

INDUSTRY INSIGHTS BUILDING PRODUCTS & MATERIALS 1Q 2018 M&A MARKET UPDATE



Inside This Issue...

This issue of the *Building Products & Materials* (BP&M) newsletter highlights the macroeconomic drivers supporting the strength in mergers and acquisitions (M&A) activity in the sector and frothy valuation multiples. During the latter part of 2017, many potential acquirers put M&A on hold due to uncertainty surrounding U.S. tax policy. Industry participants expect strong M&A activity in 2018 following the implementation of corporatefriendly tax reform combined with strong economic fundamentals and robust construction activity. In particular, optimism surrounding the residential construction market continues to strengthen as highlighted by the National Association of Home Builders (NAHB) Housing Market Index closing 2017 at its highest level (74) since 1999. Investors continue to view an expected jump in public sector construction activity from a comprehensive infrastructure investment package as a potential upside across the BP&M industry.

Based on our own announced transactions and other potential deals in the pipeline, we expect strong momentum in M&A activity across the building products sector going into 2018. Strategic players are seeking to grow market share via acquisition and are looking to augment their brand portfolio and technological advantage while improving their supply channels and network. Meanwhile, a large number of private equity firms continue to seek opportunities for new platforms and bolt-on acquisitions for existing portfolio companies.

BDO Capital Advisors, LLC provides counsel in the areas of:

- > Mergers & Acquisitions
- > Capital Raising
- Board Advisory

Please direct inquiries to:

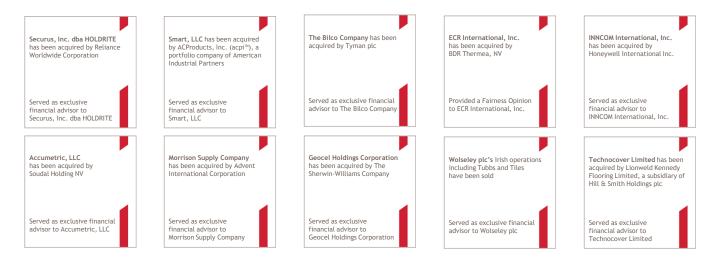


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SELECT BDO CAPITAL BP&M TRANSACTIONS



ECONOMIC INDICATORS - U.S. RESIDENTIAL

COMMENTARY

- After natural disasters slowed construction in 3Q17, the NAHB Housing Market Index (HMI) closed 2017 at its highest level (74) since 1999
- The HMI has exceeded 50 for 41 straight months, which is consistent with the ongoing recovery of the housing market
- Sustained strong performance through 2017 indicates continued confidence in expected growth of the U.S. residential construction market going into 2018

NAHB Housing Market Index (Builders Confidence)

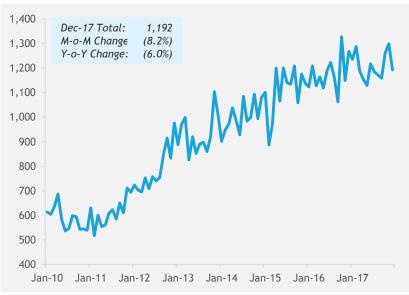


Seasonally Adjusted Source: National Association of Home Builders

COMMENTARY

- With a seasonally adjusted annual rate of 1,192K units, Dec-17 closed higher than its three-year monthly average of 1,163K units, continuing the trend of strong growth in residential construction starts
- U.S. housing starts have remained above 1 million units for 33 consecutive months
- Despite a dip in December, 2017 experienced 2.5 percent year-overyear growth in total housing starts compared to 2016, supporting the view that the residential construction market remains robust and is expected to continue expanding into 2018

National Housing Starts ('000s of units)



Seasonally Adjusted Annual Rate Source: United States Census Bureau

ECONOMIC INDICATORS - U.S. REMODELING

COMMENTARY

- According to the Leading Indicator of Remodeling Activity (LIRA), home improvement and repair spending increased 6.3 percent in 4Q17 to \$315 billion, and is expected to increase 6.9 percent in 1Q18
- \$315 billion marks the highest fourquarter moving total spend on homeowner improvement and repair ever, and is \$19 billion higher than 4Q16
- The LIRA has increased every quarter since 1Q10, pointing to continuous growth in the remodeling market since the Great Recession
- U.S. homeowner improvement and repair spending is projected to continue expanding in excess of 6.0 percent through 4Q18

COMMENTARY

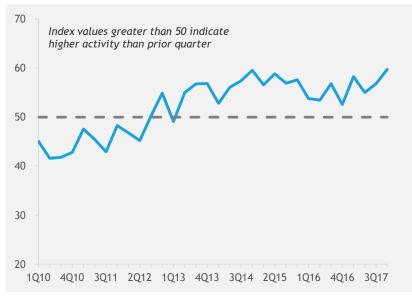
- The Remodeling Market Index (RMI) posted an all-time record high in 4Q17, reaching 59.8, as a booming stock market and low unemployment continue to fuel consumers' investment in their homes
- Natural disaster-related repairs also caused strong demand for maintenance and repair projects in 4Q17, a trend that is expected to continue through 2018
- The RMI has remained above 50 for 19 consecutive quarters, going back to 2Q13, illustrating the sustained strength and growth of the U.S. remodeling market



Leading Indicator of Remodeling Activity (LIRA)

Historical data through 2015 are Joint Center for Housing Studies estimates based on American Housing Survey (AHS) data. Historical estimates since 2015 are produced using the Leading Indicator of Remodeling Activity model until new AHS data becomes available. Projections (p) are produced by the LIRA. Source: Joint Center for Housing Studies

Remodeling Market Index



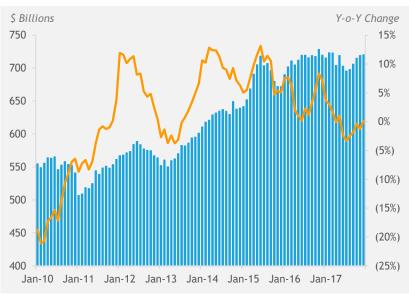
Seasonally Adjusted Source: National Association of Home Builders

ECONOMIC INDICATORS - U.S. NON-RESIDENTIAL

COMMENTARY

- Non-residential construction put in place totaled \$720 billion in Dec-17, representing a 0.1 percent increase over the same month a year ago
- After natural disasters adversely affected non-residential construction put in place during 3Q17, the total non-residential construction put in place closed 2017 with the strongest December ever recorded
- Industry participants continue to wait on the promised implementation of a comprehensive infrastructure investment program which, if passed, could spur stronger growth in non-residential construction during 2018

Non-Residential Construction Put in Place

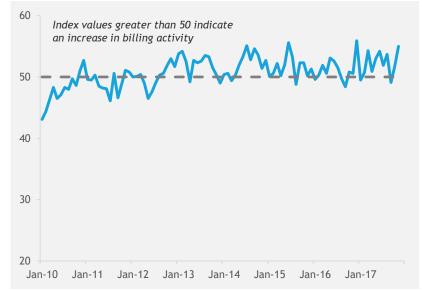


Seasonally Adjusted Annual Rate Source: United States Census Bureau

COMMENTARY

- The American Institute of Architects' (AIA's) monthly Architecture Billings Index (ABI) is a leading economic indicator for nonresidential construction activity, with a lead time of approximately 9-12 months
- Despite month-to-month volatility, the ABI averaged 52.2 in 2017, which is the highest annual average since the Great Recession
- 2017 ended strong with Dec-17 reporting an ABI index value of 52.9, with billings increasing in 10 of the year's 12 months

AIA Architectural Billings Index



Source: The American Institute of Architects

SECTOR M&A ACTIVITY

COMMENTARY

- Despite pulling back slightly from 2016 levels, 2017 was still an active year for U.S. building products and materials M&A
- M&A activity in the BP&M industry is expected to remain strong throughout 2018, driven by low interest rates, strong industry fundamentals and an abundance of debt and equity capital accessible by private equity and strategic acquirers
- Corporation-friendly tax reform is expected to accelerate M&A activity across the BP&M industry in 2018
- Buyers are seeking to expand market share and deepen existing platforms

201 198 192 170 174

2015

2016

2017

Announced M&A Transactions: U.S. BP&M Industry



2014



Source: S&P Capital IQ

2013

Source: S&P Capital IQ

COMMENTARY

- Total reported deal value in 2017 was \$5.9 billion, 49 percent less than total 2016 M&A value in the BP&M industry
- Martin Marietta Materials' (NYSE:MLM) \$1.6 billion acquisition of Bluegrass Materials Company was the largest reported deal in 2017 and was one of three announced deals with a reported value over \$500 million
- Median announced transaction value in 2017 was \$37.2 million, as the majority of deals occurred in the middle market

SECTOR VALUATION TRENDS

COMMENTARY

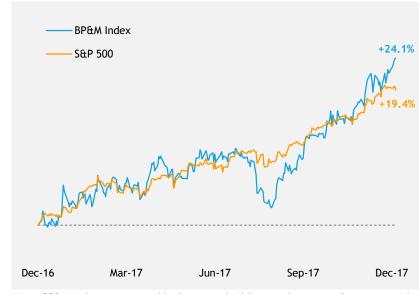
- Public company multiples suggest that investors expect continued sales and EBITDA growth in 2018
- Average company trading at 92 percent of 52-week high



Median U.S. BP&M TEV/EBITDA Multiples

Note: Constituents include large cap building products manufacturers, mid-cap building products manufacturers and building materials manufacturers highlighted on page 8 herein; multiples as of 12/31/17 Source: S&P Capital IQ

BP&M Equity Market Performance v. S&P 500 Index



Note: BP&M Index represented by large cap building products manufacturers, midcap building products manufacturers and building materials manufacturers highlighted on page 8 herein Source: S&P Capital IQ

COMMENTARY

- BP&M stocks experienced accelerating momentum during 2017 due to the ongoing strengthening of industry fundamentals and a continued optimism surrounding the expected growth in both residential and non-residential construction
- The building products and materials index increased 24.1 percent during 2017 relative to the overall S&P 500, which gained 19.4 percent
- Owens Corning (NYSE:OC) was the best performing stock in the BP&M index, increasing 78.3 percent during 2017

PUBLIC COMPANY TRADING STATISTICS

USD millions, except per share data

	Stock	% of						Enterprise Value/		Enterprise Value/	
	Price	52 Week	Market	Enterprise	Gross	EBITDA	2-Yr Rev	LTM	LTM	2018E	2018E
	12/31/17	High	Cap	Value	Margin	Margin	Growth	Revenue	EBITDA	Revenue	EBITDA
Large Cap Building Products Manufacturers											
Daikin Industries,Ltd.	118.39	97.6%	34,619	36,446	35.2%	15.2%	14.4%	1.9 x	12.4 x	1.7 x	11.3 x
Compagnie de Saint-Gobain S.A.	55.21	87.7%	30,425	39,042	25.6%	10.3%	(2.5%)	0.8 x	7.9 x	0.8 x	7.0 x
Masco Corporation	43.94	98.9%	13,822	15,909	34.1%	16.6%	(12.5%)	2.1 x	12.7 x	2.0 x	11.2 x
Fortune Brands Home & Security, Inc.	68.44	98.1%	10,389	11,576	36.9%	16.2%	18.4%	2.2 x	13.8 x	2.1 x	12.0 x
Owens Corning	91.94	99.0%	10,227	12,643	24.8%	18.3%	15.3%	2.1 x	11.2 x	1.8 x	9.1 x
Lennox International Inc.	208.26	97.4%	8,700	9,764	29.5%	14.8%	11.6%	2.5 x	17.1 x	2.4 x	15.1 x
Kingspan Group plc	43.71	97.5%	7,843	8,430	29.2%	12.4%	55.2%	2.1 x	16.7 x	1.7 x	13.9 x
James Hardie Industries plc	17.67	97.5%	7,801	8,402	33.9%	21.7%	18.1%	4.3 x	19.6 x	3.5 x	14.7 x
USG Corporation	38.56	99.1%	5,455	6,124	20.8%	16.9%	(18.3%)	2.0 x	11.7 x	1.9 x	9.3 x
Mean		97.0%			30.0%	15.8%	11.1%	2.2 x	13.7 x	2.0 x	11.5 x
Median		97.6%			29.5%	16.2%	14.4%	2.1 x	12.7 x	1.9 x	11.3 x
Mid-Cap Building Products Manufacturers											
Armstrong World Industries, Inc.	60.55	98.5%	3,202	3,944	31.4%	25.4%	(46.7%)	3.0 x	12.0 x	3.7 x	10.7 x
Trex Company, Inc.	108.39	91.4%	3,187	3,161	42.8%	28.7%	26.4%	5.9 x	20.5 x	4.9 x	17.1 x
Simpson Manufacturing Co., Inc.	57.41	93.2%	2,716	2,516	46.4%	18.6%	21.9%	2.7 x	14.3 x	2.4 x	11.5 x
Masonite International Corporation	74.15	86.9%	2,111	2,600	20.1%	11.5%	9.3%	1.3 x	11.3 x	1.2 x	9.3 x
American Woodmark Corporation	130.25	95.7%	2,090	1,888	21.2%	12.0%	20.0%	1.8 x	14.9 x	1.6 x	13.0 x
AAON, Inc.	36.70	96.1%	1,926	1,886	30.3%	22.9%	13.5%	4.8 x	21.0 x	4.0 x	16.3 x
NCI Building Systems, Inc.	19.30	91.0%	1,269	1,591	23.5%	8.7%	13.2%	0.9 x	10.3 x	0.9 x	8.2 x
Ply Gem Holdings, Inc	18.50	92.5%	1,267	2,086	23.1%	11.1%	7.7%	1.0 x	9.4 x	1.0 x	7.5 x
Gibraltar Industries, Inc.	33.00	73.3%	1,042	1,044	24.9%	12.1%	(0.0%)	1.1 x	9.0 x	1.0 x	7.9 x
Griffon Corporation	20.35	75.0%	898	1,826	26.8%	8.3%	(24.4%)	1.2 x	14.4 x	1.0 x	11.4 x
Quanex Building Products Corporation	23.40	95.1%	815	1,037	22.4%	10.7%	34.2%	1.2 x	11.2 x	1.2 x	9.9 x
Systemair AB	15.30	78.0%	796	985	33.7%	9.2%	18.4%	1.1 x	12.2 x	1.0 x	9.8 x
Mean		88.9%			28.9%	14.9%	7.8%	2.2 x	13.4 x	2.0 x	11.1 x
Median		91.9%			25.8%	11.7%	13.3%	1.2 x	12.1 x	1.2 x	10.3 x
Building Materials Manufacturers											
LafargeHolcim Ltd	56.38	90.4%	34,155	54,084	43.5%	21.1%	23.4%	2.0 x	9.6 x	1.9 x	8.4 x
CRH plc	35.97	85.9%	30,163	38,546	32.5%	11.7%	40.7%	1.2 x	10.0 x	1.2 x	8.8 x
Weyerhaeuser Company	35.26	95.5%	26,615	32,624	25.3%	25.7%	(2.3%)	4.7 x	18.2 x	4.3 x	14.9 x
HeidelbergCement AG	108.67	96.5%	21,561	35,051	61.0%	18.5%	36.4%	1.7 x	9.1 x	1.6 x	8.2 x
Vulcan Materials Company	128.37	93.8%	16,981	19,095	26.3%	25.1%	14.0%	5.0 x	20.1 x	4.5 x	15.4 x
Martin Marietta Materials, Inc.	221.04	90.5%	13,894	15,586	25.3%	26.2%	13.2%	4.2 x	16.1 x	3.8 x	13.3 x
CEMEX, S.A.B. de C.V.	0.75	76.3%	11,297	22,431	34.6%	19.5%	5.7%	1.7 x	8.8 x	1.6 x	7.7 x
Eagle Materials Inc.	113.30	97.1%	5,509	6,135	25.2%	34.0%	17.2%	4.6 x	13.6 x	3.9 x	10.3 x
West Fraser Timber Co. Ltd.	61.85	92.9%	4,820	5,219	37.6%	18.1%	28.7%	1.3 x	7.4 x	1.2 x	6.9 x
Louisiana-Pacific Corporation	26.26	89.2%	3,804	3,331	28.4%	20.7%	36.7%	1.3 x	6.3 x	1.2 x	5.9 x
Summit Materials, Inc.	31.44	96.5%	3,458	5,021	33.7%	21.6%	36.7%	2.7 x	12.5 x	2.6 x	9.9 x
Titan Cement Company S.A.	27.50	84.2%	2,148	3,134	29.4%	18.2%	22.5%	1.7 x	9.4 x	1.6 x	8.1 x
Mean		90.7%			33.6%	21.7%	22.7%	2.7 x	11.8 x	2.4 x	9.8 x
Median		91.7%			31.0%	20.9%	23.0%	1.9 x	9.8 x	1.8 x	8.6 x
Source: S&P Capital IQ											

Source: S&P Capital IQ

NOTABLE M&A TRANSACTIONS

Announced Date	Target	Acquirer	Target Business Description				
12/22/2017	Tennessee Assets of Aggregates USA, LLC	Blue Water Industries LLC	Manufactures construction aggregates				
12/20/2017	EMSEAL Joint Systems, LTD.	Sika AG	Manufacturer of structural expansion joint products for new construction and refurbishment				
12/20/2017	WES, LLC	AZEK Building Products, Inc.	Manufacturer of engineered railing systems and assembly machines				
12/19/2017	Piedmont Marble Inc. and Tiffany Marble & Glass Co	Majestic Marble And Glass Company	Manufactures marble and glass products				
12/19/2017	Voyager, Inc.	Wait Industries, LLC	Manufacturer of precision metal products				
12/11/2017	Nickell Moulding Company Inc.	Patrick Industries, Inc.	Manufacturer of architectural, cabinet and picture framing moulding components and frames				
12/8/2017	Enduris Inc., Endeck Product Line	Eastern Metal Supply, Inc.	Manufactures cellular polyvinyl chloride (PVC) decking products				
12/4/2017	Blue Diamond Industries, LLC	Hexatronic Group AB (publ)	Manufactures and sells high density polyethylene (HDPE) pipe and conduit products				
12/1/2017	RSI Home Products, Inc.	American Woodmark Corporation	Designs, manufactures, and supplies kitchen, bath, and home organization products				
12/1/2017	Spin-Works International Corp.	Compagnie de Saint-Gobain S.A.	Manufactures and sells thermal ceramic products for high temperature metal processes				
11/30/2017	House of Fara Incorporated	Moulure Alexandria Moulding Inc.	Manufacturer of mouldings, fireplace mantles, window and door trim sets, chair rails, planking, accents and other accessories				
11/20/2017	Mountain States Steel, Inc.	Schuff Steel Company, Inc.	Fabricates, supplies, and installs custom fabricated structural steel products				
11/20/2017	Worthington Armstrong Venture, Select Divisions	Knauf International Gmbh	Manufacturer of commercial and residential ceiling, wall and suspension system solutions				
11/14/2017	Ceilings Plus	USG Corporation	Manufactures metal and wooden ceilings and wall products				
11/8/2017	Hargis Industries, Lp	The Hillman Group, Inc.	Manufacturer and distributor of specialty fasteners				
11/7/2017	IPS Corporation	Encapsys, LLC	Manufactures solvent cements, primers, sealants, and components and supplies				

Source: S&P Capital IQ

NOTABLE M&A TRANSACTIONS

Announced					
Date	Target	Acquirer	Target Business Description		
11/6/2017	American Builders Supply, Inc.	Kodiak Building Partners	Manufactures, distributes and installs: millwork, windows, components and lumber		
11/6/2017	Ortiz Engineered Products, Inc., Certain Assets	Insteel Industries, Inc.	Manufactures wire reinforcing products		
11/6/2017	XL Brands	Bostik SA	Manufacturer of floor covering adhesives		
10/31/2017	Ductilcrete Technologies, LLC	GCP Applied Technologies Inc.	Manufacturer of concrete flooring systems		
10/31/2017	Fenetres MQ Inc.	Andersen Corporation	Design, manufacture, marketing, and export of custom-sized windows		
10/29/2017	Paroc Group Oy	Owens Corning	Manufactures and sells mineral wool insulation products		
10/24/2017	American Insulated Glass, LLC	AV Capital Holdings; ORIX Mezzanine & Private Equity	Manufactures, fabricates, and distributes glass products		
10/19/2017	Delta T LLC	Lindsay Goldberg	Designs, engineers, and manufactures overhead and directional fans		
10/13/2017	Bonelli Enterprises	Pella Corporation	Manufactures aluminum windows and doors		
10/11/2017	Domoferm International GmbH	JELD-WEN Holding, inc.	Manufactures and distributes door and frame systems		
10/5/2017	LaPolla Industries, Inc.	Icynene Inc.	Manufacturer and distributor of spray foam polyurethane foam insulation		
10/3/2017	Brothers' Fence Company Inc.	U.S. Fence Solutions Company	Provides residential fence installation services		
10/3/2017	Ideal Fencing Corp.	U.S. Fence Solutions Company	Provides fencing and guardrail installation services		
10/2/2017	A&F Wood Products, Inc.	Masonite International Corporation	Manufactures wood doors, hollow metal doors, custom metal frames, wood frames, and hardware		
10/2/2017	Accella Performance Materials Inc.	Carlisle Companies Incorporated	Manufactures custom formulated polyurethane systems and recycled rubber products		
10/2/2017	QuickDrain USA, Certain Assets	Oatey Company, Inc.	Manufactures systems for showers and wet areas		

Source: S&P Capital IQ

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6th Most Active Middle-Market Advisor

1,200 \$55B 60

DEALS IN 2017

TRANSACTION VALUE COUNTRIES





BDO Capital offers a sophisticated array of investment banking services and global capabilities combined with senior level attention, responsiveness and quality service to best serve the middle market. BDO's global M&A and Transaction Services teams completed 1,200 deals in 2017, generating a combined value of USD \$54.5 billion. This represents a growth in value of 53 percent when compared to the results in 2016. BDO also performed strongly in the 2017 financial advisor league tables:

- Top 5 mid-market M&A advisor in the world Global small cap table (deals up to USD \$50M), Thomson Reuters rankings
- Top 10 mid-market M&A advisor in the world (Deals up to USD \$500M), Thomson Reuters rankings
- Private Equity 5th most active advisor for PE deals in the world and in Europe PitchBook 2017 Global League Tables
- Buyout deals 6th most active advisor globally for buyout deals
 PitchBook 2017 Global League Tables

MERGERS & ACQUISITIONS

- Private Company Sales
- Public Company Sales
- Corporate Divestitures
- Leveraged Recapitalizations / Private Equity
- Buy-Side Advisory

CAPITAL RAISING

- Equity
- Subordinated Debt / Mezzanine
- Senior Debt
- Private Investments in Public Equity

BOARD ADVISORY

- Fairness Opinions
- Valuation Advisory
- Share Repurchase Programs
- Dividend Recapitalizations

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