

Building Products and Materials

Summer 2018





Highlights

Housing activity was up in the first half of 2018 but is beginning to show signs of a potential slowdown.

Despite a strong job market and demand from maturing millennials, existing home sales, which make up about 90% of all home sales, fell for the third straight month in June because of high home prices, rising mortgage rates and low supply.

Both housing starts and permits were up in the first half of 2018; however, the month of June displayed a 3.5% year-over-year ("y-o-y") decline in housing starts.

Single-family starts were up 8.1% in the first half of 2018, while multifamily starts were up 7.3%.

Remodeling activity remains strong likely because of the upward trajectory of home prices, as well as strong consumer confidence and a robust economy with steady job growth.

Strong demand and low inventory levels continue to drive home prices higher in all markets, especially in western cities such as Denver, San Francisco and Seattle.

The stock performance of four subsectors of the industry have underperformed the S&P 500 Index over the past 12 months, while two subsectors (Building Products Distributors and Lumber and Wood Products Manufacturers) have outperformed.

1H 2018 BY THE NUMBERS



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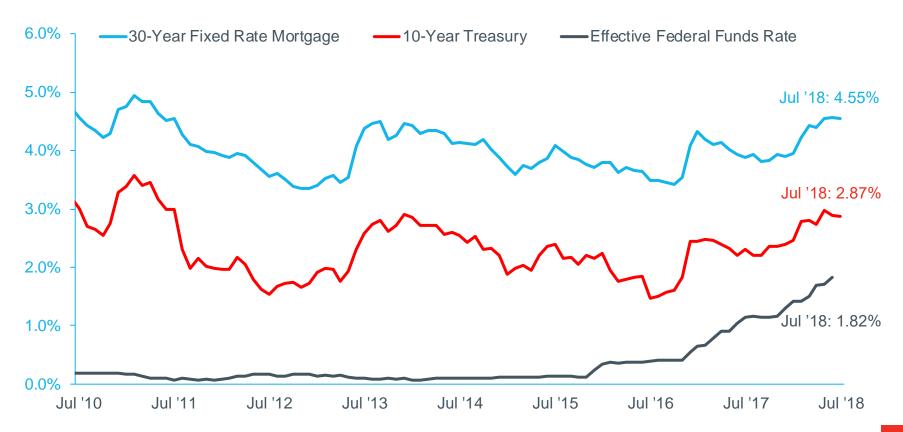
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Housing Indicators.

After dipping to 3.90% in December 2017, the 30-year mortgage rate increased steadily during the first half of 2018 and has remained at or above 4.50% since May. Mortgage rates and the yield on the 10-year Treasury have moved in tandem, and both have been affected by the increase in the federal funds rate. Despite the rise in mortgage rates, refinancing activity was up 1.84% in the first half of 2018 as compared to the second half of 2017.

Key Interest Rates

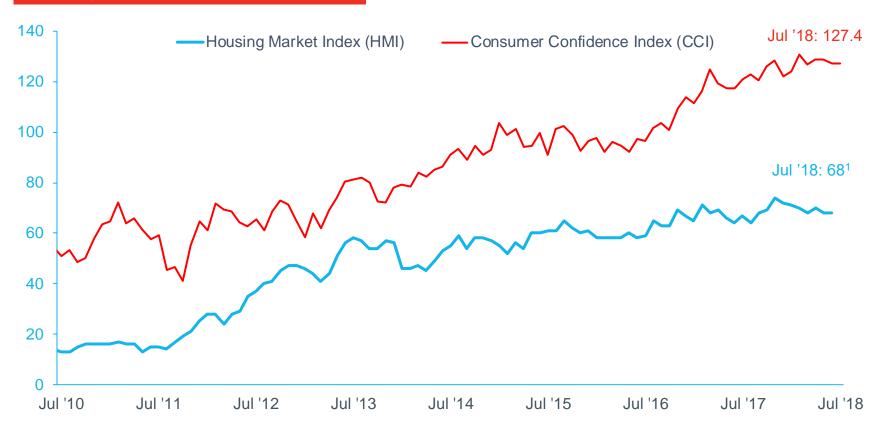


Housing Indicators..

In May 2018, the Consumer Confidence Index (CCI) climbed to its highest level since 2001 before declining slightly to 127.4 in July. Despite the slight drop, the July CCI is up 5.2% from a year ago. Confidence has soared because of low unemployment, rising wages and high stock prices.

The Housing Market Index (HMI), a measure of builder confidence, increased to 68 in July 2018, up from 64 a year ago. Builder's confidence has remained strong for over four years. The HMI has been above 50 for 49 consecutive months, indicating that builders are optimistic about the future of the housing market.

Key Housing Indicators



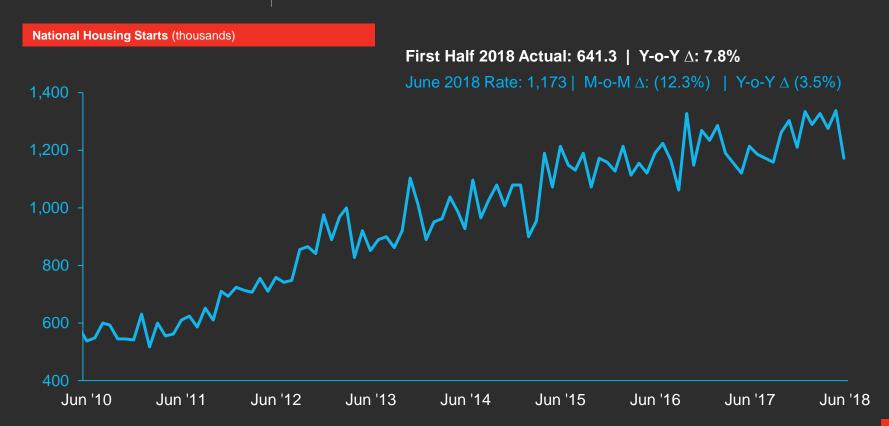


Housing Starts Continue on an Upward Trend ••

Housing starts continued to rise in the first half of 2018, albeit at a slower pace than 2017. Housing starts increased by 7.8% in the first half of 2018 and have remained above the million mark for 39 consecutive months.

While starts were up during the first half of the year, they were down 12.3% in June compared to May and down 3.5% from the same period a year ago. The drop in activity is due to a continuation of labor and land shortages throughout the country.

Single-family starts were up 8.1% in the first half of 2018 compared to multi-family starts, which were up 7.3%.

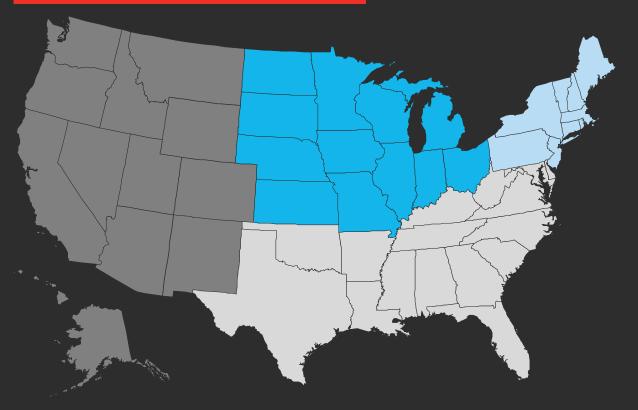




Housing Starts Continue on an Upward Trend ...

In the first half of 2018, the West was the strongest performer, with a 17.7% increase in housing starts, with single-family starts growing by 17.2% and multi-family starts growing by 18.7%. Housing starts in the South also increased in the first half of 2018, recording a 7.8% increase from the previous year. Housing starts in both the Northeast and Midwest decreased in the first half of 2018 compared to the previous year.

Regional Housing Starts (thousands)



Northeast Region

1H 2018 Housing Starts: 52.3 Y-o-Y Δ: (2.8%)

Midwest Region

1H 2018 Housing Starts: 83.3 Y-o-Y Δ : (2.9%)

West Region

1H 2018 Housing Starts: 179.8 Y-o-Y Δ: 17.7%

■ South Region

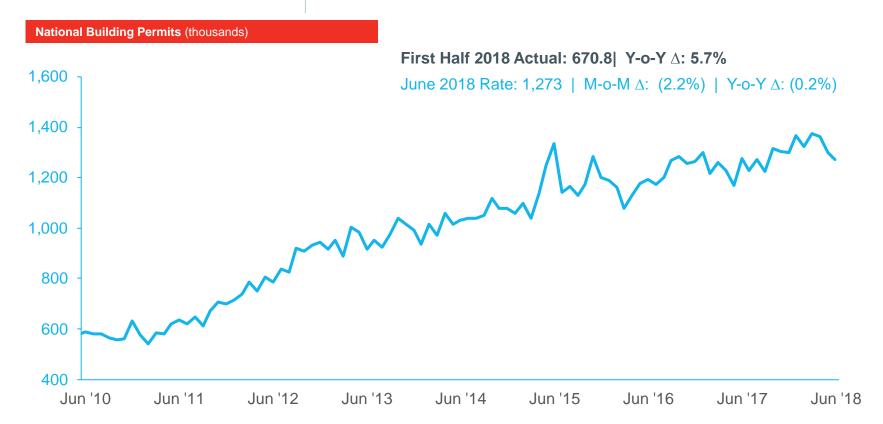
1H 2018 Housing Starts: 326.0 Y-o-Y Δ: 7.8%

Building Permits Keep Pace with Housing Starts ••

New applications for building permits, a bellwether for future construction, fell 2.2% month-over-month ("m-o-m") in June and were down 0.2% from the year prior to a seasonally adjusted annual rate of 1,273,000.

Building permits slightly outpaced housing starts in the first half of 2018. In total, an estimated 670,800 housing units were authorized by building permits in the first half of 2018, representing a 5.7% increase from the year prior, relative to 641,300 housing starts.

Permits for single-family homes rose 6.6% in the first half of 2018 compared to the year prior, and permits for multi-family homes increased 3.9%.





Building Permits Keep Pace with Housing Starts ...

The West and South regions witnessed strong building permit activity in the first half of 2018 and drove growth in the United States.

The West and South regions recorded 8.8% and 8.4% increases, respectively, while the Northeast and Midwest saw decreases of 1.2% and 4.2%, respectively.

Single-family permits led the growth in the West region with 13.1% growth in the first half of 2018, while multi-family permits drove growth in the South at 12.4%.

Regional Building Permits (thousands)



Northeast Region

1H 2018 Building Permits: 59.8 Y-o-Y Δ: (1.2%)

Midwest Region

1H 2018 Building Permits: 91.0 Y-o-Y ∆: (4.2%)

West Region

1H 2018 Building Permits: 178.8 Y-o-Y **\Delta**: 8.8%

South Region

1H 2018 Building Permits: 341.2 Y-o-Y ∆: 8.4%

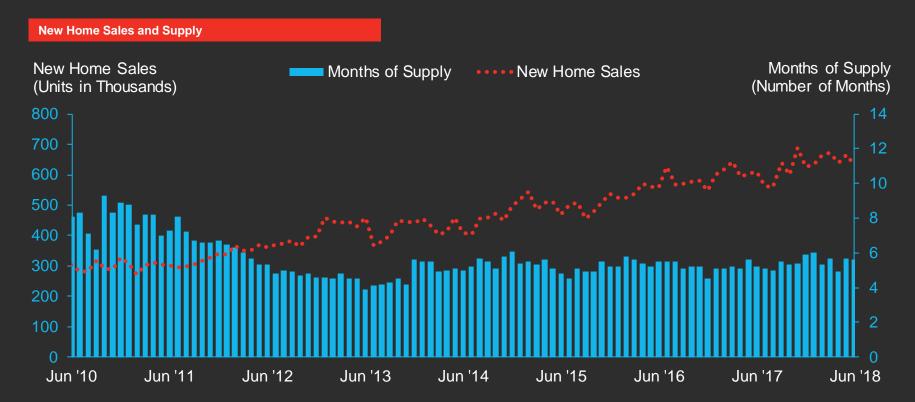
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New and Existing Home Sales Remain Strong.

An estimated 349,000 new homes were sold in the first half of 2018, representing a 6.9% increase from the same period a year ago. The increase was driven by faster household formations and millennials beginning to enter the housing market.

The seasonally adjusted annual rate of new home sales in June was 631,000, which was 3.4% higher and 5.3% lower than June 2017 and May 2018, respectively.

The seasonally adjusted estimate of new homes for sale at the end of June was 301,000, up 10.3% from a year ago. The supply is 5.7 months at the current sales rate, which is up from the 5.4 months of supply from a year ago.



New and Existing Home Sales Remain Strong.

Existing home sales reached a seasonally adjusted annual rate of 5,380,000 in June 2018. In June, sales decreased by 0.6% from the prior month because of low inventory levels, rising prices and higher mortgage rates. June marks the third straight month of month-over-month declines in existing home sales, signaling that buyer fatigue is building despite a strong jobs market and demand from maturing millennials.

The inventory of existing homes increased to 4.3 months in June, up 4.9% from May 2018 and flat relative to June 2017.

Existing Home Sales and Supply Existing Home Sales Months of Supply Months of Supply Existing Home Sales (Number of Months) (Units in Thousands) 8,000 7.000 10 6.000 5.000 4.000 3.000 Jun '10 Jun '11 Jun '14 Jun '18 Jun '12 Jun '13 Jun '15 Jun '16 Jun '17

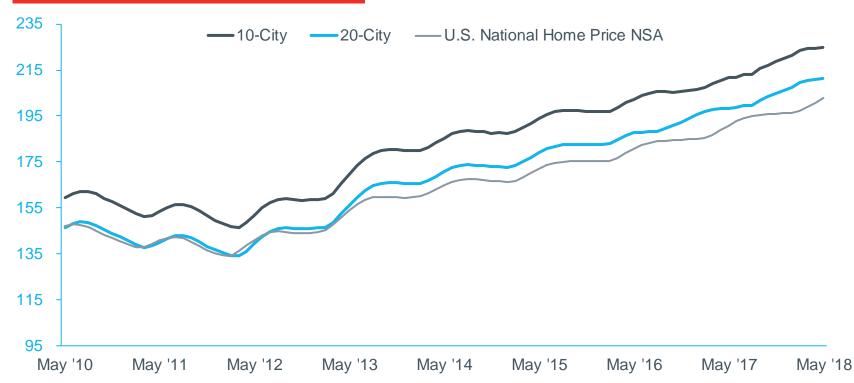
U.S. Home Prices Continue to Hit Record

Highs.

The 10-city home price index was up 6.1% in May relative to a year ago, while the 20-city home price index was up 6.5%.

May results reflect a steady upward trend in home prices that started at the beginning of 2012. Increases in both indexes have been boosted by a shortage of existing homes for sale and increasing housing demand from millennials.

S&P CoreLogic/Case-Shiller Home Price Indexes*





U.S. Home **Prices Continue** to Hit Record Highs...

Seattle, Las Vegas and San Francisco experienced the biggest year-over-year appreciation in home prices, with increases of 13.6%, 12.6% and 10.9%, respectively.

The cities reporting the largest month-over-month increases in May were Seattle, Cleveland, Chicago and Las Vegas with increases of 2.2%, 1.4%, 1.3% and 1.3% respectively.

While New York, Chicago and Washington, D.C. had the weakest performance of all the cities, all three of these cities showed year-over-year price increases. No metropolitan area experienced a year-over-year price decrease.

Regional Home Price Indexes*

| May 2018 – Composite 10 | | | | | | | | |
|-------------------------|-----------|-----------|--|--|--|--|--|--|
| Metropolitan Area | M-o-M % Δ | Y-o-Y % ∆ | | | | | | |
| Las Vegas | 1.3% | 12.6% | | | | | | |
| San Francisco | 1.1% | 10.9% | | | | | | |
| Denver | 0.9% | 8.5% | | | | | | |
| Los Angeles | 0.5% | 7.6% | | | | | | |
| San Diego | 0.6% | 7.3% | | | | | | |
| Boston | 0.8% | 7.0% | | | | | | |
| Miami | 0.8% | 5.0% | | | | | | |
| New York | (0.1%) | 4.2% | | | | | | |
| Chicago | 1.3% | 3.3% | | | | | | |
| Washington, D.C. | 0.6% | 3.1% | | | | | | |
| Composite-10 | 0.1% | 6.1% | | | | | | |

| May 2018 – | Composite 20 |
|------------|--------------|
|------------|--------------|

| | May 2010 - Composite 20 | |
|-------------------|-------------------------|-----------|
| Metropolitan Area | M-o-M % ∆ | Y-o-Y % ∆ |
| Seattle | 2.2% | 13.6% |
| Las Vegas | 1.3% | 12.6% |
| San Francisco | 1.1% | 10.9% |
| Denver | 0.9% | 8.5% |
| Los Angeles | 0.5% | 7.6% |
| San Diego | 0.6% | 7.3% |
| Phoenix | 1.1% | 7.3% |
| Detroit | 0.8% | 7.1% |
| Boston | 0.8% | 7.0% |
| Tampa | 0.5% | 6.6% |
| Minneapolis | 1.1% | 6.4% |
| Charlotte | 0.8% | 6.0% |
| Portland | 1.3% | 6.0% |
| Atlanta | 1.0% | 5.6% |
| Dallas | 0.6% | 5.6% |
| Cleveland | 1.4% | 5.0% |
| Miami | 0.8% | 5.0% |
| New York | (0.1%) | 4.2% |
| Chicago | 1.3% | 3.3% |
| Washington, D.C. | 0.6% | 3.1% |
| Composite-20 | 0.2% | 6.5% |



Busy Remodeling Activity Continues in 2018

Based on the Leading Indicator of Remodeling Activity (LIRA),* home improvement spending increased 7.1% in Q2 2018 and is expected to increase 7.4% in Q3 2018, according to the Joint Center for Housing Studies of Harvard University.

The expectation for another strong year for home improvements is likely due to the upward trajectory of home prices, strong consumer confidence and a robust economy with steady job growth and rising wages.

Leading Indicator of Remodeling Activity (LIRA)*



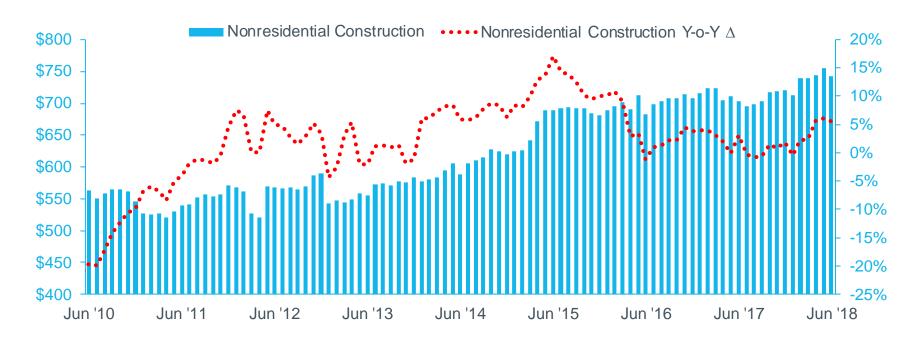


Nonresidential Construction Picks Up

In the first half of 2018, nonresidential construction spending was \$350.2 billion, a 2.9% increase over the same time period a year ago. In June, seasonally adjusted nonresidential construction spending was up 5.6% over the same month a year ago.

The uptick in the first half of 2018 was driven by heavy spending in the lodging, public safety and transportation sectors, all of which posted above 10% growth when compared to the same period a year ago.

Nonresidential Construction Put in Place (\$ in billions)

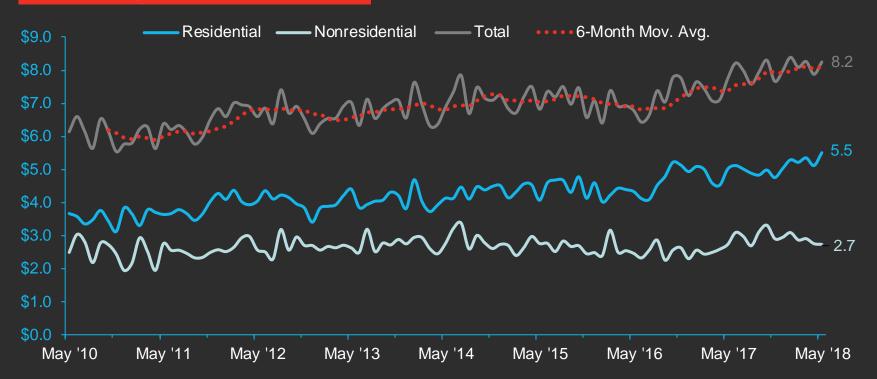


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Canadian Building Market – Permits.

With an increase in seasonally adjusted new building permit applications in May 2018, the 6-month moving average in the number of building permits continues to rise (an average of 8.1 billion). This increase is predominately due to higher residential building permits over the past year as supply continues to struggle meeting the increasing demand in metropolitan areas such as Toronto and Vancouver. Nonresidential building permits saw a mild cool down, with permits for industrial, institutional and government buildings lower. Commercial building permits dipped during Q1 2018, but recovered later during the year, growing 12.9% over the same period last year.

Authorized Building Permits (C\$ in billions)

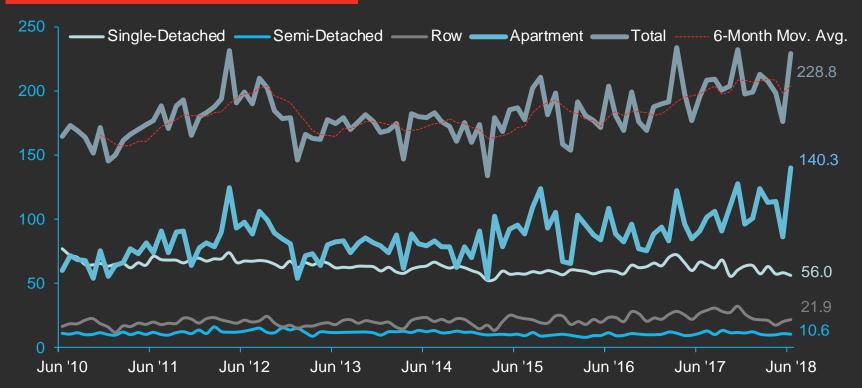


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Canadian Building Market – Starts ••

Canadian housing starts have increased by 17.0% year-over-year, driven by a strong increase of 29.9% in the month of June 2018. The housing market experienced a mild cooling in Q1 2018, as the market adjusted to an increasing rate environment but has since recovered. Single-detached housing starts continued its decline, dropping 15.8% year over year, possibly because detached houses are becoming less affordable for first-time homeowners and new families. Row and semi-detached housing also saw declines of 18.6% and 6.6%, respectively. Apartment building starts increased by a whopping 54.6% year over year, effectively offsetting declines in all other structure types.

Housing Starts (Units in thousands)



Canadian Housing Market – Existing **Prices**

After years of double-digit percentage price increases, the impact of the tapering policies is evident. Tougher mortgage stress-testing rules implemented by Canadian regulator, the Office of the Superintendent of Financial Institutions (OSFI) and a rising interest rate environment saw the Multiple Listing Service (MLS) HPI drop to essentially flat growth compared to the previous year.

MLS HPI Benchmark Price (y-o-y % change)



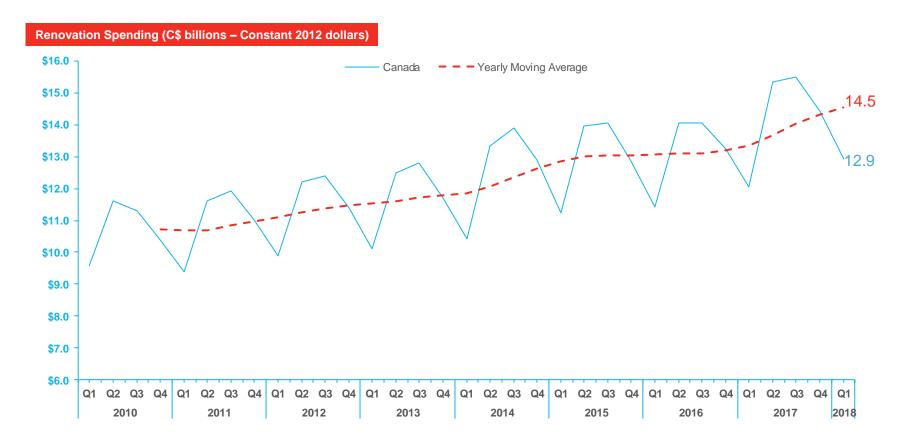
Canadian Housing Market – Existing Home Sales ..

Sales activity in the existing housing market saw a significant decrease during the first half of 2018, dropping as much as 17.7%, as the market adjusted to OSFl's new stern "Guideline B-20 - Residential Mortgage Underwriting Practices and Procedures." The recent changes to the mortgage rules may make it harder to qualify for uninsured mortgages, driving demand for lower priced-homes and reducing the number of qualified buyers for more expensive properties.



Canadian Renovation **Activity**

Spending on renovations in Q1 2018 increased by 7.1% year over year, following the general trend, which has seen an increase in renovation spending over the past five years. As housing market prices continue to increase, more homeowners are likely to turn toward renovations of their current houses instead of purchasing in the current market conditions.





Bifurcation in Public Valuations

Over the past 12 months, there has been a bifurcation in public valuations as some sectors have either outpaced or kept pace with the S&P 500, while others have underperformed. The index of Building Products Distributors posted the largest gain, followed by the index of Lumber and Wood Products Manufacturers. Both indexes are benefiting from the strong housing market, while Lumber and Wood Products Manufacturers are also benefiting from record-high lumber prices.

Equity Market Performance





Public Companies' Trading Statistics •••

| (\$ in millions except share price data) | Stock | | | | | Ent | erprise Value | as a Multiple | of | | LT | M |
|--|---------------|------------|----------|------------|-------|---------|---------------|---------------|--------|-------|--------|---------|
| | Price | % of | Market | Enterprise | | Revenue | | | EBITDA | | EBITDA | Revenue |
| Company | 8/7/18 | 52-Wk High | Value | Value | LTM | 2018P | 2019P | LTM | 2018P | 2019P | Margin | Growth |
| Building Products Manufacturers Large | e Cap. (EV>\$ | 3.0B) | | | | | | | | | | |
| Compagnie de Saint-Gobain S.A. | \$43.34 | 72.8% | \$23,772 | \$34,988 | 0.73x | 0.72x | 0.69x | 7.3x | 6.9x | 6.4x | 10.0% | 3.1% |
| Masco Corporation | 39.71 | 85.5% | 12,210 | 14,958 | 1.87x | 1.77x | 1.67x | 11.7x | 10.4x | 9.5x | 16.0% | 7.2% |
| Owens Corning | 61.79 | 64.0% | 6,853 | 10,386 | 1.52x | 1.44x | 1.36x | 9.8x | 7.5x | 6.7x | 15.5% | 14.2% |
| Lennox International Inc. | 219.90 | 98.6% | 8,852 | 10,165 | 2.57x | 2.58x | 2.46x | 17.3x | 15.9x | 14.6x | 14.8% | 4.0% |
| Fortune Brands Home & Security, Inc. | 57.25 | 77.8% | 8,154 | 9,953 | 1.84x | 1.78x | 1.69x | 11.7x | 10.9x | 9.9x | 15.7% | 5.5% |
| James Hardie Industries plc | 17.06 | 95.0% | 7,532 | 8,114 | 3.95x | 3.30x | 2.92x | 16.6x | 14.0x | 12.2x | 23.8% | 6.9% |
| USG Corporation | 43.25 | 99.7% | 6,034 | 6,808 | 2.07x | 1.99x | 1.89x | 14.4x | 11.3x | 9.8x | 14.3% | 6.9% |
| Acuity Brands, Inc. | 136.89 | 68.8% | 5,442 | 5,706 | 1.60x | 1.55x | 1.51x | 10.1x | 9.4x | 8.5x | 15.9% | 3.0% |
| Trex Company, Inc. | 79.22 | 98.8% | 4,638 | 4,644 | 7.25x | 6.73x | 6.14x | 25.8x | 23.3x | 20.6x | 28.1% | 27.0% |
| Armstrong World Industries, Inc. | 69.70 | 98.0% | 3,601 | 4,307 | 4.66x | 4.50x | 4.22x | 16.7x | 12.2x | 11.1x | 27.9% | 35.7% |
| Median | | 90.2% | | | 1.97x | 1.89x | 1.79x | 13.1x | 11.1x | 9.9x | 15.8% | 6.9% |
| Mean | | 85.9% | | | 2.81x | 2.63x | 2.46x | 14.1x | 12.2x | 10.9x | 18.2% | 11.3% |
| Building Products Manufacturers Mid. | Cap. (EV<\$3. | 0B) | | | | | | | | | | |
| Simpson Manufacturing Co., Inc. | \$73.55 | 98.2% | \$3,407 | \$3,255 | 3.11x | 2.94x | 2.72x | 16.1x | 14.0x | 12.2x | 19.3% | 14.5% |
| Masonite International Corporation | 66.65 | 87.8% | 1,839 | 2,440 | 1.18x | 1.12x | 1.06x | 10.0x | 8.5x | 7.6x | 11.9% | 4.7% |
| American Woodmark Corporation | 85.40 | 57.5% | 1,498 | 2,226 | 1.78x | 1.33x | 1.26x | 13.3x | 8.5x | 7.8x | 13.4% | 21.4% |
| Apogee Enterprises, Inc. | 49.84 | 93.8% | 1,409 | 1,600 | 1.15x | 1.11x | 1.05x | 9.4x | 8.8x | 7.7x | 12.2% | 22.1% |
| Gibraltar Industries, Inc. | 44.75 | 101.0% | 1,421 | 1,420 | 1.40x | 1.38x | 1.32x | 11.1x | 10.9x | 9.9x | 12.6% | 5.8% |
| NCI Building Systems, Inc. | 15.15 | 64.9% | 1,003 | 1,378 | 0.75x | 0.70x | 0.67x | 8.5x | 6.4x | 6.1x | 8.8% | 4.7% |
| Griffon Corporation | 17.65 | 72.0% | 749 | 1,817 | 0.98x | 0.89x | 0.83x | 12.7x | 10.5x | 9.4x | 7.7% | 67.1% |
| Quanex Building Products Corporation | 17.00 | 69.1% | 597 | 813 | 0.94x | 0.90x | NA | 8.7x | 7.9x | NA | 10.8% | (3.7%) |
| Median | | 79.9% | | | 1.17x | 1.11x | 1.06x | 10.5x | 8.7x | 7.8x | 12.0% | 10.2% |
| Mean | | 80.5% | | | 1.41x | 1.30x | 1.27x | 11.2x | 9.4x | 8.7x | 12.1% | 17.1% |



Public Companies' Trading Statistics •••

| (\$ in millions except share price data) | Stock | | | | | En | terprise Value | as a Multiple | of | | Lī | ГМ |
|--|---------|------------|----------|------------|-------|---------|----------------|---------------|--------|-------|--------|---------|
| | Price | % of | Market | Enterprise | | Revenue | | | EBITDA | | EBITDA | Revenue |
| Company | 8/7/18 | 52-Wk High | Value | Value | LTM | 2018P | 2019P | LTM | 2018P | 2019P | Margin | Growth |
| Building Products Distributors | | | | | | | | | | | | |
| Ferguson plc | \$79.05 | 96.7% | \$18,227 | \$19,520 | 0.88x | 0.93x | 0.88x | 11.4x | 11.3x | 10.4x | 7.7% | 34.0% |
| Pool Corporation | 160.49 | 98.5% | 6,480 | 7,092 | 2.45x | 2.36x | 2.19x | 22.1x | 20.3x | 18.3x | 11.1% | 8.5% |
| Watsco, Inc. | 172.53 | 89.4% | 5,924 | 6,269 | 1.41x | 1.37x | 1.31x | 16.4x | 15.2x | 14.3x | 8.6% | 3.5% |
| Beacon Roofing Supply, Inc. | 42.48 | 63.9% | 2,892 | 6,232 | 1.08x | 0.84x | 0.80x | 15.2x | 10.2x | 9.1x | 7.1% | 35.5% |
| Builders FirstSource, Inc. | 17.83 | 76.6% | 2,044 | 3,974 | 0.53x | 0.51x | 0.48x | 9.8x | 8.0x | 7.1x | 5.5% | 11.7% |
| BlueLinx Holdings Inc. | 33.08 | 71.3% | 305 | 747 | 0.41x | NA | NA | 24.4x | NA | NA | 1.7% | (0.6%) |
| CanWel Building Materials Group Ltd. | 5.02 | 87.1% | 390 | 671 | 0.69x | 0.64x | 0.62x | 11.6x | 10.5x | 9.9x | 6.0% | 22.9% |
| Hardwoods Distribution Inc. | 12.79 | 75.7% | 275 | 363 | 0.45x | 0.43x | 0.41x | 8.6x | 8.1x | 7.3x | 5.2% | 17.7% |
| Huttig Building Products, Inc. | 5.11 | 65.9% | 133 | 311 | 0.39x | 0.38x | 0.35x | NA | NA | NA | 0.5% | 9.4% |
| Taiga Building Products Ltd. | 1.31 | 97.7% | 153 | 271 | 0.23x | NA | NA | 6.2x | NA | NA | 3.7% | 0.0% |
| Goodfellow Inc. | 5.45 | 81.1% | 46 | 109 | 0.28x | NA | NA | 12.2x | NA | NA | 2.3% | (7.8%) |
| Median | | 81.1% | | | 0.53x | 0.74x | 0.71x | 11.9x | 10.5x | 9.9x | 5.5% | 9.4% |
| Mean | | 82.2% | | | 0.80x | 0.93x | 0.88x | 13.8x | 11.9x | 10.9x | 5.4% | 12.2% |
| Building Materials Manufacturers | | | | | | | | | | | | |
| LafargeHolcim Ltd | \$50.79 | 84.2% | \$30,334 | \$49,710 | 1.86x | 1.81x | 1.73x | NA | 8.2x | 7.6x | 4.8% | 0.0% |
| CRH plc | 33.40 | 87.1% | 27,785 | 35,141 | 1.16x | 1.12x | 1.06x | 9.3x | 8.6x | 7.7x | 12.5% | 1.7% |
| HeidelbergCement AG | 83.66 | 75.2% | 16,599 | 29,718 | 1.47x | 1.45x | 1.39x | 9.3x | 7.9x | 7.3x | 15.8% | 0.9% |
| CEMEX, S.A.B. de C.V. | 0.75 | 78.9% | 11,277 | 22,701 | 1.67x | 1.57x | 1.50x | 10.1x | 8.5x | 7.8x | 16.5% | 3.2% |
| Vulcan Materials Company | 115.82 | 82.0% | 15,319 | 18,401 | 4.46x | 4.17x | 3.81x | 18.3x | 15.7x | 13.3x | 24.3% | 11.6% |
| Martin Marietta Materials, Inc. | 208.54 | 86.4% | 13,141 | 16,338 | 4.28x | 3.69x | 3.33x | 15.7x | 13.3x | 11.7x | 27.3% | 2.6% |
| Eagle Materials Inc. | 100.35 | 81.9% | 4,795 | 5,432 | 3.84x | 3.66x | 3.36x | 12.9x | 10.6x | 9.9x | 29.7% | 10.5% |
| Titan Cement Company S.A. | 23.70 | 80.7% | 1,860 | 2,803 | 1.66x | 1.61x | 1.47x | 9.4x | 8.6x | 7.4x | 17.7% | (7.4%) |
| U.S. Concrete, Inc. | 49.60 | 57.4% | 834 | 1,585 | 1.11x | 1.03x | 0.95x | 9.7x | 7.0x | 6.0x | 11.5% | 10.9% |
| Median | | 81.9% | | | 1.67x | 1.61x | 1.50x | 9.9x | 8.6x | 7.7x | 16.5% | 2.6% |
| Mean | | 79.3% | | | 2.39x | 2.23x | 2.07x | 11.8x | 9.8x | 8.7x | 17.8% | 3.8% |



Public Companies' Trading Statistics

| (\$ in millions except share price dat | a) Stock | | | | | Ent | erprise Value | as a Multiple | | | LT | M |
|--|------------|------------|----------|------------|-------|---------|---------------|---------------|--------|-------|--------|---------|
| | Price | % of | Market | Enterprise | | Revenue | | | EBITDA | | EBITDA | Revenue |
| Company | 8/7/18 | 52-Wk High | Value | Value | LTM | 2018P | 2019P | LTM | 2018P | 2019P | Margin | Growth |
| Homebuilders | | | | | | | | | | | | |
| Lennar Corporation | \$53.00 | 73.4% | \$17,112 | \$27,529 | 1.78x | 1.32x | 1.15x | 17.8x | 10.4x | 7.7x | 10.0% | 31.1% |
| D.R. Horton, Inc. | 44.29 | 83.1% | 16,700 | 18,831 | 1.20x | 1.14x | 1.02x | 9.4x | 8.2x | 7.0x | 12.8% | 15.0% |
| PulteGroup, Inc. | 29.36 | 83.4% | 8,339 | 11,230 | 1.19x | 1.12x | 1.04x | 7.9x | 7.0x | 6.7x | 15.0% | 17.0% |
| NVR, Inc. | 2,747.02 | 74.2% | 9,964 | 10,142 | 1.49x | 1.42x | 1.29x | 10.3x | 10.0x | 9.0x | 14.4% | 11.4% |
| Toll Brothers, Inc. | 35.92 | 68.1% | 5,455 | 8,599 | 1.36x | 1.20x | 1.08x | 11.9x | 7.6x | 6.7x | 11.5% | 16.6% |
| KB Home | 24.27 | 62.6% | 2,128 | 3,812 | 0.84x | 0.81x | 0.76x | 10.7x | 7.2x | 6.6x | 7.9% | 15.1% |
| Meritage Homes Corporation | 43.20 | 77.8% | 1,756 | 2,898 | 0.86x | 0.80x | 0.77x | 10.1x | 8.3x | 8.0x | 8.4% | 8.5% |
| M.D.C. Holdings, Inc. | 30.80 | 87.5% | 1,738 | 2,443 | 0.90x | 0.82x | 0.76x | 10.6x | 6.7x | 6.8x | 8.5% | 5.6% |
| Hovnanian Enterprises, Inc. | 1.62 | 47.5% | 242 | 1,796 | 0.80x | 0.90x | NA | NA | 11.4x | NA | 1.4% | (16.0%) |
| Beazer Homes USA, Inc. | 13.17 | 56.7% | 424 | 1,614 | 0.80x | 0.76x | NA | 17.6x | 15.7x | NA | 4.6% | 7.3% |
| M/I Homes, Inc. | 26.31 | 70.3% | 752 | 1,512 | 0.72x | 0.66x | 0.62x | 9.0x | NA | NA | 8.0% | 14.5% |
| Med | dian | 73.4% | | | 0.90x | 0.90x | 1.02x | 10.5x | 8.3x | 6.9x | 8.5% | 14.5% |
| M | lean | 71.3% | | | 1.09x | 0.99x | 0.94x | 11.5x | 9.2x | 7.3x | 9.3% | 11.4% |
| Lumber and Wood Products Man | ufacturers | | | | | | | | | | | |
| Weyerhaeuser Company | \$34.26 | 89.2% | \$25,958 | \$31,492 | 4.13x | 4.04x | 3.98x | 14.5x | 13.6x | 13.4x | 28.5% | 11.9% |
| West Fraser Timber Co. Ltd. | 61.74 | 82.0% | 4,606 | 4,887 | 1.10x | 0.99x | 1.03x | 4.5x | 4.0x | 4.7x | 24.5% | 22.0% |
| Norbord Inc. | 38.14 | 84.3% | 3,307 | 3,560 | 1.45x | 1.42x | 1.44x | 4.2x | 4.5x | 5.4x | 34.3% | 26.8% |
| Louisiana-Pacific Corporation | 28.78 | 92.3% | 4,178 | 3,553 | 1.21x | 1.21x | 1.19x | 4.5x | 4.9x | 5.4x | 27.0% | 19.6% |
| Canfor Corporation | 20.85 | 79.7% | 2,681 | 2,799 | 0.72x | 0.68x | 0.69x | 3.5x | 3.4x | 3.8x | 20.7% | 15.4% |
| Universal Forest Products, Inc. | 36.79 | 93.0% | 2,267 | 2,551 | 0.59x | 0.56x | 0.53x | 10.3x | 9.5x | 8.5x | 5.8% | 19.6% |
| Boise Cascade Company | 44.00 | 89.2% | 1,711 | 1,958 | 0.40x | 0.38x | 0.37x | 7.0x | 6.8x | 7.0x | 5.7% | 19.7% |
| Me | dian | 89.2% | | | 1.10x | 0.99x | 1.03x | 4.5x | 4.9x | 5.4x | 24.5% | 19.6% |
| M | lean | 87.1% | | | 1.37x | 1.33x | 1.32x | 6.9x | 6.6x | 6.9x | 20.9% | 19.3% |



1H 2018 M&A Activity Remains Robust

M&A activity in the sector was strong in 1H 2018, with 123 completed transactions involving target companies headquartered in the United States or Canada. Activity in the first half of the year was up 16.0% from the second half of 2017, and up 57.7% from the same period a year ago.

The surge in activity was driven by an increase in willing sellers and the strong acquisition appetite of private equity firms and strategics, particularly because of the abundance of debt and equity capital, low interest rates and a favorable housing market outlook.

Building Products and Materials M&A Trends





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| Date | | | | |
|--------------|-------------------------------|----------------|---------------------------------|---|
| Announced | Target | Target Country | Acquiror | Target Business Description |
| Building Pro | oducts Distributors | | | |
| Jun-18 | Ellsworth Builders Supply | United States | Hammond Lumber Company | Sells hardware, lumber and home decor supplies to contractors and homeowners in Maine |
| Jun-18 | Circle Bolt & Nut Company | United States | Optimas OE Solutions Holding | Supplies fasteners, specialty hardware and value added services |
| Jun-18 | The E.T. Horn Company | United States | IMCD N.V. | Distributes specialty ingredients, chemicals and raw materials for use in various industries in North America |
| May-18 | MORSCO | United States | Reece Limited | Distributes plumbing, HVAC and pipe/valves/fittings equipment |
| May-18 | Flooring Solutions | United States | Lynx Equity Limited | Distributes flooring products |
| May-18 | NexGen Building Supply | United States | L&W Supply Corporation | Distributes building materials for interior and exterior residential and commercial projects |
| May-18 | All Integrated Solutions | United States | MSC Industrial Direct Co. | Supplies standard and specialty components and fasteners |
| May-18 | Tri-State Builder's Supply | United States | Beacon Roofing Supply | Distributes roofing, siding, windows, doors and related building products |
| Apr-18 | Dehco | United States | Patrick Industries | Distributes building products and components |
| Apr-18 | SRS Distribution | United States | Leonard Green & Partners | Distributes roofing products in the United States |
| Apr-18 | Guardian Building Products | United States | Pacific Avenue Capital Partners | Distributes specialty building products and materials |
| Apr-18 | WSB Titan | Canada | Gypsum Management & Supply | Distributes building supplies |
| Mar-18 | Fentress County Block Company | United States | Clark Family Concrete Holdings | Supplies construction and building products |
| Mar-18 | Cedar Creek Holdings | United States | BlueLinx Corporation | Distributes lumber and building materials |
| Mar-18 | American Roofing Supply | United States | SRS Distribution | Distributes residential and commercial roofing products and accessories |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|-------------------|---------------------------------|----------------|-----------------------------------|---|
| Building Pro | oducts Distributors (continued) | | | |
| Mar-18 | Klumb Lumber Company | United States | ECMD | Distributes lumber, building materials and specialty products |
| Mar-18 | Builder's Glass & Hardware | United States | Majestic Marble And Glass Company | Sells hardware and building products |
| Mar-18 | United Subcontractors | United States | TopBuild Corp. | Provides insulation, specialty and shell construction services |
| Feb-18 | Bedrock International | United States | Architectural Surfaces Group | Offers granite and marble stone countertops, tiles, sinks and faucets |
| Feb-18 | Production Tool Supply Company | United States | Berkshire Hathaway | Supplies industrial tools |
| Feb-18 | RM Supply | United States | Foundation Building Materials | Supplies building materials |
| Feb-18 | ArmCom Distributing Company | United States | Foundation Building Materials | Distributes ceiling products and other building products |
| Jan-18 | Snavely Forest Products | United States | Weekes Forest Products | Distributes lumber and building products |
| Jan-18 | Window Nation | United States | Cortec Group | Distributes building products, including windows, doors, gutter systems and accessories |
| Jan-18 | Atlantic Plywood Corporation | United States | Parksite | Distributes hardwood, plywood and panel products and solutions |
| Jan-18 | Brock-White Co. of Wisc. | United States | Construction Supply Holdings | Distributes construction materials |
| Jan-18 | A.H. Harris & Sons | United States | HD Supply Construction Supply | Distributes and sells construction supplies |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|-------------------|--|----------------|---|--|
| | | rarget Country | Acquiror | Target Dusiness Description |
| Building Pro | oducts Manufacturers | | | |
| Jun-18 | The ReWall Company | United States | Continuus Material Recovery | Uses recycled materials to manufacture building products |
| Jun-18 | Arizona Home Supply | United States | Westland Distributing Partners | Distributes equipment and parts for mobile homes |
| Jun-18 | The Maiman Company/Graham Manufacturing Corporation | United States | Masonite International Corporation | Provides premium and custom grade wood doors and door frames |
| Jun-18 | Drew Foam Companies | United States | Branford Castle Partners | Manufactures building and packaging materials |
| May-18 | Plasterform | Canada | Armstrong World Industries | Manufactures architectural cast ceilings, walls, facades, columns and moldings |
| May-18 | VERSATEX Building Products | United States | The AZEK Company | Manufactures and distributes PVC trim boards and other products |
| May-18 | Design Cabinets and Furniture | United States | Ninth Street Capital Partners | Designs new construction and remodels custom kitchens, bath cabinetry, entertainment centers, theaters and libraries |
| May-18 | Dasco Pro | United States | Vaughan & Bushnell Manufacturing Company | Produces chisels and punches |
| May-18 | Senneca Holdings | United States | Kohlberg & Company | Distributes doors, including traffic, corrosion resistant, strip, cold storage, fire and sliding doors |
| May-18 | Pioneer Industries | United States | ASSA ABLOY | Manufactures metal doors, window frames and wind resistant assemblies |
| May-18 | Metal Window Corp. | United States | Arcadia Incorporated | Manufactures unique, high-quality aluminum window and door products |
| May-18 | Corneookson | United States | Clopay Building Products Company | Manufactures rolling doors and grilles |
| Apr-18 | Johnson Level & Tool Mfg. Co. | United States | Hultafors Group | Manufactures measuring, marking, layout and hand tools |
| Apr-18 | TB Concept | Canada | Armacell | Manufactures and sells pipes |
| Apr-18 | Fortis Security Products | United States | BASE Equity Partners | Designs and manufactures physical security products |



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| Date | | | | |
|--------------|----------------------------------|----------------|------------------------------------|--|
| Announced | Target | Target Country | Acquiror | Target Business Description |
| Building Pro | oducts Manufacturers (continued) | | | |
| Apr-18 | Cadence | United States | Kohlberg & Company | Manufactures and supplies products, technologies and services |
| Apr-18 | Wasco Products | United States | VELUX America Inc. | Designs, manufactures and supplies standard and custom skylights |
| Mar-18 | USG Corporation | United States | Knauf KG | Sells building materials worldwide |
| Mar-18 | Thermo-Tech Windows and Doors | United States | Harvey Industries | Manufactures and markets vinyl windows and doors |
| Mar-18 | Nationwide Industries | United States | Harbour Group | Manufactures hardware products in the fence and gate, cable railing and patio markets |
| Mar-18 | RCR International | Canada | M-D Building Products | Manufactures weather-stripping products, insulation components, floor protection products and squeegees |
| Mar-18 | Ashland Products | United States | Amesbury Group Inc. | Manufactures residential window and door hardware |
| Mar-18 | Glasshouse | United States | United Subcontractors | Fabricates and installs architectural glass products |
| Mar-18 | Discount Drainage Supplies | United States | Foundation Investment Partners | Distributes concrete drainage products, corrugated steel pipes, sanitary sewers and other municipal supplies |
| Feb-18 | Ox Engineered Products | United States | Wind Point Partners | Manufactures structural sheathing and thermal insulation building products |
| Feb-18 | Chamberlain Security | United States | Rankin Industries Inc.; Broco Inc. | Manufactures security components |
| Feb-18 | Aurora Systems | United States | Allegion plc | Designs and manufactures sliding doors and interior storefront assemblies |
| Feb-18 | The Fletcher-Terry Company | United States | Capital Partners | Manufactures and sells substrate cutters |
| Feb-18 | Groupe Promax | Canada | Screenco Manufacturing | Manufactures windows and patio door screen products |
| Jan-18 | Atrium Corporation | United States | Clayton, Dubilier & Rice | Manufactures and sells residential aluminum and vinyl windows and doors |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|-------------------|---|----------------|---------------------------------|--|
| Building Pro | ducts Manufacturers (continued) | | | |
| Jan-18 | Ply Gem Holdings | United States | Clayton, Dubilier & Rice | Manufactures and sells residential and commercial building products |
| Jan-18 | Bravura Brass | United States | The Delaney Co. | Manufactures forged brass door hardware |
| Jan-18 | Residential Division of Lockheed Window Corp. | United States | Slocomb Windows and Doors | Manufactures windows and doors for residential use |
| Jan-18 | The Canvas Exchange | United States | Ohio Awning & Manufacturing Co. | Manufactures awnings |
| Jan-18 | Arizona Polymer Flooring | United States | ICP Construction | Manufactures flooring products and concrete coating systems |
| Jan-18 | Janus International Group | United States | Clearlake Capital Group | Designs, manufactures and installs steel roll-up doors and building components |
| Jan-18 | Energy Labs | United States | Vertiv Group Corporation | Manufactures air handling units, air cooled units, evaporative cooled rooftop DX units and energy recovery systems |
| Jan-18 | U-C Coatings Corporation | United States | High Road Capital Partners | Manufactures and supplies wood protection products |
| Jan-18 | ADO Products | United States | TopBuild Corp. | Manufactures and markets protective wear, insulation and ventilation products |
| Jan-18 | The Group Legacy | United States | Bohle America | Designs and manufactures hardware and accessories for kitchen and bathroom |
| Jan-18 | Mercury Plastics | United States | Masco Corporation | Manufactures custom thermoplastic extrusions, extruded plastic profiles and specialized fabrications |
| Jan-18 | Courion Industries | United States | GAL Manufacturing Company | Manufactures freight door systems, cartlift systems and replacement parts |
| Jan-18 | Technical Glass Products | United States | Allegion plc | Manufactures advanced fire-rated entrance, aluminum fire flames and wall systems |



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| Date | | | | |
|------------|---|----------------|---------------------------|---|
| Announced | Target | Target Country | Acquiror | Target Business Description |
| Lumber and | Wood Manufacturers | | | |
| May-18 | Suwannee Lumber Holding Company/Caddo River Forest Products | United States | Conifex Timber | Manufactures softwood lumber and specialty products |
| Apr-18 | Spinner Wood Products | United States | Universal Forest Products | Manufactures and distributes wooden bins and pallets |
| Apr-18 | Cox Industries | United States | Koppers | Manufactures utility poles for cooperative and municipal utility companies |
| Mar-18 | Alberta Truebeam | Canada | Atlas Engineered Products | Produces engineered wood products |
| Mar-18 | Certain Assets of Langdale Forest Products Co. | United States | Cox Industries | Manufactures wood utility poles |
| Feb-18 | American Building Supply | United States | JELD-WEN Holding | Manufactures door, millwork and hardware products |
| Feb-18 | Highwood Trusses | Canada | Atlas Engineered Products | Manufactures engineered wood products, such as trusses, floor systems and beams |
| Jan-18 | Alta Forest Products | United States | ITOCHU International | Manufactures wood fence boards |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|----------------------------------|---|----------------|----------------------------------|---|
| Building Materials Manufacturers | | | | |
| Jun-18 | Granite Express | United States | Pioneer Sand Company | Owns and operates quarries |
| Jun-18 | Dellinger Precast | United States | Eastern Vault Company | Manufactures precast concrete products |
| Jun-18 | Ready Mix Concrete Operations of Grupo Cementos de Chihuahua | United States | CRH plc | Provides ready-mix products |
| Jun-18 | Piqua Concrete Co. | United States | Smyrna Ready Mix | Provides ready-mix concrete products |
| May-18 | Kitsap Reclamation and Materials | United States | ACG Materials | Operates a basalt quarry and offers mining and processing of aggregate products |
| May-18 | Mark Twain Redi-Mix | United States | Eastern Missouri Concrete | Operates as a concrete contractor company |
| May-18 | Richards Paving | United States | Advanced Pavement Group Corp. | Provides asphalt and concrete paving contractor services |
| May-18 | U.S. Concrete & Quarries Business of Boral Limited | United States | Brannan Sand and Gravel Company | Manufactures concrete |
| May-18 | Superior Ready Mix | United States | Summit Materials | Offers ready-mix concrete |
| May-18 | Midwest Minerals | United States | Cornejo & Sons | Provides crushed limestone aggregates and agricultural lime |
| May-18 | Day Concrete & Block Co. | United States | Summit Materials | Manufactures ready-mix concrete, concrete blocks, sack cement and concrete waste material |
| May-18 | FlyAsh Beneficiation and Mineral Grinding Technologies of SCB International | United States | Charah Solutions | Operates a concrete production business |
| Apr-18 | Werthan | United States | Sims-Lohman | Operates as a supplier of natural stones, engineered stones, solid surfaces and tiles |
| Apr-18 | Mintek Resources | United States | O-N Minerals (Chemstone) Company | Manufactures, processes, sells and distributes products made up of quicklime and cement |
| Apr-18 | Teevin & Fischer Quarry | United States | Knife River Corporation | Produces and supplies gravel and rocks |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|-------------------|-----------------------------------|----------------|-------------------------------|--|
| Building Ma | terials Manufacturers (continued) | | | |
| Apr-18 | Southern Athletic Fields | United States | PROFILE Products | Manufactures athletic field maintenance products, such as chalker, clay bricks and conditioner |
| Mar-18 | Golden Spread Redi-Mix | United States | U.S. Concrete | Operates ready-mix concrete plants |
| Mar-18 | Block USA | United States | CRH plc | Produces and distributes grey concrete masonry and architectural color units |
| Mar-18 | Suwannee American Cement Co. | United States | CRH plc | Offers cement products |
| Feb-18 | Kelly Limestone | United States | ACG Materials | Manufactures prill and pelletized limestone, gypsum and dolomite products |
| Feb-18 | Mertens Construction Company | United States | Summit Materials | Manufactures aggregates, limestone, road rocks and other construction materials |
| Feb-18 | Metro Ready-Mix | United States | Summit Materials | Processes and markets concrete |
| Feb-18 | Lehigh White Cement Company | United States | CEMEX; Aalborg Cement Company | Produces, imports and markets white Portland and masonry cements |
| Feb-18 | Perma-Patch | United States | Gemini Investors | Manufactures cold patch asphalt repair material |
| Jan-18 | On Time Ready Mix | United States | U.S. Concrete | Provides ready-mix concrete |
| Jan-18 | The Shockey Precast Group | United States | Metromont Corporation | Produces structural and architectural precast concrete systems |



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| Date Announced | Target | Target Country | Acquiror | Target Business Description |
|-------------------|---|----------------|---|--|
| Homebuilde | | | | • |
| Jun-18 | Hudspeth & Associates | United States | ASRC Industrial Services | Provides general construction and environmental remediation services |
| Jun-18 | WJH | United States | Century Communities | Provides home building services |
| Jun-18 | A-1 Sewer & Drain Plumbing & Heating | United States | Succession Capital Partners | Provides commercial and residential plumbing services |
| Jun-18 | AV Homes | United States | Taylor Morrison Home Corporation | Engages in the homebuilding and community development businesses |
| Jun-18 | The Dwyer Group | United States | Harvest Partners | Provides commercial and residential restoration and cleaning services |
| May-18 | Scott Felder Homes | United States | Platform Ventures | Engages in home building |
| May-18 | Triangle Home HVAC Division of Triangle Refrigeration Co. | United States | Ranck Plumbing Heating & Air Conditioning | Offers heating, ventilation and air conditioning installation and repair services to residential customers |
| Apr-18 | GHO Homes Corporation | United States | Green Brick Partners | Provides home building services |
| Apr-18 | Water Works | United States | Gold Medal Service | Provides plumbing, heating, air conditioning and water purification services |
| Apr-18 | The Brohn Group | United States | CMH Services | Provides home building services |
| Apr-18 | H2H Blinds | United States | Installed Building Products | Installs blinds and shutters for residential construction market |
| Apr-18 | Missouri Terrazzo Company | United States | Paul Berra | Operates as a flooring contractor |
| Mar-18 | Midwest Furnace and Roof Co. and Purdy Electric | United States | Kassel Equity Group | Provides HVAC, roofing and home remodeling services |
| Feb-18 | Hallmark Southwest Corporation | United States | Dvele | Manufactures prefabricated houses |
| Feb-18 | RSI Communities | United States | William Lyon Homes | Builds and sells new homes and residential communities |

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Jan-18

Jan-18

EcoCabins

Skyline Corporation

| Announced | Target | Target Country | Acquiror | Target Business Description |
|------------|------------------------------|----------------|-----------------------------|---|
| Homebuilde | rs (continued) | | | |
| Jan-18 | Greencraft Interiors | United States | L.A.R.K. Industries | Provides installation of flooring, cabinets and countertops for residential customers |
| Jan-18 | Candlelight Homes | United States | CalAtlantic Group | Offers home building services |
| Jan-18 | Rocket Insulation & Coatings | United States | Installed Building Products | Provides spray foam and fiberglass insulation installation services |

Sprout Tiny Homes

Champion Enterprises Holdings

(nka:Skyline Champion Corporation)

United States

United States

Engages in construction of modular residential buildings

Engages in factory-built housing business



Duff & Phelps' Ongoing and **Recent Transactions**

Sell Side Advisor (Ongoing)

Leading provider of resilient, hard-surface flooring

Sell Side Advisor (Ongoing)

Lumber manufacturing plant and pine sawmill

Sell Side Advisor



a Hart Group, Inc. company has been acquired by



Sell Side Advisor



has been acquired by



Sell Side Advisor



a portfolio company of



has been acquired by



Sell Side Advisor



has been acquired by



Sell Side Advisor



a portfolio company of



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