery and equipment includes manufacturing equipment (depreciated over 3 to 15 years), computer equipment (3 to 5 years) and office furniture and equipment (5 to 7 years). Within manufacturing equipment, assets that are subject to quick obsolescence or wear out quickly, such as tooling and engraving equipment, are depreciated over shorter periods (3 to 7 years). Heavy production equipment, such as conveyors and production presses, are depreciated over longer periods (15 years). Buildings are depreciated over 15 to 30 years, depending on factors such as type of construction and use. Computer software is depreciated over 3 to 7 years.

Property, plant and equipment are tested for impairment when indicators of impairment are present, such as operating losses and/or negative cash flows. If an indication of impairment exists, we compare the carrying amount of the asset group to the estimated undiscounted future cash flows expected to be generated by the assets. The estimate of an asset group s fair value is based on discounted future cash flows expected to be generated by the asset group, or based on management s estimated exit price assuming the assets could be sold in an orderly transaction between market participants, or estimated salvage value if no sale is assumed. If the fair value is less than the carrying value of the asset group, we record an impairment charge equal to the difference between the fair value and carrying value of the asset group. Impairments of assets related to our manufacturing operations are recorded in cost of goods sold. When assets are disposed of or retired, their costs and related depreciation are removed from the financial statements, and any resulting gains or losses normally are reflected in cost of goods sold or selling, general and administrative (SG&A) expenses.

<u>Asset Retirement Obligations</u>. We recognize the fair value of obligations associated with the retirement of tangible long-lived assets in the period in which they are incurred. Upon initial recognition of a liability, the discounted cost is capitalized as part of the related long-lived asset and depreciated over the corresponding asset s useful life. Over time, accretion of the liability is recognized as an operating expense to reflect the change in the liability s present value.

Intangible Assets. We periodically review significant definite-lived intangible assets for impairment when indicators of impairment exist. We review our businesses for indicators of impairment such as operating losses and/or negative cash flows. If an indication of impairment exists, we compare the carrying amount of the asset group to the estimated undiscounted future cash flows expected to be generated by the assets. The estimate of an asset group s fair value is based on discounted future cash flows expected to be generated by the asset group, or based on management s estimated exit price assuming the assets could be sold in an orderly transaction between market participants. If the fair value is less than the carrying value of the asset group, we record an impairment charge equal to the difference between the fair value and carrying value of the asset group.

Our indefinite-lived intangibles are primarily trademarks and brand names, which are integral to our corporate identity and expected to contribute indefinitely to our cash flows. Accordingly, they have been assigned an indefinite life. We perform annual impairment tests during the fourth quarter on these indefinite-lived intangibles. These assets undergo more frequent tests if an indication of possible impairment exists.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

The principal assumptions utilized in our impairment tests for definite-lived intangible assets include operating profit adjusted for depreciation and amortization. The principal assumptions utilized in our impairment tests for indefinite-lived intangible assets include revenue growth rate, discount rate and royalty rate. Revenue growth rate and operating profit assumptions are derived from those utilized in our operating plan and strategic planning processes. The discount rate assumption is calculated based upon an estimated weighted average cost of equity which reflects the overall level of inherent risk and the rate of return a market participant would expect to achieve. Methodologies used for valuing our intangible assets did not change from prior periods.

See Note 12 to the Consolidated Financial Statements for disclosure on intangible assets.

<u>Foreign Currency Transactions</u>. Assets and liabilities of our subsidiaries operating outside the United States which account in a functional currency other than U.S. dollars are translated using the period end exchange rate. Revenues and expenses are translated at exchange rates effective during each month. Foreign currency translation gains or losses are included as a component of accumulated other comprehensive (loss) within shareholders equity. Gains or losses on foreign currency transactions are recognized through the statement of earnings.

<u>Financial Instruments and Derivatives</u>. From time to time, we use derivatives and other financial instruments to offset the effect of currency, interest rate and commodity price variability. See Notes 20 and 21 to the Consolidated Financial Statements for further discussion.

<u>Share-based Employee Compensation</u>. For awards with only service and performance conditions that have a graded vesting schedule, we recognize compensation expense on a straight-line basis over the vesting period for the entire award. For awards with market conditions, we recognize compensation expense over the derived service period. See Note 25 to the Consolidated Financial Statements for additional information on share-based employee compensation.

<u>Subsequent Events</u>. We have evaluated subsequent events for potential recognition and disclosure through the date the consolidated financial statements included in the Annual Report on Form 10-K were issued.

Recently Adopted Accounting Standards

During 2011, we adopted guidance that is now part of Accounting Standards Codification (ASC) 350: *Intangibles Goodwill and Other*. The guidance permits an entity to first assess qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. There was no impact on our financial statements from the adoption of this guidance.

During 2012, we adopted guidance which is now part of ASC 220: *Presentation of Comprehensive Income*. The guidance requires companies to present the components of net income and other comprehensive income either as one continuous statement or as two consecutive statements. It eliminated the option to present components of other comprehensive income as part of the statement of changes in stockholder s equity. There was no impact on our financial condition, results of operations or cash flows as a result of this presentation.

During 2012, we adopted guidance which is now part of ASC 820: *Fair Value Measurement*. The guidance changes several aspects of the fair value measurement guidance including items such as the concepts of highest and best use and incorporation of premiums and discounts in fair value measurement. The guidance also requires companies to present more disclosures surrounding valuation techniques and unobservable inputs used in Level 3 fair value measurement including a narrative description of Level 3 measurements sensitivity to changes in unobservable inputs. There was no impact on our financial condition, results of operations or cash flows as a result of this guidance.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

Recently Issued Accounting Standards

In December 2011, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2011-11: *Balance Sheet Disclosures about Offsetting Assets and Liabilities* in conjunction with the International Accounting Standards Board s issuance of amendments to International Financial Reporting Standard (IFRS) 7: *Disclosures Offsetting Financial Assets and Financial Liabilities*. The new standard requires disclosures to allow investors to better compare financial statements prepared under U.S. generally accepted accounting principles (GAAP) with financial statements prepared under IFRS. The guidance is to be applied retrospectively and will be effective for us beginning January 1, 2013. Since this guidance impacts presentation only, it will have no effect on our financial condition, results of operations or cash flows.

In July 2012, the FASB issued new guidance that is now part of ASC 350: *Intangibles Goodwill and Other*. The new guidance permits an entity to first assess qualitative factors to determine whether it is more likely than not that an indefinite-lived intangible asset is impaired as a basis for determining whether it is necessary to perform a quantitative impairment test on indefinite-lived intangible assets. Because the objective of this new guidance is to simplify how entities test for indefinite-lived intangible asset impairment, it will not have a material impact on our financial condition, results of operations or cash flows.

NOTE 3. NATURE OF OPERATIONS

Building Products produces suspended mineral fiber, soft fiber and metal ceiling systems for use in commercial, institutional and residential settings. In addition, our Building Products segment sources complementary ceiling products. Our products, which are sold worldwide, are available in numerous colors, performance characteristics and designs, and offer attributes such as acoustical control, rated fire protection and aesthetic appeal. Commercial ceiling materials and accessories are sold to ceiling systems contractors and to resale distributors. Residential ceiling products are sold in North America primarily to wholesalers and retailers (including large home centers). Suspension system (grid) products manufactured by Worthington Armstrong Venture (WAVE) are sold by both us and WAVE.

Resilient Flooring produces and sources a broad range of floor coverings primarily for homes and commercial and institutional buildings. Manufactured products in this segment include vinyl sheet, vinyl tile and linoleum flooring. In addition, our Resilient Flooring segment sources and sells laminate flooring products, vinyl tile products, vinyl sheet products, adhesives, and installation and maintenance materials and accessories. Resilient Flooring products are offered in a wide variety of types, designs, and colors. We sell these products worldwide to wholesalers, large home centers, retailers, contractors and to the manufactured homes industry.

Wood Flooring produces and sources wood flooring products for use in new residential construction and renovation, with some commercial applications in stores, restaurants and high-end offices. The product offering includes pre-finished solid and engineered wood floors in various wood species, and related accessories. Virtually all of our Wood Flooring sales are in North America. Our Wood Flooring products are generally sold to independent wholesale flooring distributors and large home centers.

Unallocated Corporate includes assets, liabilities, income and expenses that have not been allocated to the business units. Balance sheet items classified as Unallocated Corporate are primarily income tax related accounts, cash and cash equivalents, the Armstrong brand name, the U.S. prepaid pension cost and long-term debt. Expenses for our corporate departments and certain benefit plans are allocated to the reportable segments based on known metrics, such as specific activity, headcount, or net sales. The remaining items, which cannot be attributed to the reportable segments without a high degree of generalization, are reported in Unallocated Corporate.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

	Building	Resilient	Wood	Unallocated	
For the year ended 2012	Products	Flooring	Flooring	Corporate	Total
Net sales to external customers	\$ 1,218.9	\$ 939.4	\$ 460.6		\$ 2,618.9
Equity (earnings) from joint venture	(55.9)				(55.9)
Segment operating income (loss) ⁽¹⁾	230.4	56.9	37.3	(\$ 53.4)	271.2
Restructuring charges		(0.4)			(0.4)
Segment assets	975.1	617.6	326.4	935.2	2,854.3
Depreciation and amortization	62.2	28.7	11.1	9.0	111.0
Asset impairment	4.6	0.5	0.6		5.7
Investment in joint venture	133.5				133.5
Capital additions	107.9	81.5	14.4	9.2	213.0

	Building	Resilient	Wood	Unallocated	
For the year ended 2011	Products	Flooring	Flooring	Corporate	Total
Net sales to external customers	\$ 1,237.5	\$ 1,002.3	\$ 483.3		\$ 2,723.1
Equity (earnings) from joint venture	(54.9)				(54.9)
Segment operating income (loss) ⁽¹⁾	226.1	15.7	43.4	(\$ 45.4)	239.8
Restructuring charges	1.5	6.8	(0.2)	0.9	9.0
Segment assets	935.6	575.9	329.5	1,153.7	2,994.7
Depreciation and amortization	57.8	32.3	10.5	11.0	111.6
Asset impairment		2.2	0.7		2.9
Investment in joint venture	141.0				141.0
Capital additions	101.6	43.1	9.8	6.6	161.1

	Building	Resilient	Wood	Unallocated	
For the year ended 2010	Products	Flooring	Flooring	Corporate	Total
Net sales to external customers	\$ 1,135.5	\$ 1,013.2	\$ 479.1		\$ 2,627.8
Equity (earnings) from joint venture	(45.0)				(45.0)
Segment operating income (loss) ⁽¹⁾	171.0	13.1	(45.8)	(\$ 50.8)	87.5
Restructuring charges	3.2	13.9	0.9	4.0	22.0
Segment assets	931.4	582.6	340.7	1,067.7	2,922.4
Depreciation and amortization	62.5	38.6	26.4	13.8	141.3
Asset impairment		2.1	22.4	6.1	30.6
Investment in joint venture	188.6				188.6
Capital additions	47.7	24.0	12.2	5.8	89.7

(1) Segment operating income (loss) is the measure of segment profit or loss reviewed by the chief operating decision maker. The sum of the segments operating income (loss) equals the total consolidated operating income as reported on our income statement. The following reconciles our total consolidated operating income to earnings from continuing operations before income taxes. These items are only measured and managed on a consolidated basis:

	2012	2011	2010
Segment operating income	\$ 271.2	\$ 239.8	\$ 87.5
Interest expense	53.7	48.5	21.2

Other non-operating expense	0.5	1.3	1.2 (8.0)
Other non-operating income	(3.5)	(3.8)	
Earnings from continuing operations before income taxes	\$ 220.5	\$ 193.8	\$ 73.1

Accounting policies of the segments are the same as those described in the summary of significant accounting policies.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

The sales in the table below are allocated to geographic areas based upon the location of the customer.

	2012	2011	2010
Geographic Areas			
Net trade sales			
Americas:			
United States	\$ 1,646.9	\$ 1,672.1	\$ 1,603.7
Canada	187.9	179.6	179.4
Other Americas	38.1	42.9	39.5
Total Americas	\$ 1,872.9	\$ 1,894.6	\$ 1,822.6
	+ -,	+ -,	+ -,
Europe, Middle East & Africa:			
Germany	\$ 119.9	\$ 147.8	\$ 146.3
United Kingdom	81.2	85.6	79.9
Russia	63.2	51.2	38.6
France	61.4	71.2	77.4
Other Europe, Middle East & Africa	181.1	228.2	247.8
Total Europe, Middle East & Africa	\$ 506.8	\$ 584.0	\$ 590.0
Pacific Rim:			
Australia	\$ 80.4	\$ 86.1	\$ 85.3
China	74.5	73.6	57.1
Other Pacific Rim	84.3	84.8	72.8
Total Pacific Rim	\$ 239.2	\$ 244.5	\$ 215.2
Total net trade sales	\$ 2,618.9	\$ 2,723.1	\$ 2,627.8

		2012	2011
Property, plant and equipment, net at December 31,			
Americas:			
United States	\$	648.4	\$ 641.3
Other Americas		7.9	1.9
Total Americas	\$	656.3	\$ 643.2
Europe Middle East & Africa.			
Europe, Middle East & Africa:	<i></i>	110 (* 112 7
Germany	\$	119.6	\$ 113.7
Other Europe, Middle East & Africa		49.6	43.1

Total Europe, Middle East & Africa:	\$ 169.2	\$ 156.8
Pacific Rim:		
China	\$ 147.5	\$ 58.3
Other Pacific Rim	32.0	29.6
Total Pacific Rim	\$ 179.5	\$ 87.9
Total property, plant and equipment, net	\$ 1,005.0	\$ 887.9

Impairment testing of our tangible assets occurs whenever events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable.

During the first quarter of 2012, we made the decision to permanently close a previously idled ceiling tile plant in Mobile, AL. As a result, in the first quarter we recorded accelerated depreciation of \$9.3 million for machinery and equipment and a \$4.6 million impairment charge for the buildings in cost of goods sold. We also recorded an additional \$1.7 million in accelerated depreciation related to the machinery and equipment during the remainder of 2012. The fair values were determined by management estimates and an independent valuation based on

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

information available at that time (considered Level 2 inputs in the fair value hierarchy as described in Note 19 to the Consolidated Financial Statements).

During the fourth quarter of 2012, we made the decision to permanently close a previously idled engineered wood flooring production facility in Statesville, NC. As a result, we recorded accelerated depreciation of \$0.6 million for machinery and equipment and a \$0.6 million impairment charge for the buildings in cost of goods sold. The preliminary fair values were determined by management estimates and an independent valuation based on information available at that time (considered Level 2 inputs in the fair value hierarchy).

During the third quarter of 2011, we recorded an asset impairment charge of \$2.2 million in SG&A expense for a European Resilient Flooring office building. The fair value was determined by management estimates of market prices based upon information available, including offers received from potential buyers of the property (considered Level 3 inputs in the fair value hierarchy).

During the fourth quarter of 2011, we recorded asset impairment charges of \$1.1 million in cost of goods sold for two previously occupied manufacturing facilities. The fair values were determined by management estimates and independent market valuations based on information available at that time. The valuation information included sales of similar facilities and estimates of market prices (considered Level 2 inputs in the fair value hierarchy) for these assets. We sold one of the facilities in the fourth quarter of 2012 and the other in the first quarter of 2013.

NOTE 4 ACQUISITIONS

In the fourth quarter of 2011, we acquired Canada-based Intalite, Inc., which operated under the name Simplex, for \$4.2 million. The acquisition, which was financed from existing cash balances, expands our technical capabilities, broadens our specialty ceilings portfolio and improves our service and lead times for customers in North America. The acquisition was accounted for under the purchase method of accounting.

As of December 31, 2009, we owned 80% of our Shanghai, China ceiling operations. During the fourth quarter of 2009, we made deposits of \$3.3 million to initiate the purchase of the remaining 20% interest. During the first quarter of 2010, we completed the acquisition with additional cash payments of \$7.8 million. We recorded the difference between the purchase price and the net book value of the net equity acquired within capital in excess of par value.

NOTE 5. DIVESTITURES

See Note 6 to the Consolidated Financial Statements for a discussion of the 2012 divestiture of our cabinets business, which was accounted for as a discontinued operation.

In the fourth quarter of 2010, the sale of our European metal ceilings contract installation business resulted in a loss of \$5.8 million which was recorded in SG&A expenses.

NOTE 6. DISCONTINUED OPERATIONS

In September 2012, we entered into a definitive agreement to sell our cabinets business to American Industrial Partners (AIP) for \$27 million in cash. During the third quarter, we recorded an impairment charge of \$17.5 million to the cabinets assets to reflect the expected proceeds from the sale. The sale was completed in October 2012. The transaction is subject to working capital adjustments which are expected to be completed in the first quarter of 2013.

The financial results of the cabinets business have been reclassified as discontinued operations for all periods presented. The Consolidated Statement of Cash Flows does not separately report the cash flows of the discontinued operation.

The following is a summary of the operating results of the cabinets business (previously shown as the Cabinets reporting segment), which are included in discontinued operations.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

	2012	2011	2010
Net sales	\$ 115.7	\$ 136.4	\$ 138.6
(Loss) before income tax	(20.8)	(0.6)	(6.4)
Income tax benefit	7.7	0.2	2.3
Net (loss) from discontinued operations	(\$ 13.1)	(\$ 0.4)	(\$ 4.1)

The following is a summary of the assets and liabilities of the discontinued operations as of December 31, 2011.

	December 31, 2011	,
Accounts and notes receivable, net	\$ 11.1	
Inventories, net	12.8	;
Other assets	0.5	j –
Current assets of discontinued operations	\$ 24.4	ļ

	mber 31, 2011
Property, plant and equipment, net	15.0
Other assets	3.7
Noncurrent assets of discontinued operations	\$ 18.7

	nber 31, 011
Accounts payable and accrued expenses	\$ 6.4
Liabilities of discontinued operations	\$ 6.4

NOTE 7. ACCOUNTS AND NOTES RECEIVABLE

	December 3 2012	1, December 31, 2011
Customer receivables	\$ 228.	1 \$ 251.1
Customer notes	4.	5 1.7
Miscellaneous receivables	7.	6 7.9
Less allowance for warranties, discounts and losses	(35.	6) (39.3)

Accounts and notes receivable, net \$	5	204.6	\$	221.4
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Generally, we sell our products to select, pre-approved customers whose businesses are affected by changes in economic and market conditions. We consider these factors and the financial condition of each customer when establishing our allowance for losses from doubtful accounts.

NOTE 8. INVENTORIES

	ember 31, 2012	December 31 2011		
Finished goods	\$ 265.9	\$	266.0	
Goods in process	27.6		25.1	
Raw materials and supplies	107.8		110.8	
Less LIFO and other reserves	(31.5)		(25.8)	
Total inventories, net	\$ 369.8	\$	376.1	

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

Approximately 63% and 66% of our total inventory in 2012 and 2011, respectively, was valued on a LIFO (last-in, first-out) basis. Inventory values were lower than would have been reported on a total FIFO (first-in, first-out) basis by \$18.1 million and \$15.6 million in 2012 and 2011, respectively.

The distinction between the use of different methods of inventory valuation is primarily based on geographical locations and/or legal entities rather than types of inventory. The following table summarizes the amount of inventory that is not accounted for under the LIFO method.

	December 31,	Dec	ember 31,
	2012		2011
International locations	\$ 132.3	\$	126.2
U.S. sourced products	3.6		3.1
Total	\$ 135.9	\$	129.3

Substantially all of our international locations use the FIFO method of inventory valuation (or other methods which closely approximate the FIFO method) primarily because either the LIFO method is not permitted for local tax and/or statutory reporting purposes, or the entities were part of various acquisitions that had adopted the FIFO method prior to our acquisition. In these situations, a conversion to LIFO would be highly complex and involve excessive cost and effort to achieve under local tax and/or statutory reporting requirements.

The sourced products represent certain finished goods sourced from third party manufacturers, primarily from foreign suppliers.

NOTE 9. OTHER CURRENT ASSETS

	mber 31, 2012	December 31, 2011		
Prepaid expenses	\$ 39.0	\$	27.2	
Assets held for sale	1.8		6.2	
Fair value of derivative assets	0.3		2.4	
Other	1.2		2.3	
Total other current assets	\$ 42.3	\$	38.1	

NOTE 10. PROPERTY, PLANT AND EQUIPMENT

	December 31, 2012	December 31, 2011
Land	\$ 111.6	\$ 111.3
Buildings	318.4	297.3
Machinery and equipment	940.7	827.2
Computer software	11.5	16.1
Construction in progress	206.6	134.8

Less accumulated depreciation and amortization	(583.8)	(498.8)
Net property, plant and equipment	\$ 1,005.0	\$ 887.9

Since 2009, our Board of Directors has approved the construction of five manufacturing plants. These include a U.S. mineral wool plant to supply our Building Products plants, mineral fiber ceiling plants in Russia and China, and two flooring plants in China. Total capital spending for these projects is currently projected to be approximately \$310 million. Through December 31, 2012, we have incurred approximately \$175 million related to these projects. The spending will be incurred through 2015 with the majority of the remaining spending expected to occur in 2013.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

See Note 2 to the Consolidated Financial Statements for discussion of policies related to property and depreciation and asset retirement obligations.

NOTE 11. EQUITY INVESTMENTS

Investment in joint venture at December 31, 2012 reflected the equity interest in our 50% investment in our Worthington Armstrong Venture (WAVE) joint venture.

We use the equity in earnings method to determine the appropriate classification of distributions from WAVE within our cash flow statement. During 2012, 2011 and 2010, WAVE distributed amounts in excess of our capital contributions and proportionate share of retained earnings. Accordingly, the distributions in these years were reflected as a return of investment in cash flows from investing activity in our Consolidated Statement of Cash Flows. Distributions from WAVE in 2012, 2011 and 2010 were \$63.5 million, \$102.4 million (including a special distribution of \$50.1 million in December 2011), and \$51.0 million, respectively.

The WAVE joint venture is reflected in our consolidated financial statements using the equity method of accounting. In certain markets, we sell WAVE products directly to customers pursuant to specific terms of sale. In those circumstances, we record the sales and associated costs within our consolidated financial statements. The total sales associated with these transactions were \$114.3 million, \$119.0 million and \$102.5 million for the years ended 2012, 2011 and 2010, respectively.

Our recorded investment in WAVE was higher than our 50% share of the carrying values reported in WAVE s consolidated financial statements by \$188.9 million as of December 31, 2012 and \$194.7 million as of December 31, 2011. These differences are due to our adoption of fresh-start reporting upon emergence from Chapter 11, while WAVE s consolidated financial statements do not reflect fresh-start reporting. The differences are composed of the following fair value adjustments to assets:

	ember 31, 2012	December 31, 2011		
Property, plant and equipment	\$ 0.7	\$	1.0	
Other intangibles	157.8		163.3	
Goodwill	30.4		30.4	
Total	\$ 188.9	\$	194.7	

Other intangibles include customer relationships, trademarks and developed technology. Customer relationships are amortized over 20 years and developed technology is amortized over 15 years. Trademarks have an indefinite life.

See Exhibit 99.1 for WAVE s consolidated financial statements. Condensed financial data for WAVE is summarized below:

	December 31,	December 31,
	2012	2011
Current assets	\$ 113.3	\$ 115.0
Non-current assets	38.5	36.2
Current liabilities	24.9	23.8
Other non-current liabilities	243.2	242.0

	2012	2011	2010
Net sales	\$ 368.0	\$ 367.2	\$ 332.2
Gross profit	163.7	155.7	137.5
Net earnings	125.5	123.7	105.8

See discussion in Note 30 to the Consolidated Financial Statements for additional information on this related party.

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

NOTE 12. INTANGIBLE ASSETS

We conduct our annual impairment testing of non-amortizable intangible assets during the fourth quarter. In 2010 our impairment analysis determined that the carrying value of our Wood Flooring trademarks was in excess of the fair value. We determined the fair value of these intangible assets by utilizing relief from royalty analysis that incorporated projections of revenue and cash flows. The initial fair value for these intangible assets was determined in 2006 as part of fresh start reporting. The fair values were negatively affected by lower expected future sales in the U.S. residential housing market. Based on the result of the analysis, we recorded non-cash impairment charges of \$22.4 million in the fourth quarter of 2010. See Note 2 to the Consolidated Financial Statements for a discussion of our accounting policy for intangible assets.

The following table details amounts related to our intangible assets as of December 31, 2012 and 2011:

	Estimated	December 31, 2012 Gross		December 31 Gross		2011	
	Useful Life	Carrying Amount		mulated	Carrying Amount		mulated rtization
Amortizing intangible assets							
Customer relationships	20 years	\$ 165.4	\$	51.9	\$ 166.0	\$	43.6
Developed technology	15 years	81.9		33.8	81.1		28.3
Other	Various	15.0		1.3	14.6		1.0
Total		\$ 262.3	\$	87.0	\$ 261.7	\$	72.9
Non-amortizing intangible assets							
Trademarks and brand names	Indefinite	352.4			352.8		
Total intangible assets		\$614.7			\$614.5		

	2012	2011	2010
Amortization expense	\$ 14.1	\$ 14.0	\$13.9
Intangible asset impairment			22.4
Total amortization expense and impairment charges	\$ 14.1	\$ 14.0	\$ 36.3

The expected annual amortization expense for the years 2013 through 2017 is approximately \$14 million.

NOTE 13. OTHER NON-CURRENT ASSETS

	December 31, 2012	December 31, 2011
Cash surrender value of Company owned life insurance policies	\$ 58.8	\$ 58.5

Debt financing costs Other	23.9 10.8	21.3 10.5
Total other non-current assets	\$ 93.5	\$ 90.3

Armstrong World Industries, Inc., and Subsidiaries

Notes to Consolidated Financial Statements

(dollar amounts in millions)

NOTE 14. ACCOUNTS PAYABLE AND ACCRUED EXPENSES

	ember 31, 2012	December 31, 2011		
Payables, trade and other	\$ 216.7	\$ 209.0		
Employment costs	81.6	91.9		
Other	48.0	52.4		
Total accounts payable and accrued expenses	\$ 346.3	\$ 353.3		

NOTE 15. SEVERANCE AND RELATED COSTS

See Note 16 to the Consolidated Financial Statements for a discussion of severance charges associated with restructuring actions.

In the second quarter of 2012, we recorded \$3.4 million for severance and related costs in SG&A expense (\$3.2M) and cost of goods sold (\$0.2M) to reflect approximately 35 position eliminations in our European Building Products business, primarily as a result of streamlining SG&A functions.

In the first quarter of 2011, we recorded \$3.0 million in cost of goods sold for severance and related costs to reflect position eliminations in our European Resilient Flooring business as a result of improved manufacturing productivity. In addition, we recorded \$0.5 million in SG&A expense for severance and related costs to reflect the separation costs for our former Senior Vice President, General Counsel and Secretary.

In 2010, we recorded \$11.2 million in SG&A expense for severance and related costs to reflect the separation costs for our former Chairman and Chief Executive Officer.

During 2010, we announced the shutdown of finished goods production at two Wood Flooring plants, the restarting of certain operations at a previously idled Wood Flooring plant, the closure of a European metal ceilings manufacturing facility and a crew reduction in a European Building Products plant. We recorded \$5.7 million of severance and related expenses in 2010 for approximately 500 employees affected by these actions. The charges were recorded in cost of goods sold.

In addition to the charges described above, in 2010 we also recorded \$6.3 million of severance and related expenses for employees affected by the elimination of approximately 160 other manufacturing and SG&A positions around the world. The charges were recorded in SG&A expense (\$4.5 million) and cost of goods sold (\$1.8 million).

NOTE 16. RESTRUCTURING ACTIONS

During the third quarter of 2010, management made several significant decisions to address our cost structure. Given the materiality to our financial statements and impact to our operations, we decided to classify charges related to these actions as restructuring charges. The following table summarizes the restructuring charges recorded in 2012, 2011 and 2010:

Action Title	2012	2011	2010	Segment
Floor Products Europe	(\$ 0.4)	\$ 6.4	\$11.8	Resilient Flooring

North America SG&A				Unallocated Corporate, Resilient
		1.4	5.8	Flooring, Building Products
Beaver Falls plant		1.4	2.3	Building Products
Montreal			1.2	Resilient Flooring
Wood products		(0.2)	0.9	Wood Flooring
Total	(\$ 0.4)	\$ 9.0	\$ 22.0	

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(dollar amounts in millions)

<u>Floor Products Europe</u>: In the third quarter of 2010, we announced our intent to focus our European flooring strategy on products and regions in which we believe we can be a market leader, and to streamline our product range and sales organization accordingly. During the fourth quarter of 2010, we withdrew from the residential market and, as a result, we sold our Teesside, UK manufacturing facility. In addition, during the second quarter of 2011, we ceased production at our heterogeneous vinyl flooring plant in Holmsund, Sweden. This facility was sold in December 2012.

In addition to the restructuring costs reflected in the above table, we recorded \$6.7 million in 2011 of other related costs in cost of goods sold (\$5.2 million) and SG&A expense (\$1.5 million). We also recorded other related costs of \$3.5 million in cost of goods sold and \$1.5 million in SG&A in 2010. Other related costs are primarily related to inventory and samples obsolescence, accelerated depreciation and plant closure costs.

Through December 31, 2012, we have incurred expense of \$29.5 million related to this initiative. We do not expect to incur further material restructuring costs related to this initiative.

<u>North America SG&A</u>: We are committed to augmenting margin expansion through the aggressive adoption of projects to standardize, simplify or eliminate SG&A activities. As a result, in the third quarter of 2010, we began to restructure our North American SG&A operations. The 2011 restructuring expense related to this initiative was recorded in the Unallocated Corporate (\$0.9 million), Resilient Flooring (\$0.4 million) and Building Products (\$0.1 million) segments. The 2010 restructuring expense related to this initiative was recorded in the Unallocated Corporate (\$4.0 million), Resilient Flooring (\$0.9 million) and Building Products (\$0.9 million) segments.

Through December 31, 2012, we have incurred restructuring expense of \$7.2 million related to this initiative. We do not expect to incur further material restructuring costs related to this initiative.

<u>Beaver Falls Plant</u>: In the third quarter of 2010, we announced that the Beaver Falls, PA, plant was scheduled to close in 2011. Production at the facility ended March 31, 2011, and production requirements have been transitioned to other facilities. The decision to close the plant was driven by the location and layout of the plant, technology limitations and the continued limited demand for the products we made at the plant.

In addition to the restructuring costs reflected in the table above, we also recorded \$6.6 million of accelerated depreciation and \$4.8 million of closure-related costs in 2011 in cost of goods sold. We also recorded \$10.0 million of accelerated depreciation in cost of goods sold in 2010.

Through December 31, 2012, we have incurred expense of \$25.1 million related to this initiative. We do not expect to incur additional costs in the future as the plant was sold in 2011. The sale resulted in a net gain of \$0.7 million which was recorded in SG&A in 2011.

<u>Montreal:</u> In the third quarter of 2010, we announced the closing of our warehouse and previously idled plant in Montreal, Canada. The facility closed in the fourth quarter of 2010. The decision to close this facility was driven by our ability to service the demand for our resilient tile products from our other manufacturing locations.

In addition to the restructuring costs reflected in the previous table, we also recorded \$6.5 million of fixed asset write-downs in cost of goods sold in 2010.

We do not expect to incur further restructuring costs related to this initiative.

<u>Wood Products:</u> In the third quarter of 2010, we announced the closing of our previously idled Center, TX plant and a portion of our previously idled Oneida, TN plant. Operations at Center and the strip mill operations at Oneida ceased in the fourth quarter of 2010. The decision to close these facilities was driven by our ability to service the demand for our wood products from our other manufacturing locations.

In addition to the restructuring costs reflected in the previous table, we also recorded \$14.9 million of fixed asset write-downs and lease termination costs in cost of goods sold in 2010.

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We do not expect to incur further restructuring costs related to these locations.

Armstrong World Industries, Inc., and Subsidiaries

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(dollar amounts in millions)

The following table summarizes activity in the restructuring accruals.

	Severance and Related Costs Floor North Beaver					
	Products	America	Falls		Wood	
	Europe	SG&A	Plant	Montreal	Products	Total
December 31, 2010	\$ 6.1	\$ 4.7	\$ 1.9	\$ 1.2	\$ 0.6	\$ 14.5
Net charges (reversals)	6.4	1.4	1.4		(0.2)	9.0
Cash payments	(9.6)	(5.6)	(3.2)	(1.2)	(0.4)	(20.0)
Other	0.3					0.3
December 31, 2011	\$ 3.2	\$ 0.5	\$ 0.1			\$ 3.8
Reversals	(0.4)					(0.4)
Cash payments	(2.3)	(0.5)				(2.8)
Other	0.2					0.2
December 31, 2012	\$ 0.7		\$ 0.1			\$ 0.8

The amounts in Other are related to the effects of foreign currency translation.

Most of the accrual balance as of December 31, 2012 is expected to be paid in 2013.

NOTE 17. INCOME TAXES

The tax effects of principal temporary differences between the carrying amounts of assets and liabilities and their tax bases are summarized in the following table. Management believes it is more likely than not that the results of future operations will generate sufficient taxable income and foreign source income to realize deferred tax assets, net of valuation allowances. In arriving at this conclusion, we considered the profit before tax generated for the years 2010 through 2012, as well as future reversals of existing taxable temporary differences and projections of future profit before tax and foreign source income.

We reduce the carrying amounts of deferred tax assets by a valuation allowance if, based on the available evidence, it is more likely than not that such assets will not be realized. The need to establish valuation allowances for deferred tax assets is assessed quarterly. In assessing the requirement for, and amount of, a valuation allowance in accordance with the more likely than not standard for all periods, we give appropriate consideration to all positive and negative evidence related to the realization of the deferred tax assets. This assessment considers, among other matters, the nature, frequency and severity of current and cumulative losses, forecasts of future profitability and foreign source income, the duration of statutory carryforward periods, and our experience with operating loss and tax credit carryforward expirations. A history of cumulative losses is a significant piece of negative evidence used in our assessment. If a history of cumulative losses is incurred for a tax jurisdiction, forecasts of future profitability are not used as positive evidence related to the realization of the deferred tax assets in the assessment.

We have established a valuation allowance in the amount of \$205.5 million consisting of \$16.0 million for federal capital loss carryovers and statutorily limited operating loss carryovers, \$16.2 million for state deferred tax assets, primarily operating loss carryovers, and \$173.3 million for foreign deferred tax assets, primarily foreign operating loss carryovers.

We have \$1,145.6 million of state net operating loss (NOL) carryforwards with expirations between 2013 and 2032. In addition, we have \$587.6 million of foreign NOL carryforwards, of which \$540.2 million are available for carryforward indefinitely and \$47.4 million expire between 2013 and 2027. We also have U.S. foreign tax credit carryforwards of \$119.1 million expiring between 2013 and 2022, and federal alternative minimum tax credit carryforwards of \$13.8 million with no expiration date.

Our valuation allowances at December 31, 2012, increased from December 31, 2011 by a net amount of \$10.6 million. This includes a net increase for certain foreign deferred tax assets of \$23.9 million and net decreases of \$10.8 million for federal deferred tax assets and \$2.5 million for certain deferred state income tax assets. The

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increase in the valuation allowance for deferred foreign income tax assets was primarily due to additional foreign losses and other deferred tax assets, partially offset by the impact of current year income and carryforward expirations. The decrease in the valuation allowance for deferred federal income tax assets of \$10.8 million was primarily due to the release of the valuation allowance against foreign tax credits of \$15.7 million offset by an increase in a valuation allowance for certain statutorily limited federal losses of \$4.9 million. The decrease in the valuation allowance for certain statutorily limited federal losses of \$4.9 million. The decrease in deferred tax assets. We estimate we will need to generate future federal taxable income of \$340.4 million, including foreign source income of \$53.0 million, to fully realize the foreign tax credits before they expire in 2022. We estimate we will need to generate future taxable income tax assets discussed above.

The Internal Revenue Code imposes limitations on a corporation s ability to utilize federal tax attributes, including foreign tax credits, if it experiences an ownership change. In general terms, an ownership change may result from transactions increasing the ownership of certain stockholders in the stock of a corporation by more than 50 percentage points over a three-year period. There have been no ownership changes as defined in the Internal Revenue Code subsequent to our bankruptcy emergence. Future ownership changes could have an impact on our ability to utilize the deferred tax assets discussed above.

	December 31, 2012		Dec	ember 31, 2011
Deferred income tax assets (liabilities)				
Postretirement benefits	\$	105.9	\$	116.3
Pension benefit liabilities		30.7		17.8
Net operating losses		218.6		247.8
Foreign tax credit carryforwards		119.1		118.2
Other		104.2		95.5
Total deferred income tax assets		578.5		595.6
Valuation allowances		(205.5)		(194.9)
Net deferred income tax assets		373.0		400.7
Intangibles		(245.6)		(253.4)
Accumulated depreciation		(83.8)		(86.6)
Inventories		(20.8)		(21.9)
Other		(5.3)		(10.5)
Total deferred income tax liabilities		(355.5)		(372.4)
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Net deferred income tax assets	\$	17.5	\$	28.3

Deferred income taxes have been classified in the Consolidated Balance

Sheet as:		
Deferred income tax assets current	\$ 49.9	\$ 45.3
Deferred income tax assets noncurrent	35.1	46.4
Deferred income tax liabilities current	(1.3)	(2.4)
Deferred income tax liabilities noncurrent	(66.2)	(61.0)

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Net deferred income tax assets	\$ 17.5	\$ 28.3

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	2012	2011	2010
Details of taxes			
Earnings (loss) before income taxes:			
Domestic	\$ 188.6	\$ 221.2	\$ 236.3
Foreign	31.9	(3.9)	(17.1)
Eliminations of dividends from foreign subsidiaries		(23.5)	(146.1)
Total	\$ 220.5	\$ 193.8	\$ 73.1
Income tax provision (benefit):			

Current: