



**MATERIAL COSTS INDEX IN THE CONSTRUCTION OF NEW RESIDENTIAL BUILDINGS: September 2023, y-o-y increase 6.4%**

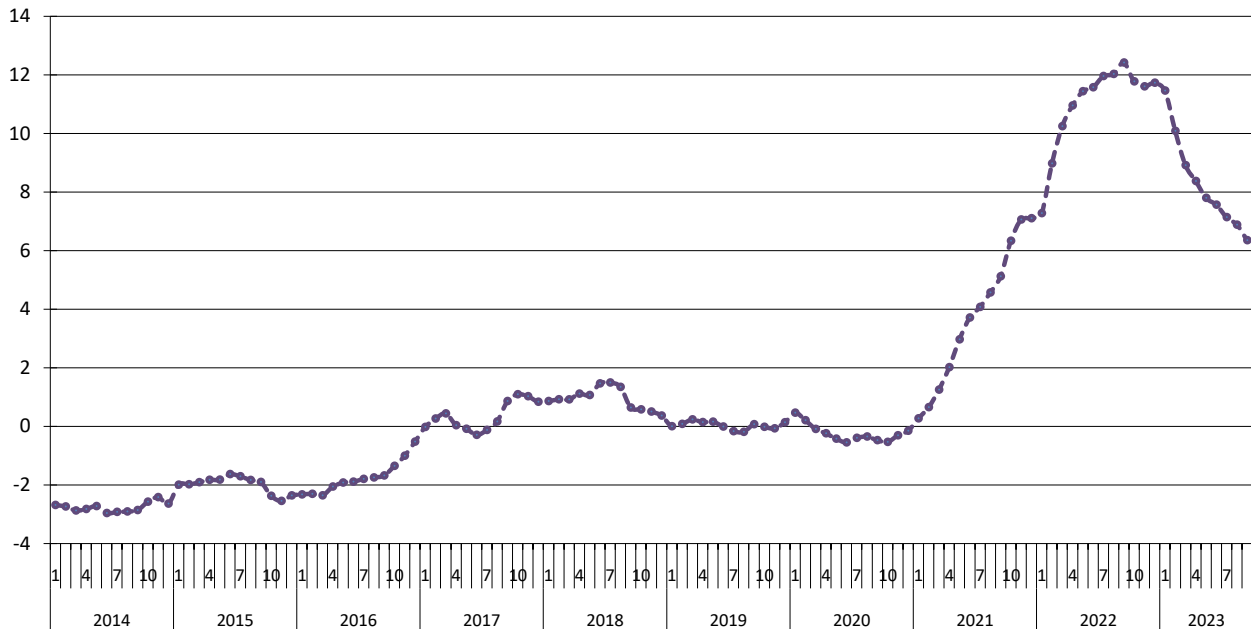
The Overall Material Costs Index in the Construction (CSTM) of New Residential Buildings with base year 2015=100.0 in September 2023 recorded an increase of 6.4% in comparison with September 2022. The corresponding index in September 2022 had recorded an increase of 12.4% compared with September 2021 (Table 1).

The Overall Index in September 2023, compared with the corresponding index in August 2023, recorded an increase of 0.4%. The index had recorded an increase of 0.9% between September 2022 and August 2022 (Table 2).

The average Index for the twelve-month period from October 2022 to September 2023, compared with the corresponding index for the twelve-month period from October 2021 to September 2022, recorded an increase of 9.1%. The comparison of the average Material Costs Index in the corresponding previous twelve-month periods had shown an increase of 9.8% (Table 3).

The time series of CSTM is available on the website of the Hellenic Statistical Authority (ELSTAT), at:  
<http://www.statistics.gr/en/statistics/-/publication/DKT60/>

**Evolution of annual rates of change (%) of the Material Costs Index in the Construction of New Residential Buildings (2015=100.0)**



**Information on methodological issues:**

Division of Business Statistics  
Section of Manufacture-Construction Indices and Industrial Products  
Head of the Section: Diamantaki Aikaterini  
Tel: +30 213 135 2056  
E-mail: [a.diamantaki@statistics.gr](mailto:a.diamantaki@statistics.gr)

**Information on data provision:**

Tel: +30 213 135 2022, 2308, 2310  
E-mail: [data.dissem@statistics.gr](mailto:data.dissem@statistics.gr)

### Annual rates of change: September 2023 compared with September 2022

The Overall Material Costs Index in the Construction of New Residential Buildings in September 2023, compared with the corresponding index in September 2022 recorded an increase of 6.4% (Table 1). The main changes in the individual costs indices of the material categories are as follows:

Material categories	Rates of change %
Bricks	13.8
Safety glass	12.6
Plastic pipes	12.3
Central heating radiators	11.3
Cupreous Pipes	7.3
Ready-mixed concrete	7.0
Floor and wall tiles generally	7.0
Parquet flooring	7.0
Cupboards	6.8
Marble slabs	6.7
Cement	6.5
Wall cupboards	6.3
Aluminium door and window frames	6.2
Emulsion paints	5.7
Windows	5.5
Copper pipes	4.9
Internal doors	4.6
Steel reinforcing rods	4.3
Electric energy	-1.2
Diesel fuel	-2.2

### Monthly rates of change: September 2023 compared with August 2023

The Overall Material Costs Index in the Construction of New Residential Buildings in September 2023 recorded an increase of 0.4% in comparison with the corresponding index in August 2023 (Table 2). The main changes in the individual costs indices of the material categories are as follows:

Material categories	Rates of change %
Diesel fuel	4.0
Cement	0.9
Bricks	0.8
Aluminium door and window frames	0.5
Steel reinforcing rods	0.4
Ready-mixed concrete	0.4
Copper pipes	-0.2
Electric energy	-0.4

**Table 1: Annual rates of change of the Material Costs Index in the Construction of New Residential Buildings**

**Base year: 2015=100.0**

S/N	Material groups	Weighting coefficient	September			Rates of change (%)	
			2023	2022	2021	2023/2022	2022/2021
	<b>Overall Index</b>	<b>100.00</b>	<b>124.5</b>	<b>117.1</b>	<b>104.1</b>	<b>6.4</b>	<b>12.4</b>
1	Cement, mortars and ready mixed concrete	16.25	118.0	110.5	99.7	6.8	10.9
2	Natural stone	1.76	116.8	110.9	100.6	5.2	10.3
3	Marble products, granites	4.02	121.0	113.1	102.1	7.0	10.8
4	Artificial stone	5.18	146.8	131.1	104.8	12.0	25.1
5	Timber and builders' carpentry	14.33	117.2	111.1	99.4	5.5	11.8
6	Basic metals	24.85	129.5	123.4	107.3	5.0	15.0
7	Plumbing, heating and drainage equipment and supplies	9.92	128.2	118.8	111.8	8.0	6.2
8	Door and window fittings	2.01	118.5	112.3	104.4	5.5	7.5
9	Electrical equipment	4.79	135.3	125.7	110.2	7.6	14.1
10	Glass products	3.24	128.4	115.3	105.0	11.3	9.9
11	Paints and varnishes	2.86	121.5	114.9	104.1	5.7	10.4
12	Floor and wall tiles and sanitary ware	4.79	114.4	107.4	99.1	6.6	8.3
13	Insulating materials	1.38	115.0	109.4	99.7	5.1	9.8
14	Elevators	2.68	109.3	106.2	99.3	2.9	7.0
15	Fuel for machinery (diesel), electricity, water	1.94	134.7	136.8	108.2	-1.5	26.4

*Note: The indices and the percentage changes are published rounded up to one decimal digit.*

**Table 2: Monthly rates of change of the Material Costs Index in the Construction of New Residential Buildings**

**Base year: 2015=100.0**

S/N	Material groups	Weighting coefficient	September 2023	August 2023	Rates of change (%)	September 2022	August 2022	Rates of change (%)
	<b>Overall Index</b>	<b>100.00</b>	<b>124.5</b>	<b>124.0</b>	<b>0.4</b>	<b>117.1</b>	<b>116.0</b>	<b>0.9</b>
1	Cement, mortars and ready mixed concrete	16.25	118.0	117.4	0.5	110.5	109.8	0.7
2	Natural stone	1.76	116.8	116.4	0.3	110.9	110.3	0.6
3	Marble products, granites	4.02	121.0	120.7	0.3	113.1	112.5	0.5
4	Artificial stone	5.18	146.8	145.8	0.7	131.1	129.5	1.2
5	Timber and builders' carpentry	14.33	117.2	116.9	0.3	111.1	110.2	0.8
6	Basic metals	24.85	129.5	129.0	0.4	123.4	121.6	1.5
7	Plumbing, heating and drainage equipment and supplies	9.92	128.2	127.9	0.3	118.8	118.1	0.6
8	Door and window fittings	2.01	118.5	118.2	0.3	112.3	110.9	1.2
9	Electrical equipment	4.79	135.3	134.8	0.4	125.7	124.0	1.4
10	Glass products	3.24	128.4	127.9	0.4	115.3	115.2	0.2
11	Paints and varnishes	2.86	121.5	121.1	0.3	114.9	113.7	1.1
12	Floor and wall tiles and sanitary ware	4.79	114.4	113.7	0.7	107.4	105.8	1.5
13	Insulating materials	1.38	115.0	114.6	0.3	109.4	108.2	1.2
14	Elevators	2.68	109.3	109.3	0.0	106.2	105.9	0.3
15	Fuel for machinery (diesel), electricity, water	1.94	134.7	132.8	1.5	136.8	140.4	-2.6

*Note: The indices and the percentage changes are published rounded up to one decimal digit.*

**Table 3: Evolution of the Material Costs Index in the Construction of New Residential Buildings**

**Base year: 2015=100.0**

Year and month	Overall Index	Monthly rates of change (%)	Annual rates of change (%)	12-month average index (moving average)	Annual rates of change (%) of 12-month average index
<b>2021:</b> 1	100.2	0.7	0.3	99.3	-0.3
2	100.5	0.4	0.7	99.4	-0.2
3	100.9	0.4	1.3	99.5	-0.1
4	101.4	0.5	2.0	99.7	0.1
5	102.1	0.7	3.0	99.9	0.4
6	102.6	0.5	3.7	100.2	0.7
7	103.1	0.5	4.1	100.6	1.1
8	103.6	0.4	4.6	100.9	1.5
9	104.1	0.6	5.1	101.4	2.0
10	105.2	1.1	6.3	101.9	2.5
11	106.2	0.9	7.1	102.5	3.2
12	106.6	0.4	7.1	103.1	3.8
<b>Annual average</b>	<b>103.1</b>				
<b>2022:</b> 1	107.5	0.8	7.3	103.7	4.3
2	109.5	2.0	9.0	104.4	5.0
3	111.3	1.6	10.2	105.3	5.8
4	112.6	1.2	11.0	106.2	6.6
5	113.8	1.1	11.4	107.2	7.3
6	114.5	0.6	11.6	108.2	7.9
7	115.4	0.8	12.0	109.2	8.6
8	116.0	0.5	12.0	110.2	9.2
9	117.1	0.9	12.4	111.3	9.8
10	117.6	0.5	11.8	112.3	10.3
11	118.5	0.7	11.6	113.4	10.6
12	119.1	0.5	11.7	114.4	11.0
<b>Annual average</b>	<b>114.4</b>				
<b>2023:</b> 1	119.8	0.6	11.5	115.4	11.4
2	120.6	0.7	10.1	116.4	11.4
3	121.2	0.5	8.9	117.2	11.3
4	122.0	0.7	8.4	118.0	11.1
5	122.7	0.6	7.8	118.7	10.8
6	123.2	0.4	7.6	119.4	10.4
7	123.7	0.4	7.1	120.1	10.0
8	124.0	0.3	6.9	120.8	9.6
9	124.5	0.4	6.4	121.4	9.1

*Note: The indices and the percentage changes are published rounded up to one decimal digit.*

## METHODOLOGICAL NOTES

<b>Generally</b>	The compilation of the Material Costs Index in the Construction of New Residential Buildings started in 1971. The index with base year 2015 is compiled since April 2019, when it replaced the previous index with base year 2010.
<b>Purpose of the index – definitions</b>	<p>The purpose of the index is to measure the monthly rates of change in the prices of building materials paid by the constructors and consumed in the construction of new residential buildings.</p> <p>The Material Costs Index is a monthly index and consists a sub-index of the Overall Costs Index in Construction of New Residential Buildings.</p> <p>For the compilation of the index the prices of the materials supplied, which are actually paid by the construction enterprises at the site, are collected and do not include VAT and other deductible taxes.</p>
<b>Legal framework</b>	The compilation of the Material Costs Index is governed by Council Regulation (EC) No 1165/1998 concerning short-term statistics and by Regulation No 1158/2005 of the European Parliament and of the Council (amending the above mentioned Regulation). Furthermore, this index is governed by Regulation (EU) No 2019/2152 of the European Parliament and of the Council on European business statistics, as well as Commission Implementing Regulation (EU) No 2020/1197 laying down technical specifications and arrangements pursuant to Regulation (EU) No 2019/2152.
<b>Reference period</b>	Month.
<b>Base year</b>	2015=100.0.
<b>Revision</b>	The Material Costs Index is a fixed base index. After the last revision, the index is calculated with base year 2015=100.0. Pursuant to the provisions of Council Regulation No 1165/1998 concerning short-term statistics, the index is revised every five (5) years, in years ending in 0 or 5.
<b>Statistical classification</b>	A national classification is followed, which includes 91 categories of materials, aggregated in 15 groups.
<b>Geographical coverage</b>	The geographical coverage of the index includes the country as a whole however prices are collected only in the biggest urban centers of the country (Greater Athens, Thessaloniki, Patra, Herakleio, Larisa and Volos).
<b>Coverage of economic activities</b>	The Material Costs Index in Construction of New Residential Buildings is a construction costs index (input index) and covers the transactions for the acquisition of building materials of the new residential buildings construction sector from the units / enterprises that provide these materials.
<b>Statistical survey</b>	A total number of 1,512 observations (prices) collected from 280 commercial or industrial enterprises supplying building materials are used for the compilation of the index. For electricity, prices are collected from the Public Power Corporation, while for water data are provided by water supply companies.
<b>Publication of data</b>	The index with the new base year 2015=100.0 is released since April 2019, with March 2019 as the first reference month. Times series data with base year 2015=100.0 are available from January 2000 onwards.
<b>References</b>	More information about the methodology concerning the compilation and calculation of the index and for the time series is available on the website of the Hellenic Statistical Authority (ELSTAT) ( <a href="http://www.statistics.gr/en/statistics/-/publication/DKT60/">http://www.statistics.gr/en/statistics/-/publication/DKT60/</a> ).