

Statistical survey on constructions on which construction activities were performed by business entities, for buildings, civil engineering and hydraulic engineering

BS\_GRAD.11\_A\_EN\_2024\_1

Reference Metadata in SIMS 2.0 structure

<b>S.1</b>	<b>Contact</b>
<b>S.1.1</b>	<b>Contact organisation</b>
State Statistical Office	
<b>S.1.2</b>	<b>Contact organisation unit</b>
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<b>S.2</b>	<b>Metadata update</b>
<b>S.2.1</b>	<b>Metadata last certified</b>
10/06/2025	
<b>S.2.2</b>	<b>Metadata last posted</b>
10/06/2025	

<b>S.2.3</b>	<b>Metadata last update</b>
10/06/2025	
<b>S.3</b>	<b>Statistical presentation</b>
<b>S.3.1</b>	<b>Data description</b>
Data for residential and non-residential buildings (value of completed construction works by type of structures - buildings and civil engineering structures, number of finished dwellings in housing units, useful surface area of the dwellings in m2). For the structures data is obtained for the type of the construction works, whether it is newly built, alteration, or adaptation, sanation or reconstruction of the objects, and also for the type of ownership of the objects.	
<b>S.3.2</b>	<b>Classification system</b>
National Classification of Activities - NKD Rev.2; Nomenclature of type of construction and construction works - NGOGR; Nomenclature of Territorial Units for Statistics - NTES, 2013.	
<b>S.3.3</b>	<b>Sector coverage</b>
Section F - Construction, according to the NKD Rev.2.	
<b>S.3.4</b>	<b>Statistical concepts and definitions</b>
<p>Construction is any separated, freestanding functional structure (subterranean, surface and hydraulic construction), whose purpose is determined in advance and it is located in a specific area. According to the type, constructions as a part of construction activity are classified into: - Building constructions - Civil engineering works (constructions) Building construction comprises building of constructions which are mainly above the ground surface and that are built in height. This group includes all residential and business buildings, and all the buildings that are auxiliary to the civil engineering and hydraulic engineering constructions (terminal buildings, airport buildings, transformer stations, harbor terminals, silos, etc.). Civil engineering comprises building of constructions that are mainly located on the surface or underground. This group includes constructions such as: roads, railways, bridges, tunnels, etc. Building unit is any independent structure constructed above ground, with fundaments, enclosed with external walls and covered by a roof, whether designed for residential or for agricultural, commercial, industrial or cultural purposes or for the provision of services. For the structures data is obtained for the type of the construction works, whether it is newly built, alteration, or adaptation, sanation or reconstruction of the objects, and also for the type of ownership of the objects. - The value of completed construction works is the invoiced value without VAT of the realised construction works during the reference period.</p>	
<b>S.3.5</b>	<b>Statistical unit</b>
The statistical unit are the business entities that, according to their economic activities, belong in the sector F (Construction) in the NACE Rev. 2 Classification, and also other business entities that are registered in other sector but they have completed some construction works.	
<b>S.3.6</b>	<b>Statistical population</b>
Statistical population are the structures on which construction activities are performed during the reference year.	
<b>S.3.7</b>	<b>Reference area</b>

<ul style="list-style-type: none"> <li>- NUTS 1 and 2 (Republic of North Macedonia)</li> <li>- NUTS 3 (Statistical Regions)</li> <li>- NUTS 4 (Municipalities)</li> </ul>	
<b>S.3.8</b>	<b>Time coverage</b>
From January 1952 onwards, and there is no break in the time series of the data.	
<b>S.3.9</b>	<b>Base period</b>
2023 = 100	
<b>S.4</b>	<b>Unit of measure</b>
Number, m2, %, thousand denars.	
<b>S.5</b>	<b>Reference period</b>
Year.	
<b>S.6</b>	<b>Institutional mandate</b>
<b>S.6.1</b>	<b>Legal acts and other agreements</b>
<p>NATIONAL LEGISLATION</p> <p>Law on State Statistics ("Official Gazette of the Republic of Macedonia" No. 54/1997, 21/2007, 51/2011, 104/2013, 42/2014, 192/2015, 27/16, 83/18, 220/18 and "Official Gazette of the Republic of North Macedonia" No. 31/20) ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> )</p> <p>Programme of Statistical Surveys 2023-2027 ("Official Gazette of the Republic of North Macedonia" No. 29/23 and 57/25) ( <a href="https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/">https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/</a> )</p>	
<b>S.6.2</b>	<b>Data sharing</b>
Not applicable, data are not shared and/or transmitted.	
<b>S.7</b>	<b>Confidentiality</b>
<b>S.7.1</b>	<b>Confidentiality - policy</b>
<p>1. The protection of individual data is regulated by the Law on State Statistics ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> ).</p> <p>2. The basic principles and activities undertaken to ensure data confidentiality are described in the Policy on Statistical Confidentiality ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/">https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/</a> ).</p>	
<b>S.7.2</b>	<b>Confidentiality - data treatment</b>
Pursuant to Article 38 of the Law on State Statistics ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> ) and the Policy on Statistical Confidentiality ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/">https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/</a> ),	

individual data are not published. However, if access is granted to microdata from the relevant survey, then the methods used to prevent data disclosure should be specified.

## **S.8 Release policy**

### **S.8.1 Release calendar**

Data are released in accordance with the Release Calendar, which is updated on a quarterly level.

### **S.8.2 Release calendar access**

<https://www.stat.mk/en/publishing-calendar/#/>

### **S.8.3 User access**

All users have equal access to statistics at the same time: this means that the publication dates are announced in advance and no user has access to official statistics before they are published. Statistical data are first published in the "News Releases" edition on the website of the State Statistical Office at 12:00.

## **S.9 Frequency of dissemination**

Yearly.

## **S.10 Accessibility and clarity**

### **S.10.1 News release**

News Releases are published and they are available on the website of the SSO in the section: "News Releases" ( <https://www.stat.mk/en/all-new-releases> ).

Number of views of the news release is 123.

### **S.10.2 Publications**

Statistical Yearbook (link: [https://www.stat.gov.mk/PrikaziPublikacija\\_1\\_en.aspx?rbr=915](https://www.stat.gov.mk/PrikaziPublikacija_1_en.aspx?rbr=915) )

North Macedonia in figures: <https://www.stat.mk/en/all-publications/north-macedonia-in-figures-2024/north-macedonia-in-figures-2024/>

Regions of North Macedonia: <https://www.stat.mk/en/all-publications/regions-of-north-macedonia-2024/regions-of-north-macedonia-2024/>

Makstat Selection:

<https://www.stat.mk/en/all-publications/makstat-selection-2024/makstat-selection-2024/>

### **S.10.3 On-line database**

MAKStat database is available on the SSO web site.

<https://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/>

Number of table views from MAKStat database is 875.

#### **S.10.3.1 AC1. Data tables - consultations**

Number of table views from MAKStat database is 875.

### **S.10.4 Micro-data access**

The use of microdata by external users is possible only for research purposes and is done in accordance with the Law on State Statistics (Article 41, Article 42 and Article 43). Access to anonymised microdata is defined by an internal procedure of the State Statistical Office "Access to anonymised microdata for scientific research purposes" ( <https://www.stat.mk/en/about-us/procedures/rules-for-access-to-anonymised-microdata-for-research-purposes/> ).

### **S.10.5 Other**

At the request of users, data are also prepared in a form according to their needs.

#### **S.10.5.1 AC 2. Metadata - consultations**

Not calculated.

### **S.10.6 Documentation on methodology**

Methodological explanations are released on the SSO web site.

[http://www.stat.gov.mk/MetodoloskiObjasSoop\\_en.aspx?id=56&rbrObl=20](http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=56&rbrObl=20) .

#### **S.10.6.1 AC 3. Metadata completeness - rate**

Not calculated.

### **S.10.7 Quality documentation**

[http://www.stat.gov.mk/Meta\\_godini\\_en.aspx](http://www.stat.gov.mk/Meta_godini_en.aspx)

## **S.11 Quality management**

### **S.11.1 Quality assurance**

The quality of the processes and products in the State Statistical Office is ensured by adhering to the European Statistics Code of Practice ( <https://www.stat.mk/en/about-us/quality/code-of-practice/> ) and the Quality Assurance Framework within the European Statistical System (ESS Quality Assurance Framework – <https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf> ). The

quality criteria are also determined in the Law on State Statistics in Article 4b and Article 4c (<https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/> ).

### **S.11.2 Quality assessment**

The State Statistical Office carries out statistical activities in accordance with the Statistical Business Process Model, which is based on the international model - Generic Statistical Business Process Model (GSBPM). The application of this model and international standards in statistical production ensures a high level of accuracy and comparability of data.

## **S.12 Relevance**

### **S.12.1 User needs**

Data for the completed construction works and number of finished dwellings are used by the Government, Economic Chamber, business subjects, International organisations. The external users are using: - the indicators for the completed construction works and number of finished dwellings are an important indicator for the economy and monetary police and also are indicator for future investments in construction sector; - the Economic Chambers, scientific researchers, business subjects and other various users that have needs for the short-term statistics for their's policy creation.

### **S.12.2 User satisfaction**

Starting from 2009 the State Statistical Office conducts a User Satisfaction Survey every 3rd year.

### **S.12.3 Completeness and R1. Data completeness - rate for U**

All levels of data agregation for the completed constructions data are calculated and published on national level.

#### **S.12.3.1 R1. Data completeness - rate for P**

Not calculated.

## **S.13 Accuracy and reliability**

### **S.13.1 Overall accuracy**

The methodology of the Survey and data collection type ensures accuracy and coverage of data.

### **S.13.2 Sampling error and A1. Sampling errors - indicators for U**

The survey is not conducted with random sample and there is no calculation of sampling errors.

#### **S.13.2.1 A1. Sampling errors - indicators for P**

Not applicable.

### **S.13.3 Non-sampling error and A4. Unit non-response - rate for U and A5. Item non-response - rate for U**

Measurrement errors: Data respondents are informed for the survey by sending an informational letter. Collected data are controled in the central statistical office. Data editing errors: Data entering is done with manually data entering in appropriate application for which

activity are engaged data entry staff. While data entering implemented are rules for automatic controls, and also additional control after finishing of data entering. If there is any higher data inconsistency the reporting units are contacted, and for some items an imputation is made by sequential hot deck method (automatic data imputation) or method of expert imputation (manually data imputation). Non - response errors: The unit non-response rate is 11.2%.	
<b>S.13.3.1</b>	<b>Coverage error</b>
Not calculated.	
<b>S.13.3.1.1</b>	<b>A2. Over-coverage - rate</b>
Not calculated.	
<b>S.13.3.1.2</b>	<b>A3. Common units - proportion</b>
proportion of common units = 0%	
<b>S.13.3.2</b>	<b>Measurement error</b>
No data errors while collection of data. The differences in the values of the collected data with the real one are processed in line, and there is no measurement of the one.	
<b>S.13.3.3</b>	<b>Non response error</b>
<p>This statistical survey has 92.5% unit response.</p> <p>In the process of non-response evaluation there is no breakdown of the non-responses in subcategories (refuses, not contacted, not at home, not found, lost shedule).</p> <p>The previous data for the units that haven't given response are used for comparison for bias redusement because of non-response.</p> <p>Rate of item non-response is not calculated.</p> <p>The efects of unit non-response and item non-response on the published data after the quality measurement is done shows that no bias exists.</p>	
<b>S.13.3.3.1</b>	<b>A4. Unit non-response - rate</b>
Unit non-response is 7.5%.	
<b>S.13.3.3.2</b>	<b>A5. Item non-response - rate</b>
Not calculated.	
<b>S.13.3.4</b>	<b>Processing error</b>
No processing error is calculated while data processing	
<b>S.13.3.5</b>	<b>Model assumption error</b>
Not applicable.	
<b>S.14</b>	<b>Timeliness and punctuality</b>
<b>S.14.1</b>	<b>Timeliness and TP2. Time lag - final results for U</b>
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<b>S.14.1.1</b>	<b>TP1. Time lag - first results for P</b>
<b>S.14.1.2</b>	<b>TP2. Time lag - final results for P</b>
<b>S.14.2</b>	<b>Punctuality and TP3. Punctuality - delivery and publication for U</b>
Data are disseminated within the established deadlines in accordance with the Release Calendar.	
Time lag of publication of the release (average yearly) = 0 days.	
<b>S.14.2.1</b>	<b>TP3. Punctuality - delivery and publication for P</b>
<b>S.15</b>	<b>Coherence and comparability</b>
<b>S.15.1</b>	<b>Comparability - geographical</b>
There is geographical comparability of the released data at national NUTS Level 1 and 2, and on regional level NUTS 3 level.	
<b>S.15.1.1</b>	<b>CC1.Asymmetry for mirror flow statistics - coefficient</b>
Not applicable	
<b>S.15.2</b>	<b>Comparability - over time and CC2. Length of comparable time series for U</b>
Time series from 1952 onwards and there is no break-up in the time series. The number of reference periods in the time series from the last break-up is 73.	
<b>S.15.2.1</b>	<b>CC2. Length of comparable time series for P</b>
Time series from 1952 onwards and there is no break-up in the time series. The number of reference periods in the time series from the last break-up is 73.	
<b>S.15.3</b>	<b>Coherence - cross domain</b>
"Comparisons are made on a micro level with the data from the survey ""Monthly report on the value of completed and contracted construction works, total number of employees and effective worked hours"". Data are coherent."	
<b>S.15.3.1</b>	<b>Coherence - sub annual and annual statistics</b>
Not applicable	
<b>S.15.3.2</b>	<b>Coherence - National Accounts</b>
Not applicable	
<b>S.15.4</b>	<b>Coherence - internal</b>
Internal coherence of data is ensured, data are controlled and analysed while processing.	
<b>S.16</b>	<b>Cost and burden</b>
Not applicable	



<b>S.17</b>	<b>Data revision</b>
<b>S.17.1</b>	<b>Data revision - policy</b>
Data revision is made in accordance with the Statistical Data Revision Policy of the SSO: ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/data-revision/">https://www.stat.mk/en/about-us/policies-and-strategies/data-revision/</a> ).	
<b>S.17.2</b>	<b>Data revision - practice and A6. Data revision - average size for U</b>
Not applicable, there is no revision of the data in this survey.	
<b>S.17.2.1</b>	<b>A6. Data revision - average size for P</b>
Not applicable	
<b>S.18</b>	<b>Statistical processing</b>
<b>S.18.1</b>	<b>Source data</b>
<p>"This statistical survey is a sample survey. The sample is taken from the monthly survey "Monthly report on the value of completed and contracted construction works, total number of employees and effective worked hours" (GRAD 21) and included are all the business entities that have performed construction activity in the reference year. The sample is revised every year. The sample for 2024 comprises of 146 business entities.</p>	
<b>S.18.2</b>	<b>Frequency of data collection</b>
Yearly.	
<b>S.18.3</b>	<b>Data collection</b>
"Data collection from the business entities is done with non-random sample, with method of self-fulfilling the ""Annual report on constructions built by business entities" (GRAD.11) and the Control sheet for the "Annual report on constructions built by business entities".	
<b>S.18.4</b>	<b>Data validation</b>
Data are controlled according to the defined rules for logical controls. Data validation is done after the data withdrawn. Data are checked from the available documentation supplied while registering for a building permit. Data validation is also done on the output data before their publishing.	
<b>S.18.5</b>	<b>Data compilation</b>

Editing: Data are collected annually. Afterwards data are controlled, with logical controls, imputations of missing values, and then data are entered in appropriate application with implemented on-line data controls. Weighting: The output data are not weighted and no weights are calculated.

<b>S.18.5.1</b>	<b>A7. Imputation - rate</b>
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The rate of imputation is not calculated.

<b>S.18.6</b>	<b>Adjustment</b>
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Seasonal and working day adjustment are not implemented.

<b>S.18.6.1</b>	<b>Seasonal adjustment</b>
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Seasonal and working day adjustment are not implemented.

<b>S.19</b>	<b>Comment</b>
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<b>A.1</b>	<b>Annexes</b>
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