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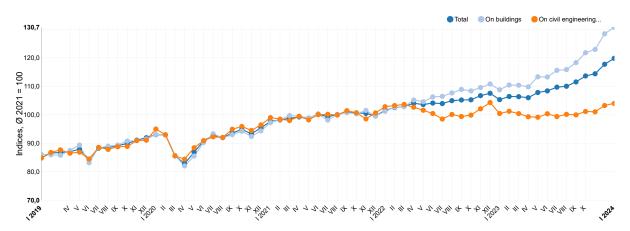
CONSTRUCTION WORK INDICES, JANUARY 2024 – Provisional Data, Final Data for 2023

According to working-day adjusted indices, the volume of construction works increased by 14.3% in January 2024 as compared to January 2023.

According to seasonally and working-day adjusted indices, the volume of construction works increased by 1.8% in January 2024 as compared to December 2023.

Notice:

In addition to the provisional data for January 2024, the final data for 2023 are also published.



G-1 VOLUME INDICES OF CONSTRUCTION WORKS, SEASONALLY AND WORKING-DAY ADJUSTED, JANUARY 2019 - JANUARY 2024

I SEASONALLY AND WORKING-DAY ADJUSTED INDICATORS

1 VOLUME OF CONSTRUCTION WORKS – MONTH-ON-MONTH AND QUARTER-ON-QUARTER GROWTH RATES CALCULATED ON BASIS OF SEASONALLY AND WORKING-DAY ADJUSTED INDICES

	<u>X 2023</u> IX 2023	<u>XI 2023</u> X 2023	<u>XII 2023</u> XI 2023	<u>l 2024</u> XII 2023	<u>I – III 2023</u> X – XII 2022	<u>IV – VI 2023</u> I – III 2023	<u>VII – IX 2023</u> IV – VI 2023	<u>X – XII 2023</u> VII – IX 2023
Total	1,9	0,7	2,9	1,8	-0,4	1,3	2,8	4,4
On buildings	2,9	1,0	4,5	1,8	0,3	2,1	4,0	6,7
On civil engineering works	1,2	-0,1	2,2	0,7	-1,4	-1,1	0,2	2,0

%

2 VOLUME OF CONSTRUCTION WORKS – YEAR-ON-YEAR GROWTH RATES CALCULATED ON BASIS OF WORKING-DAY ADJUSTED INDICES

	<u>X 2023</u> X 2022	<u>XI 2023</u> XI 2022	<u>XII 2023</u> XII 2022	<u> 2024</u> 2023	<u> </u>	<u>IV – VI 2023</u> IV – VI 2022	<u>VII – IX 2023</u> VII – IX 2022	<u>X – XII 2023</u> X – XII 2022
Total	7,8	6,8	10,3	14,3	3,9	3,2	5,2	8,3
On buildings	12,2	12,0	16,4	20,2	7,6	6,4	8,2	13,5
On civil engineering works	1,1	-1,2	-0,7	3,9	-2,0	-2,0	0,2	-0,2

%

II GROSS, NON-ADJUSTED INDICATORS

1 VOLUME OF CONSTRUCTION WORKS – MONTHLY AND QUARTERLY GROSS INDICES

	<u>X 2023</u> X 2022	<u>XI 2023</u> XI 2022	<u>XII 2023</u> XII 2022	<u>I 2024</u> I 2023	<u>I 2024</u> XII 2023	<u>I 2024</u> Ø 2023	<u>I – III 2023</u> I – III 2022	<u>IV – VI 2023</u> IV – VI 2022	<u>VII – IX 2023</u> VII – IX 2022	<u>X – XII 2023</u> X – XII 2022	<u>X – XII 2023</u> VII – IX 2023	<u>I – XII 2023</u> I – XII 2022
Total	111,5	110,5	103,1	118,2	118,7	109,6	105,0	102,2	105,1	108,5	102,9	105,1
On buildings	115,8	115,5	109,3	124,1	122,5	115,9	108,6	105,3	108,1	113,6	104,7	108,9
On civil engineering works	104,5	102,2	93,0	107,4	111,2	98,2	99,0	97,0	100,1	100,0	99,7	99,0

III TIME SERIES OF VOLUME INDICES OF CONSTRUCTION WORKS

1 MONTHLY VOLUME INDICES OF CONSTRUCTION WORKS

Ø 2021 = 100

			T	otal			On buildings				On civil engineering works			
		Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices	Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices	Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices	
2022 ¹⁾	I	94,3	96,6	101,6	101,7	97,0	99,2	101,2	101,5	90,1	92,3	102,8	102,3	
	Ш	102,1	102,9	102,5	102,3	104,3	104,9	102,7	102,2	98,7	99,5	103,2	102,7	
	Ш	117,0	112,9	102,9	102,9	118,5	114,6	102,8	103,2	114,7	110,7	103,6	102,8	
	IV	105,8	108,1	104,0	103,4	107,4	109,5	105,2	104,2	103,4	105,6	102,7	102,4	
	V	109,3	107,3	103,6	103,8	110,6	108,7	104,6	105,2	107,3	105,3	101,6	101,6	
	VI	105,4	105,4	104,1	104,1	107,6	107,6	106,3	106,0	102,0	102,0	100,4	100,7	
	VII	102,6	106,6	103,9	104,4	104,2	108,0	106,5	106,8	100,2	104,0	98,5	100,0	
	VIII	96,0	95,1	104,9	104,8	97,2	96,3	107,7	107,6	94,1	93,3	100,1	99,8	
	IX	108,9	106,8	105,2	105,2	111,5	109,5	108,9	108,4	104,9	102,9	99,4	99,9	
	х	104,6	108,7	105,3	105,7	106,1	110,0	108,4	109,0	102,3	106,2	99,9	100,3	
	XI	103,9	103,9	106,7	106,0	105,9	105,9	109,5	109,4	101,0	101,0	102,1	100,8	
	XII	98,0	97,0	107,5	106,1	99,7	98,8	110,8	109,6	95,2	94,3	104,3	101,0	
2023 ¹⁾	I.	101,4	100,5	105,3	106,1	107,7	106,8	108,8	109,8	91,6	90,8	100,4	100,9	
	П	106,6	107,4	106,4	106,2	112,6	113,2	110,4	110,0	97,3	98,1	101,2	100,6	
	Ш	121,1	116,9	106,4	106,4	127,2	123,1	110,4	110,5	111,5	107,6	100,4	100,3	
	IV	103,9	109,7	106,0	106,8	108,4	114,0	109,8	111,2	96,9	102,2	99,3	99,9	
	V	113,8	111,7	107,8	107,4	119,8	117,8	113,3	112,2	104,4	102,5	99,1	99,6	
	VI	109,8	109,7	108,4	108,3	114,8	114,7	113,2	113,4	102,0	102,0	100,3	99,6	
	VII	108,2	112,4	109,7	109,2	113,1	117,2	115,6	114,9	100,5	104,4	99,4	99,6	
	VIII	103,6	99,3	110,0	110,4	107,7	103,5	115,9	116,6	97,3	93,2	100,1	99,9	
	IX	111,3	112,9	111,5	111,8	117,4	119,0	118,3	118,9	101,8	103,2	100,0	100,4	
	Х	116,7	117,2	113,6	113,5	122,9	123,4	121,8	121,5	106,9	107,4	101,1	101,1	
	XI	114,8	111,1	114,4	115,3	122,3	118,6	122,9	124,4	103,1	99,8	101,0	101,8	
	XII	101,0	107,0	117,7	117,3	109,0	115,0	128,4	127,1	88,5	93,7	103,2	102,6	
2024	I	119,9	114,8	119,8	119,0	133,6	128,4	130,7	129,5	98,4	94,3	104,0	103,3	

1) Final data.

2 QUARTERLY VOLUME INDICES OF CONSTRUCTION WORKS

Ø 2021 = 100

			Т	otal		On buildings				On civil engineering works			
		Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices	Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices	Gross indices	Working- day adjusted indices	Seasonally and working-day adjusted indices	Trend indices
2022 ¹⁾	1 – 111	104,5	104,1	102,3	102,3	106,6	106,3	102,2	102,3	101,2	100,8	103,2	102,6
	IV – VI	106,9	106,9	103,9	103,8	108,5	108,6	105,3	105,1	104,2	104,3	101,6	101,6
	VII – IX	102,5	102,9	104,7	104,8	104,3	104,6	107,7	107,6	99,7	100,1	99,3	99,9
	X – XII	102,2	103,2	106,5	105,9	103,9	104,9	109,6	109,3	99,5	100,5	102,1	100,7
2023 ¹⁾	1 – 111	109,7	108,3	106,0	106,2	115,8	114,4	109,9	110,1	100,2	98,9	100,7	100,6
	IV – VI	109,2	110,4	107,4	107,5	114,3	115,5	112,1	112,2	101,1	102,2	99,6	99,7
	VII – IX	107,7	108,2	110,4	110,5	112,7	113,2	116,6	116,8	99,8	100,3	99,8	100,0
	X – XII	110,8	111,8	115,2	115,4	118,1	119,0	124,4	124,3	99,5	100,3	101,8	101,8

1) Final data.

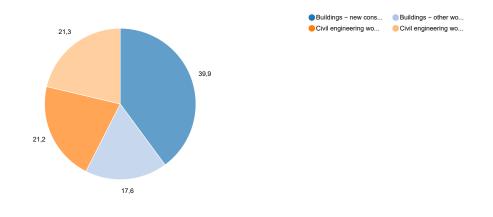
IV COMPOSITION OF HOURS WORKED ON SITES, BY TYPES OF CONSTRUCTIONS AND TYPES OF WORKS

	I 2024						
	Total	New constructions	Other works ¹⁾				
Total	100,0	61,1	38,9				
On buildings	57,5	39,9	17,6				
On civil engineering works	42,5	21,2	21,3				

%

1) Reconstructions, repair works and maintenance of existing constructions.

G-2 COMPOSITION OF HOURS WORKED ON SITES, BY TYPES OF CONSTRUCTIONS AND TYPES OF WORKS, JANUARY 2024



NOTES ON METHODOLOGY

Time series of volume indices of construction works were recalculated to the new base year (Ø 2021 = 100) starting with January 2000, and are available on the website of the Croatian Bureau of Statistics in the STS Database (the database of short-term statistics) at https://stsbaza.dzs.hr/en/.

The Croatian Bureau of Statistics submits data on volume indices of construction works to the Eurostat on a monthly basis. The data are comparable with indicators of other EU Member States and available on Eurostat's website http://ec.europa.eu/eurostat.

Sources and methods of data collection

Presented data on construction are collected through the reporting method on form entitled the Monthly Report on Construction (GRAD-21/M form).

Coverage and comparability

The monthly report on construction is collected from business entities (legal entities and tradesmen) and parts thereof employing 20 or more persons classified according to the NKD 2007 (NN, No. 58/07) into section F Construction in the Statistical Business Register.

Data refer to all construction works (new constructions and reconstructions, maintenance and repair works on existing constructions) done on the territory of the Republic of Croatia. Constructions and works are classified according to the Classification of Types of Constructions – KVG.

The methodology for this survey is based on Regulation (EU) 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, repealing 10 legal acts in the field of business statistics, and Commission Implementing Regulation (EU) 2020/1197 of 30 July 2020 laying down technical specifications and arrangements pursuant to Regulation (EU) 2019/2152 of the European Parliament and of the Council on European business statistics repealing 10 legal acts in the field of business statistics repealing 10 legal acts in the field of business statistics.

Index calculation method

The volume indices of construction works are based on the number of hours worked on sites adjusted with a productivity factor. The productivity factor is estimated from a deflated value of works and working hours done on an annual basis, separately for buildings and for civil engineering works. The fluctuation of individual values of the productivity factor is alleviated by using the exponential smoothing of the time series. After the calculation of indices for buildings and for civil engineering works, the next phase includes the calculation of the index for total construction indirectly by aggregating these two semi-indices by applying the Laspeyres' formula. Weights are defined according to the share of the value added from section F – Construction, taking into account the production factors' costs from structural business statistics in the base year.

Since the productivity factor is estimated at the annual level on the basis of data from the previous year, data for the whole reference year will be issued as provisional results. After the calculation of the actual productivity for the reference year is done, final results will be issued.

Presentation of indices

Presentation and interpretation of volume indices of construction works are in line with Eurostat's requirements for the presentation of short-term business indicators and with the Regulation (EU) 2019/2152 of the European Parliament and of the Council.

The movements of the volume indices of construction works are presented and interpreted in relation to growth rates calculated on the basis of seasonally and workingday adjusted indices. Seasonally adjusted indices are used for the monthly comparison of movements of the volume indices of construction works and workingday adjusted indices for the annual comparison.

Seasonal and working-day adjustment method

Seasonal and working-day adjustment has been done by using the X13 ARIMA method on a monthly index series (Ø 2021 = 100), which starts with January 2000 index. The effect of a random component in the seasonal adjustment process of time series of indices has been excluded. Calculated series of volume indices of construction works are comparable to those published by Eurostat.

Due to the character of the implemented seasonal adjustment method, the extension of the index series by adding new monthly observations for each new month could cause subsequent corrections of the already published seasonally and working-day adjusted indices and trend for several previous months.

Notice concerning the terminology used

In Croatian language, the term "kalendarsko prilagođavanje" (calendar adjustment) is not the literal translation of the term "working-day adjustment" in English, which means "adjustment for the number of working days". It is used in order to prevent misunderstandings by national users.

The term "working-day adjustment" in short-term business statistics actually refers to calendar adjustment, but due to specific Eurostat's requirements for short-term statistics, the term "working-day adjustment" is used instead.

Seasonally and working-day adjusted indices

The term "seasonally and working-day adjusted indices" is used to indicate that gross indices are adjusted for both seasonal and working-day effects. In line with Eurostat's requirements for short-term business indicators, the data that are compared to those of the previous month (that is, monthly comparison) are presented in a seasonally and working-day adjusted form of the volume indices of construction works or growth rates calculated from them.

Month-on-month growth rates of the volume of construction works (First Release, part I, table 1) calculated on the basis of seasonally and working-day adjusted indices (the comparison between the indices of the current reporting month with the indices of the previous reporting month) are presented and interpreted in the monthly comparison, in line with what is mentioned above.

Working-day adjusted indices

The term "working-day adjusted indices" is used to indicate that gross indices are adjusted only for working-day effects in line with Eurostat's requirements for short-term business indicators, while data compared to those of the same month of the previous year (that is, annual comparison) are presented in a working-day adjusted form of volume indices of construction works or growth rates calculated from them.

Year-on-year growth rates of the volume of construction works (First Release, part I, table 2) calculated on the basis of working-day adjusted indices (comparison between indices of the reporting month with the indices of the same reporting month of the previous year) are presented and interpreted in the annual comparison, in line with what is mentioned above.

Gross indices

In order to sustain the consistency and continuity with the previously released data, indices continue to be presented as gross, unadjusted indices in the same way as before, but they are not commented in particular (First Release, part II, table 1).

Abbreviations

EU	European Union
Eurostat	Statistical Office of the European Union
NKD 2007	National Classification of Activities, 2007 version
NN	Narodne novine, official gazette of the Republic of Croatia

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