



# Monthly Statistics of Building Materials and Components

## Commentary

October 2017

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Coverage: UK and Great Britain  
Geographical area: Country, region  
and county  
Date of publication: 1<sup>st</sup> November  
2017

### Headline results

- **Construction material prices rose on a yearly basis.** The ‘All Work’ construction material price index increased by 5.2% in September 2017 compared to a year ago.
- **Bricks deliveries increased.** Sales increased by 10.5% in September 2017 compared to the same month last year, according to the seasonally adjusted figures.

## Important Notice

This publication is now published by the Department for Business, Energy and Industrial Strategy (BEIS). All references to the Department for Business, Innovation and Skills (BIS) made in this publication refer to when it was published by BIS. This has made no impact to the content of the publication.

The methodology for the sand and gravel estimates has changed. Please see the background notes for further details.

## Introduction

This commentary accompanies the latest Monthly Statistics of Building Materials and Components bulletin, published on the BEIS building materials [web page](#) on 1<sup>st</sup> November 2017. It aims to provide a brief overview of recent trends in the data presented in the bulletin.

The bulletin presents the latest detailed information on selected building materials and components. It covers the following building materials statistics (in parentheses, the data collection frequency and the geographical area covered):

- Construction material price indices (monthly, UK)
- Sand and gravel sales (quarterly, GB\*)
- Slate production, deliveries and stocks (quarterly, GB)
- Cement and clinker production, deliveries and stocks (annual, GB)
- Bricks production, deliveries and stocks (monthly, GB\*)
- Concrete building blocks production, deliveries and stocks (monthly, GB\*)
- Concrete roofing tiles production, deliveries and stocks (quarterly, GB)
- Ready-mixed concrete deliveries (quarterly, UK)
- Values of overseas imports and exports trades for selected materials and components for use in construction (quarterly, UK)
- Value of EU and Non-EU Trade for selected materials and components for use in construction (annual, UK)

Note: \* Regional figures available

These statistics support analysis of the construction materials market and business planning. They are regularly reported in the construction press and are used for a variety of purposes, including policy development and evaluation concerning the construction products industry, as well as monitoring market trends. Further detail is available in this document under [Uses of the data](#).

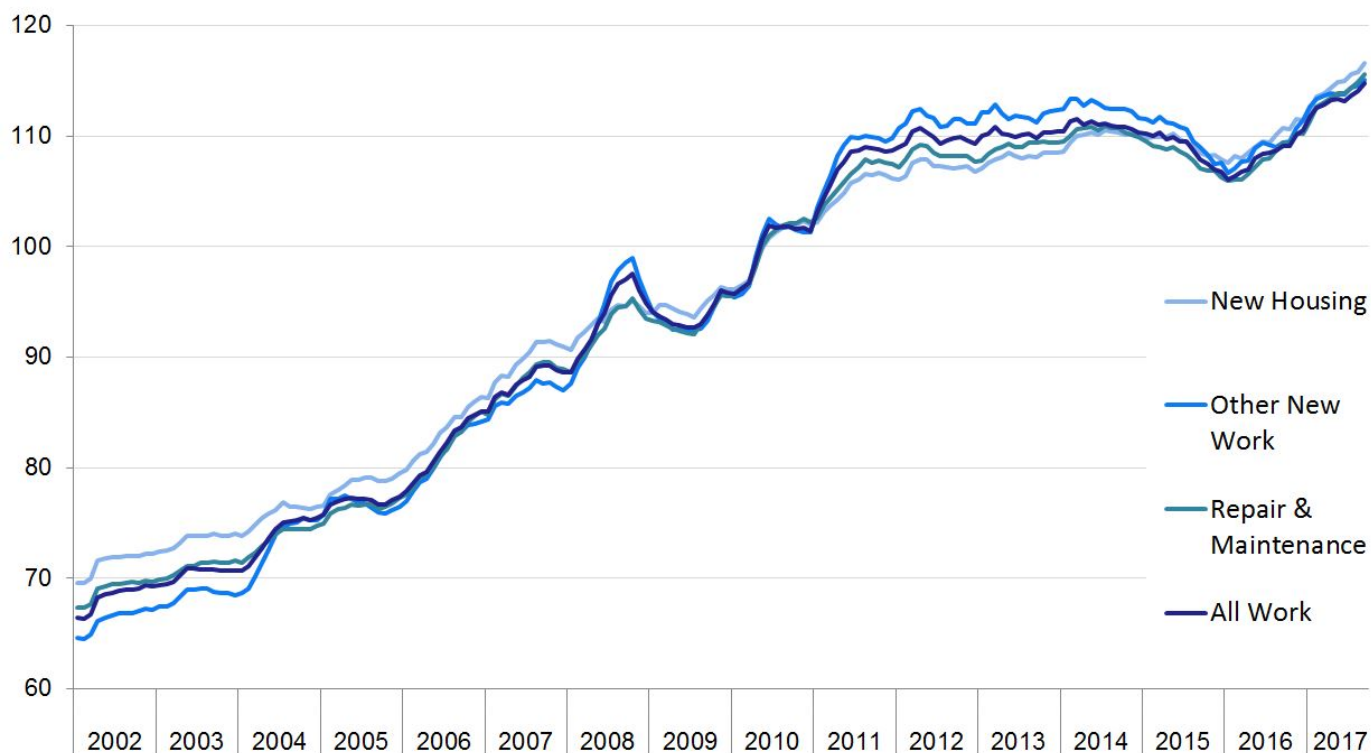
## Seasonal Adjustment Review

Seasonally adjusted series for deliveries of bricks, concrete blocks, ready-mixed concrete and sales of sand & gravel are published in this bulletin. The purpose of correcting the reported series is to allow for seasonal factors such as winter weather (including the reduction in hours of daylight, and frost and rain) and other seasonal events such as Christmas and Easter. Thus seasonally adjusted figures show the underlying trend more clearly. Further information can be found in paragraph 2 of the Background Notes ([see page 11](#)).

## Summary of results

### Material Price Indices

**Chart 1: Construction Material Price Indices, UK**  
Index, 2010 = 100



Source: Table 1, Monthly Statistics of Building Materials and Components

#### Year-on-year change

Change from September 2016 to September 2017	
<b>New Housing</b>	5.3%
<b>Other New Work</b>	5.2%
<b>Repair &amp; Maintenance</b>	5.7%
<b>All Work</b>	5.2%

#### Month-on-month change

Change from August 2017 to September 2017	
<b>New Housing</b>	0.7%
<b>Other New Work</b>	0.4%
<b>Repair &amp; Maintenance</b>	0.6%
<b>All Work</b>	0.6%

Looking at the longer term change, the material price index of ‘**All Work**’ increased by 5.2% in September 2017 compared to the same month in the previous year.

**Table 1: Construction materials experiencing the greatest price increases and decreases in the 12 months to September 2017, UK**

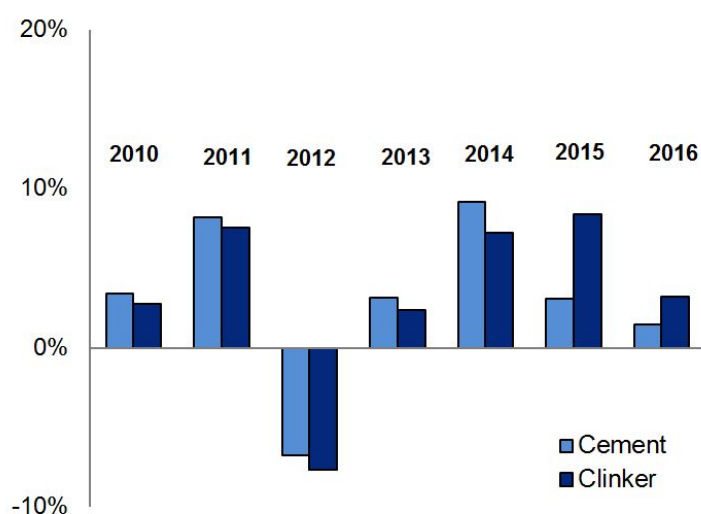
Construction Materials	% change on a year earlier
<b>Greatest price increases</b>	
Concrete reinforcing bars	17.6
Sawn wood	8.3
Imported sawn or planed wood	8.3
<b>Greatest price decreases</b>	
Crushed rock (excluding levy)	-1.0
Sanitaryware	-0.9
Crushed rock (including levy)	-0.8

The aggregated construction material price index hides larger price movements for some specific products and materials. The three largest increases and decreases are presented here.

Source: Table 2, Monthly Statistics of Building Materials and Components

## Cement & Clinker

**Chart 2: Production of Cement and Clinker, GB**  
Percentage change over previous year (%)



Cement production rose by 1.5% to 9.4 million tonnes in 2016, compared to the previous year. This growth in cement production follows growth of 3.1% to 9.2 million tonnes in 2015. Pre-recession production peaked in 2007 at 11.9 million tonnes.

Production of Clinker rose by 3.2% to 8.1 million tonnes in 2016, compared to the previous year. This growth in clinker production follows growth of 8.4% to 7.8 million tonnes in 2015. Pre-recession production, in 2007, stood at 10.2 million tonnes.

Source: Table 8, Monthly Statistics of Building Materials and Components

## Sand & Gravel

**Chart 3: Seasonally Adjusted Sales of Sand & Gravel, GB**  
Weight of sand & gravel



Source: Table 4, Monthly Statistics of Building Materials and Components

*The methodology for the sand and gravel estimates has changed. Please see the background notes for further details.*

- Sales of sand & gravel **increased 7.6%** in Quarter 2 2017 compared to Quarter 1 2017, according to the seasonally adjusted data.
- This followed an increase of 9.9% in Quarter 1 2017.
- Comparing Quarter 2 2017 to the same quarter in the previous year, sales have **increased by 4.9%**.

Seasonally adjusted sales of sand & gravel have consistently remained below levels typically seen before the recession.

## Concrete

**Chart 4: Seasonally Adjusted Sales of Ready-Mixed Concrete, GB**  
Volume of concrete



Source: Table 13, Monthly Statistics of Building Materials and Components

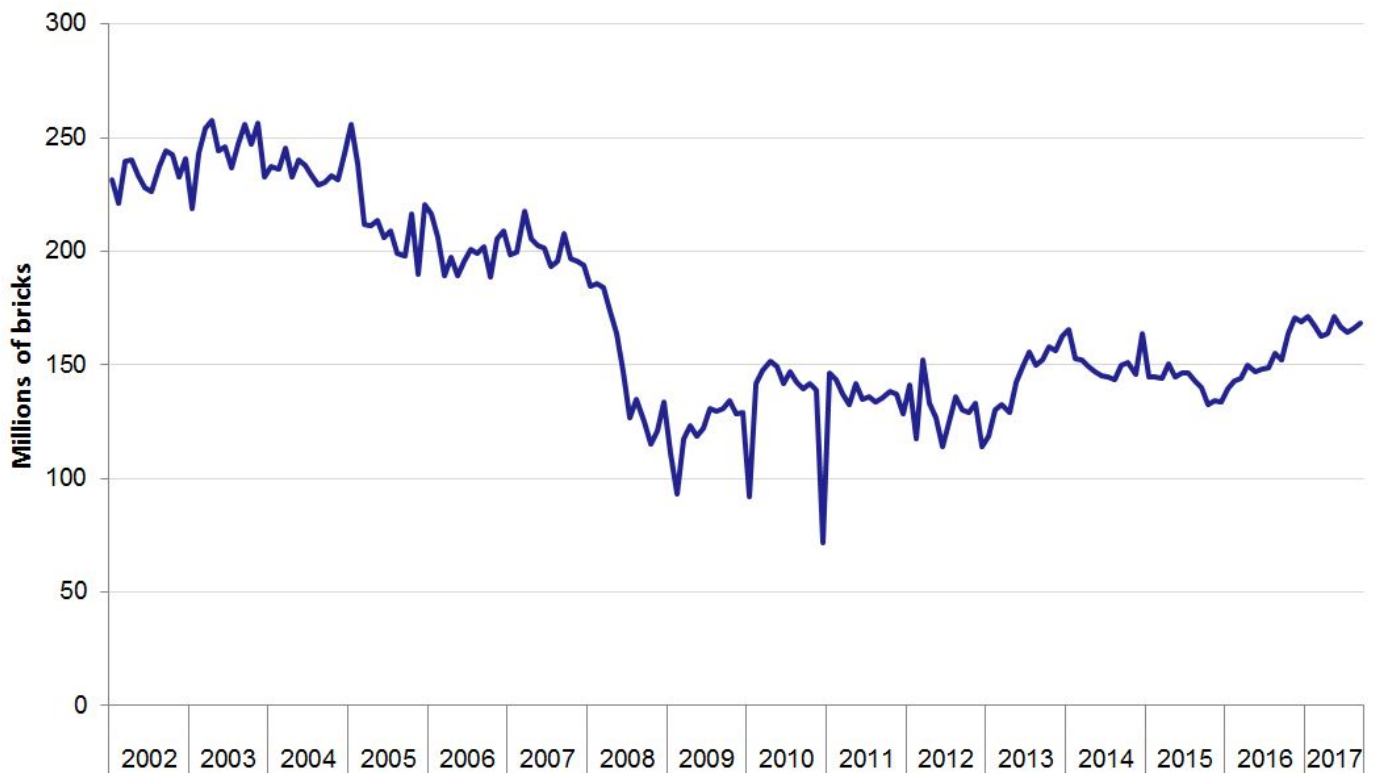
- Ready-mixed concrete sales **decreased 6.3%** in Quarter 2 2017 compared to Quarter 1 2017, according to the seasonally adjusted data.
- This followed a 0.7% **increase** in Quarter 1 2017.
- Sales in Quarter 2 2017 **decreased** by **3.2%** compared to the same quarter in the previous year, following a **0.2% increase** in Quarter 1 2017, on the same basis.

The seasonally adjusted data show that the lowest quarterly sales in the post-recession period occurred in Quarter 4 2010, which included extreme winter conditions.

Sales have steadily recovered since Quarter 2 2012, although they have failed to reach pre-recession levels.

## Bricks

**Chart 5: Seasonally Adjusted Deliveries of Bricks, GB**  
Number of bricks



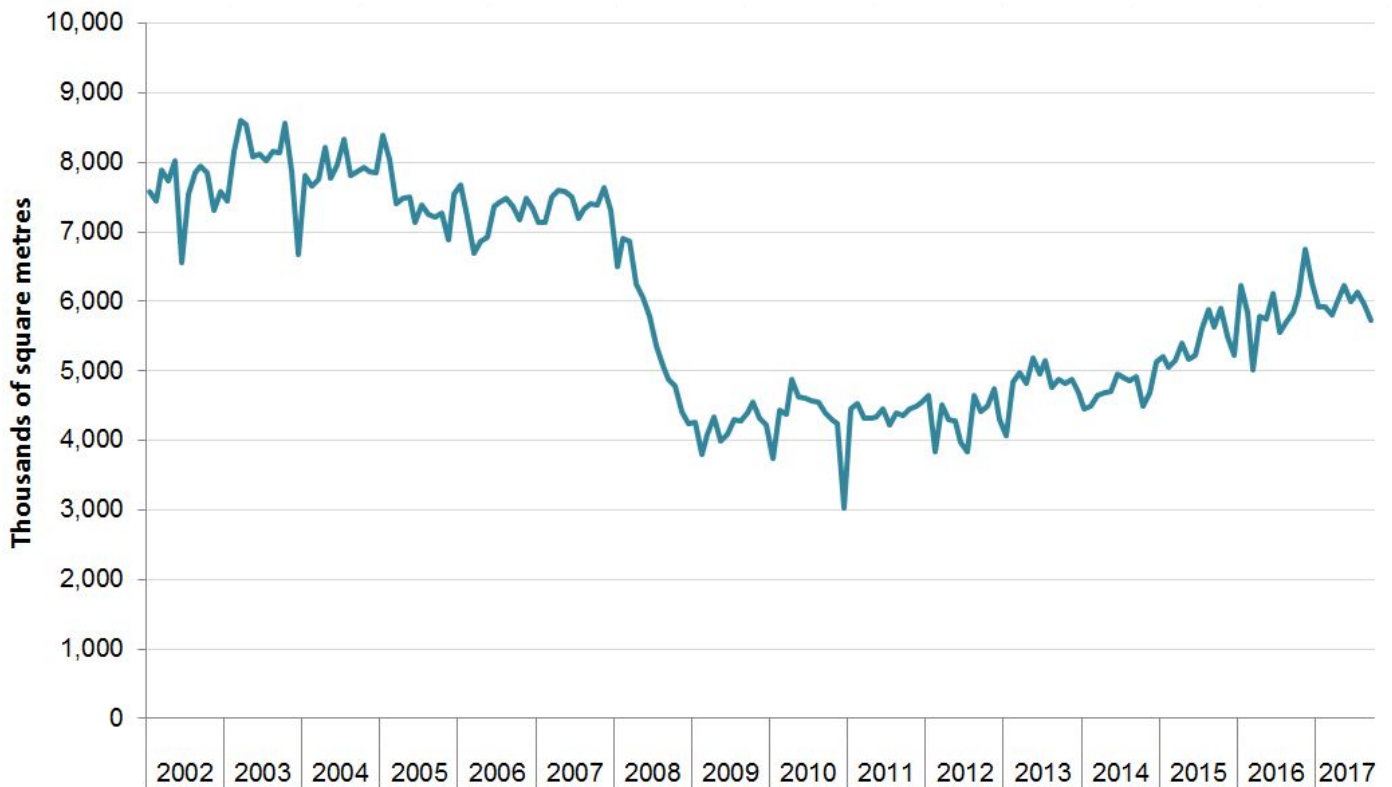
Source: Table 9, Monthly Statistics of Building Materials and Components

- There was a **10.5% increase** in brick deliveries in September 2017 compared to September 2016, according to the seasonally adjusted figures.
- This followed a 7.2% increase in August 2017, on the same basis.
- The month-on-month change shows a **1.5% increase** in September 2017.
- This followed a 1.1% increase in August 2017, on the same basis.

Brick deliveries declined during the recession and reached their lowest value during the extreme cold weather in December 2010. Deliveries were at their lowest point in October 2015 since April 2013.

## Blocks

**Chart 6: Seasonally Adjusted Deliveries of Concrete Blocks, GB**  
Area of concrete blocks



Source: Table 11, Monthly Statistics of Building Materials and Components

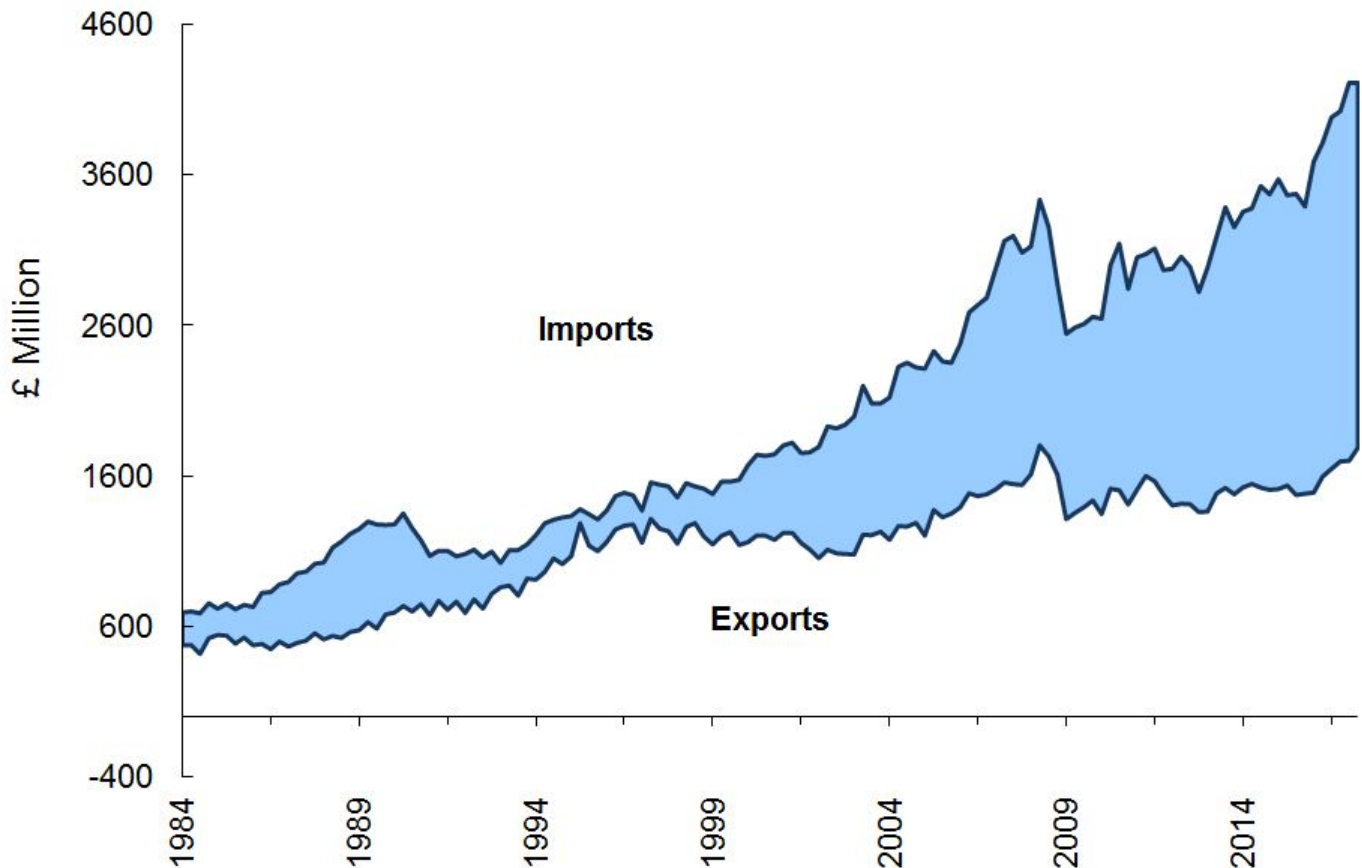
- There was a **2.1% decrease** in concrete block deliveries in September 2017 compared to September 2016, according to the seasonally adjusted figures.
- This followed a 4.3% increase in August 2017, on the same basis.
- The month-on-month change shows a **1.5% increase** in September 2017.
- This followed a 1.1% increase in August 2017, on the same basis.

Concrete block deliveries declined during the recession and reached their lowest value during the extreme cold weather in December 2010. Since then the trend has varied from month to month but the general trend year has been one of growth in concrete block deliveries.



## Imports and Exports of Construction Materials

**Chart 7: Exports and Imports of Construction Materials, UK.**  
value in pound sterling



Source: Table 14, Monthly Statistics of Building Materials and Components

**Imports** of construction materials **decreased** by £730,000 in the second quarter of 2017 (to £4,214 million) compared to the previous quarter, an decrease of 0.02%.

**Exports** of construction materials **increased** in the first quarter of 2017 by £87 million (to £1,787 million), a 5.2% increase.

As a result, the **trade deficit decreased** by £88 million to £2,426 million in Quarter 2 2017, an decrease of 3.5%. The trade gap widened in 2016 by £419 million compared to 2015, the majority of the increase was due to imports.

Over the period from Quarter 1 1984 to Quarter 2 2017, construction materials imports have increased, on average (per quarter), by 3.8%. Over the same period, exports increased by an average of 2.1% per quarter.

The trade deficit was historically at its smallest throughout the 1990s, with a mean of £0.3 billion over this period. This trade deficit was 24% of the value of imports. Currently (Quarter 2 2017), the trade deficit is £2,426 million, 58% of the value of imports.

The top five exported materials in 2016 accounted for 37% of total construction material exports. The top five imported construction materials in 2016 accounted for 31% of total construction material imports.

**Table 2: Top-5 Exported and Imported Construction Materials in 2016**

£ million

Top-5 Exported Materials		Top-5 Imported Materials	
Electrical Wires	711	Electrical Wires	1,723
Paints & Varnishes	608	Lamps & Fittings	973
Lamps & Fittings	365	Sawn Wood > 6mm thick	838
Plugs & Sockets	360	Central Heating Boilers	624
Air Conditioning Equipment	341	Air Conditioning Equipment	585

Source: Table 14, Monthly Statistics of Building Materials and Components

**Table 3: UK Trade of Construction Materials with EU and Non-EU Countries, 2016**

£million (% of total trade in italics)

All Building Materials & Components	EU	Non-EU	Compared to pre-recession levels in 2007, the share of total UK construction material exports going to the EU has declined from 70% to 60%.
Imports	9,570	5,944	
	62%	38%	
Exports	3,867	2,557	
	60%	40%	

Source: Table 15 Monthly Statistics of Building Materials and Components

The top five export markets comprised 49% of total construction materials exports in 2016. The Republic of Ireland remains the largest market, despite having shrunk from a pre-recession peak of 27% of total exports in 2007, to 14% in 2016.

The top 5 import markets comprised 49% of total construction materials imports in 2016. 17% of all imports are from China.

**Table 4: Top 5 UK Export and Import Markets for Construction Materials in 2016**

£ million

Top-5 Export Markets		Top-5 Import Markets	
Republic of Ireland	918	China	2596
Germany	668	Germany	2369
France	529	Italy	1091
USA	525	Netherlands	819
Netherlands	503	Spain	745

Source: HMRC Overseas Trade Statistics

The '[Rotterdam Effect](#)' (also known as the '[Antwerp Effect](#)') may affect trade figures. This is explained in detail by [HM Revenue & Customs](#).

## Economic Background

### Construction Output

The most recent [construction output](#) figures for July 2017 were published by the **Office for National Statistics** on 10<sup>th</sup> October 2017.

#### *Key points:*

- Construction output contracted by 0.8% in the three month on three month series in August 2017 but remains at relatively high levels.
- The three month on three month decline in output was due to decreases in both repair and maintenance, which fell 0.6% and all new work, which fell 0.9%.
- Construction output grew 0.6% month-on-month in August 2017, predominantly driven by a 1.7% rise in all new work.
- The month-on-month rise in all new work stemmed from growth in private housing, which grew 2.3% and infrastructure, which increased by 3.6%.
- Estimates in this bulletin are consistent with the Quarterly National Accounts: April to June 2017 publication released on 29 September 2017 and will feed into the annual national accounts Blue Book 2017 publication, due to be released on 31 October 2017.
- As a result of the improvements that have been implemented to construction output, revisions can be seen from Quarter 1 (Jan to Mar) 2010.

### Bank of England Summary of Business Conditions

The **Bank of England** published its latest update to the [Agents' Summary of Business Conditions](#) on 20<sup>th</sup> September 2017, covering intelligence gathered between late May 2017 and late August 2017.

#### *Key points:*

- Construction growth had remained modest, with signs of softening and some contacts expressing concern over the sector's near-term prospects.
- Contacts expressed mixed views on infrastructure, with some contacts expressing concern about potential delays or deferrals of major projects.
- Negative sentiment was expressed in London and the surrounding areas, while favourable market conditions were reported in parts of Midlands, Scotland, Wales and Northern Island.

## Gross Domestic Product Estimate

The **Office for National Statistics** published an initial estimate to gross domestic product for Quarter 3 2017 on 25<sup>th</sup> October 2017.

### *Key points:*

- GDP is estimated to have increased by 1.5% in Quarter 3 2017 compared to Quarter 2 2017.
- GDP is estimated to have increased by 0.4% in Quarter 3 2017 compared to Quarter 2 2017.
- Construction output increased by 2.8% in Quarter 3 2017 compared to Quarter 3 2016.
- Construction output decreased by 0.7% in Quarter 3 2017 compared to Quarter 2 2017.

## Gross Domestic Product Forecast

The latest monthly **Consensus Economics** [forecast survey](#) (which uses an average of private sector forecasts) results were published in September 2017.

### *Key points:*

- The mean GDP growth forecast for 2017 is 1.6% growth, no change from last month.
- The mean GDP growth forecast for 2018 is 1.4% growth; there has been no change from last month.

The **Office for Budget Responsibility** published its most recent [Economic and Fiscal Outlook](#) on 8<sup>th</sup> March 2017.

### *Key point:*

- The GDP growth forecast for 2017 was revised upwards by 0.6 percentage points to 2.0% growth.

## Construction Output Forecasts

This winter, **Experian** published their [forecasts](#) for the construction sector.

### *Key points:*

- Output is expected to increase by 1.3% in 2017 and increase by 0.9% in 2018 and 1.8% in 2019.
- Public housing and private housing will continue to rise in future years until 2019.
- There was a 9.2% downturn in the infrastructure sector in 2016, believed to be due primarily to a hiatus in roads work. This is estimated to recover from 2018 onwards, where growth is projected.
- Non-residential building is expected to grow in 2017 and decline in 2018 and 2019.

The **Construction Products Association** published their winter [forecasts](#) for the construction sector in February. Because of the uncertainty, CPA produced a central forecast with higher and lower bounds, rather than the usual point estimates.

*Key points:*

- The central scenario is that construction sector is expected to grow by 1.6% in 2016. The following years predictions are all of growth: 0.8% in 2017, 0.7% in 2018 and 2.2% in 2019.
- In the central scenario, private new housing continues to grow in 2016 but experience subdued growth in 2017 to 2019. Infrastructure output grows over the whole forecast period, with strong growth in 2017 (7.0%) and 2018 (10.7%), and 2019 (12.6%). Due in part to a predicted fiscal stimulus in the Autumn Statement and the start of activity on Hinckley Point C.
- The lower scenario is that construction will fall by 0.4% in 2016, 4.4% in 2017 and 2.9% in 2018, with falls in private new housing, private commercial. The forecast for infrastructure is growth in 2017 and 2018.
- The upper scenario is that construction rises by 3.9% in 2016, 2.7% in 2017 and 4.2% in 2018, with rises in private housing and infrastructure output.

## Manufacturing

The latest **Index of Production** data for August 2017 were [published](#) on 10<sup>th</sup> October 2017 by the Office for National Statistics.

*Key points for the SIC 23.1-4/7-9 industry (includes the manufacture of bricks, tiles and other construction products):*

- When comparing August 2017 with August 2016, **output decreased by 4.5%**.
- When comparing August 2017 with July 2017, **output decreased by 0.1%**.

*Key points for the SIC 23.5-6 industry (includes the manufacture of concrete, cement and other products for construction purposes):*

- When comparing August 2017 with August 2016, **output decreased by 5.5%**.
- When comparing August 2017 with July 2017, **output decreased by 0.7%**.

## Background notes

### Quality information for the Building Materials bulletin

1. The United Kingdom Statistics Authority has designated these statistics as National Statistics, in accordance with the Statistics and Registration Service Act 2007 and signifying compliance with the Code of Practice for Official Statistics.

Designation can be broadly interpreted to mean that the statistics:

- meet identified user needs;
- are well explained and readily accessible;
- are produced according to sound methods, and
- are managed impartially and objectively in the public interest.

Once statistics have been designated as National Statistics it is a statutory requirement that the Code of Practice shall continue to be observed. The full assessment [report](#), published on 22nd December 2011, can be found on the UK Statistics Authority website.

2. As of 3<sup>rd</sup> August 2016, this publication is published by the Department for Business, Energy and Industrial Strategy (BEIS). All references to the Department for Business, Innovation and Skills (BIS) made in this publication refer to when it was published by BIS. This has made no impact to the content of the publication.
3. In work done for BIS on improving the quality of statistics published in the Monthly Statistics of Building Materials and Components, the Office for National Statistics' Methodology Advisory Service (MAS) recommended that BIS should start seasonally adjusting key data series (see [ONS/MAS review of building materials statistics: final report](#) for more detail). Seasonal adjustment is widely used in official statistics and aids data interpretation by removing effects associated with the time of the year or arrangement of the calendar. Seasonal effects frequently obscure features of interest in data, such as long term trends and the effects of unusual occurrences. By removing seasonal effects, users can more readily identify the features of interest.

Following advice from the MAS, and the results of a consultation (see the [results of the BIS consultation on seasonal adjustment](#) for more detail), BIS agreed to publish seasonally adjusted data for the following series:

Sand and gravel, total sales  
Concrete blocks, all types deliveries  
Bricks, all types deliveries  
Ready-mixed concrete, deliveries

For the initial publication of seasonally adjusted data, data from 1983 onwards will be seasonally adjusted. Subsequently, for each monthly publication, data up to 12 months or 4 quarters previous to the new data point will be revised. Upon the completion of each year's

data series, data for the previous 12 years will be revised. BIS will publish both non-seasonally adjusted and seasonally adjusted data in the tables of this publication. From the June 2015

Edition this publication will only use seasonally adjusted data in the commentary for these series.

- Quality issues related to the *Building Materials and Components* outputs are discussed in the review of the Building Material statistics that was carried out in 2010 by BIS's construction team. The review aimed to: ascertain user needs; examine whether existing data collection methodologies are fit for purpose; estimate compliance costs; assess compliance with the Code of Practice; and identify options for change.

The full [report](#) can be found on the BIS *Building Materials and Components* webpage.

Detailed information on data suppliers, coverage and data collection methodology can be found in sections 2.1-2.10. Quality issues (coverage and accuracy of sample panels, response rates, survey results processing, disclosure etc.) and potential measures that could be employed to improve the quality of the statistics are discussed in section 2.11 of the review. Users' views on the quality of the *Building Materials and Components* statistics are given in section 3.3.4. These are derived from a user survey carried out in early 2010, as part of the review (see section 3 for details).

- Following the review, BIS acted on the recommendations including commissioning the Office for National Statistics Methodology Advisory Service (ONS/MAS) to address some of the recommendations from the 2010 review. In July 2011, MAS published their [interim report](#). In July 2012, MAS published their [final report](#).
- HM Revenue and Customs use administrative sources to produce Overseas Trade Statistics. A [Statement of Administrative Sources](#) used to compile construction material trade statistics is available on the BIS *Building Materials and Components* webpage:

Separately, HM Revenue and Customs also have a [Statement of Administrative Sources](#) which covers Overseas Trade Statistics.

- [The pre-announcement of any major changes to samples or methodology](#) also details some methodological changes to the collection of data.
- The following table gives a summary of response rates related to some of the latest survey results. Where the response rate is less than 100%, estimates are made for missing values.

<b>For latest data used</b>	<b>Bulletin table number</b>	<b>Response rate</b>
Quarterly Sand and Gravel	4, 5 & 6	87%
Quarterly Sand and Gravel – Land Won	4, 5 & 6	85%
Quarterly Sand and Gravel – Marine Dredged	4, 5 & 6	92%
Quarterly Slate	7	100%
Quarterly Concrete Roofing Tiles	13	100%
Monthly Bricks Provisional data	9	92%
Monthly Bricks Final data	9 & 10	100%
Monthly Concrete Blocks	11	86%

9. Change to the methodology for the land-won sand and gravel surveys. Previously we have used information from the Annual Minerals Raised Inquiry (AMRI) run by the Department for Communities and Local Government in order to select the sample of sites which received the land-won sand and gravel survey and to weight the results to reflect the population. DCLG no longer run AMRI, and so we have had to make changes to the sand and gravel surveys, which took effect from Q1 2017. The changes are:

- We have changed the survey from a sample to a census, so that we now send forms to all sites identified as producing sand and/or gravel. This has increased our panel from about 200 sites to around 500, and means that we will no longer need to weight the returns. We will still need to impute for any non-response.
- We refreshed our panel of sites using information from the British Geological Survey, ensuring that it was up-to-date.
- We made the survey statutory, bringing it into line with the marine-dredged sand and gravel survey which was already statutory. This means that respondents are required to complete the survey under the Statistics of Trade Act 1947.

## Uses of the data

10. The *Building Materials and Components* statistics are used for a variety of purposes, including policy development and evaluation concerning the construction products industry, as well as monitoring market trends. In a wider context, the figures are regularly reported in the construction press to facilitate market analysis and business planning for its wide range of readers. The statistics are also increasingly used by financial institutions for assessing market information and industry trends. For more information on the uses of the Building Materials statistics, their usefulness to users and users' views on the quality of these statistics, see Section 3 of the *Building Materials and Components* [review](#).

## Related Statistics

11. [Construction Statistics: Sources and Outputs](#) lists the known sources of information available on the construction industry and their outputs. These include information on employees, employment, enterprises, output and new orders in the construction industry as well as the contribution of the industry to the economy. Related information, for example housing, is also included.

12. The [Construction Statistics Annual](#) brings together a wide range of statistics currently available on the construction industry from a variety of sources and provides a broad perspective on statistical trends in the construction industry, with some international comparisons.

13. In its monthly **Index of Production (IoP)** [publication](#), the Office for National Statistics publishes Gross Value Added (seasonally adjusted, UK) data for the following two industries:

- SIC 23.1-4/7-9 industry, which includes the manufacture of bricks, tiles and other construction products.
- SIC 23.5-6 industry, which includes the manufacture of concrete, cement and other products for construction purposes.

These data are not directly comparable with the data in this bulletin, due to differences in coverage and methodology. They are nevertheless useful in illustrating the latest output trends of related construction materials as measured by the Office for National Statistics.



## Revisions

14. Our [revisions policy](#) can be found on the BEIS Building Materials webpage.
15. [The pre-announcement of any major changes to samples or methodology](#) and [Summary of Revisions](#) give further information on revisions and other changes to data and can also be found on the BEIS Building Materials webpage.

## Pre-release access

16. No [pre-release access](#) is granted to this publication.

## Further information

The coverage of cement and cementitious statistics changed from UK to GB in 2002 due to data confidentiality issues in Northern Ireland as the number of manufacturers decreased. Where the coverage of figures for other building materials is limited to Great Britain (i.e. sales of sand and gravel, and production, deliveries and stocks of slate, clinker, bricks, concrete building blocks and concrete roofing tiles), no equivalent data are collected for Northern Ireland.

The most recently published bulletin and accompanying data tables can be found on BIS' *Building Materials and Components* [website](#).

Accompanying tables with data relating to 2011 are accessible from [this](#) link.

Accompanying tables for 2005 - 2010 are accessible from [this](#) link.

Requests for older data should be sent to [MaterialStats@beis.gov.uk](mailto:MaterialStats@beis.gov.uk).

*Please send us any comments or feedback you may have about this commentary.*

**Next publication:** 1<sup>st</sup> November 2017

**Statistical Contact:** Frances Pottier  
Tel: +44 (0)207 215 1953  
Email: [MaterialStats@beis.gov.uk](mailto:MaterialStats@beis.gov.uk)

**Website:** [Building Materials Construction Statistics](#), part of the [Business, Energy and Industrial Strategy](#) website.



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Contact us if you have any enquiries about this publication, including requests for alternative formats, at:

Department for Business, Energy and Industrial Strategy  
1 Victoria Street  
London SW1H 0ET  
Tel: 020 7215 1953

Email: [MaterialStats@beis.gsi.gov.uk](mailto:MaterialStats@beis.gsi.gov.uk)

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