

Statistical survey for spent building materials and energy

BS_GRAD.13_A_EN_2024_1

Reference Metadata in SIMS 2.0 structure

S.1	Contact
S.1.1	Contact organisation
State Statistical Office	
S.1.2	Contact organisation unit
Department for industry,costruction and bussines tendencies	
S.1.3	Contact name
Natasha Cenova	
S.1.4	Contact person function
Advisor.	
S.1.5	Contact mail address
Dame Gruev 4, 1000 Skopje, Republic of North Macedonia	
S.1.6	Contact email address
natasa.cenova@stat.gov.mk	
S.1.7	Contact phone number
00389 2 3295 663	
S.1.8	Contact fax number
00389 2 3111336	
S.2	Metadata update
S.2.1	Metadata last certified
12/06/2025	
S.2.2	Metadata last posted
12/06/2025	
S.2.3	Metadata last update
12/06/2025	

S.3	Statistical presentation
S.3.1	Data description
Value and quantity of spent building and power materials.	
S.3.2	Classification system
National Classification of Activities - NKD Rev.2;	
National nomenclature of industrial products - NNIP;	
S.3.3	Sector coverage
Section F - Construction, according to the NKD Rev.2.	
S.3.4	Statistical concepts and definitions
Spent building and power materials include the building material that is built in the construction by the business entities who were performing the activities, namely the whole spent power material and other material. Data for the types of material are according to the material book-keeping evidence.	
S.3.5	Statistical unit
The statistical unit are the business entities that, according to their economic activities, belong in the sector F (Construction) according in the NACE Rev. 2 Classification, and also other business entities that are registered in other sector but they have completed some construction works. Observational unit is every spent building and power material by the business entities, defined in GRAD.13 .	
S.3.6	Statistical population
The statistical unit are all the spent building and power material by the business entities, defined in GRAD.13 .	
S.3.7	Reference area
NUTS 1 and 2 (Republic of North Macedonia)	
S.3.8	Time coverage
From 1991.	
S.3.9	Base period
Not applicable.	
S.4	Unit of measure
Number, m2, kg, m3, tonnes, MWh, thousand denars, indices.	
S.5	Reference period
Year.	
S.6	Institutional mandate
S.6.1	Legal acts and other agreements

NATIONAL LEGISLATION

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) (<https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/>)

Programme of Statistical Surveys 2023-2027 ("Official Gazette of the Republic of North Macedonia" No. 29/23 and 57/25) (<https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/>)

S.6.2 Data sharing

Not applicable.

S.7 Confidentiality**S.7.1 Confidentiality - policy**

1. The protection of individual data is regulated by the Law on State Statistics (<https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/>).
2. The basic principles and activities undertaken to ensure data confidentiality are described in the Policy on Statistical Confidentiality (<https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/>).

S.7.2 Confidentiality - data treatment

Pursuant to Article 38 of the Law on State Statistics (<https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/>) and the Policy on Statistical Confidentiality (<https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/>), 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**

The date of data publication is determined in the Advance Release Calendar, which is updated quarterly.

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
<p>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).</p> <p>The number of views of the announcements is 72.</p>	
S.10.2	Publications
<p>The last publication:" Construction in the Republic of Macedonia ". https://www.stat.mk/en/all-publications/makstat-selection-2024/makstat-selection-2024/</p>	
S.10.3	On-line database
<p>MAKStat database - Construction</p> <p>https://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef</p> <p>Number of page views: 176</p>	
S.10.3.1	AC1. Data tables - consultations
<p>Number of page views: 275.</p>	
S.10.4	Micro-data access
<p>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/).</p>	
S.10.5	Other
<p>At the request of users, data are also prepared in a form according to their needs.</p>	
S.10.5.1	AC 2. Metadata - consultations
<p>Metadata views <15.</p>	
S.10.6	Documentation on methodology
<p>Methodological explanations are released on the SSO web site. http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=58&rbrObl=20</p>	
S.10.6.1	AC 3. Metadata completeness - rate
<p>Metadata coverage of statistical outputs = 88.9%</p> <p>Metadata coverage of statistical processes = 87.5%</p> <p>Metadata coverage of statistical quality = 64.7%</p>	
S.10.7	Quality documentation

Metadata views <15.	
S.11	Quality management
S.11.1	Quality assurance
<p>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/).</p>	
S.11.2	Quality assessment
<p>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.</p>	
S.12	Relevance
S.12.1	User needs
<p>Data are used for policy creation, for analyses in context of development of building technologies, for calculation of construction costs indices according to the method of structural values, control of the index of physical amount of the construction production, for calculation of input-output tables and for making energy balances. Also, data are used in another statistical surveys as an input for calculation of weighting coefficients (index of spent building materials).</p>	
S.12.2	User satisfaction
<p>Starting from 2009, the State Statistical Office conducts a User Satisfaction Survey every three years.</p>	
S.12.3	Completeness and R1. Data completeness - rate for U
Not calculated.	
S.12.3.1	R1. Data completeness - rate for P
Not calculated.	
S.13	Accuracy and reliability
S.13.1	Overall accuracy
<p>The survey methodology and the data collection method ensure good coverage and accuracy of the data.</p>	
S.13.2	Sampling error and A1. Sampling errors - indicators for U
<p>The survey is not conducted with random sample and there is no calculation of sampling errors.</p>	
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
<p>Measurement errors: Data respondents are informed for the survey by sending an informational letter. Collected data are controlled 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%.</p>	
S.13.3.1	Coverage error
Not calculated.	
S.13.3.1.1	A2. Over-coverage - rate
Not calculated.	
S.13.3.1.2	A3. Common units - proportion
Not calculated.	
Proportion of common units = 0%.	
S.13.3.2	Measurement error
There are no errors in data collection. Differences in the values of the collected and actual data are currently being processed and are not being measured.	
S.13.3.3	Non response error
<p>This statistical survey has 88.8% unit response.</p> <p>In the process of non-response evaluation there is no breakdown of the non-responses insubcategories (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 biasredusement because of non-response.</p> <p>Rate of item non-response is not calculated.</p> <p>The effects of unit non-response and item non-response on the published data after the qualitymeasurement is done shows that no bias exists.</p>	
S.13.3.3.1	A4. Unit non-response - rate
Non-response units = 11.2%	
S.13.3.3.2	A5. Item non-response - rate
Not calculated.	
S.13.3.4	Processing error
No processing error is calculated while data processing.	

S.13.3.5	Model assumption error
Not applicable.	
S.14	Timeliness and punctuality
S.14.1	Timeliness and TP2. Time lag - final results for U
T + 180.	
S.14.1.1	TP1. Time lag - first results for P
Time difference to first results = 0.	
S.14.1.2	TP2. Time lag - final results for P
Time difference until definitive results = 180.	
S.14.2	Punctuality and TP3. Punctuality - delivery and publication for U
The data are published on the day announced in the Advance Release Calendar.	
S.14.2.1	TP3. Punctuality - delivery and publication for P
Time difference between the announcement's publication = 0 days.	
S.15	Coherence and comparability
S.15.1	Comparability - geographical
Data are released at national level. The comparability is ensured on international level.	
S.15.1.1	CC1.Asymmetry for mirror flow statistics - coefficient
Not applicable.	
S.15.2	Comparability - over time and CC2. Length of comparable time series for U
Time series from 1991 onwards and there is no break-up in the time series. The number of reference periods in the time series is 32.	
S.15.2.1	CC2. Length of comparable time series for P
Length of comparable time series = 32 reference periods.	
S.15.3	Coherence - cross domain
Data are coherent between various parts of construction statistics. Coherence with other themes is partly ensured.	
S.15.3.1	Coherence - sub annual and annual statistics
Not applicable.	
S.15.3.2	Coherence - National Accounts
Not applicable.	
S.15.4	Coherence - internal
Internal coherence of data is ensured.	
S.16	Cost and burden

In the questionnaires we submit to the reporting units we have included the question of how long it takes to complete the questionnaire in order to reduce the burden on the reporting unit.	
S.17	Data revision
S.17.1	Data revision - policy
Data revision is made in accordance with the Statistical Data Revision Policy of the SSO: (https://www.stat.mk/en/about-us/policies-and-strategies/data-revision/).	
S.17.2	Data revision - practice and A6. Data revision - average size for U
Not applicable.	
S.17.2.1	A6. Data revision - average size for P
Number of data revisions = 0.	
S.18	Statistical processing
S.18.1	Source data
"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 2022 comprises of 141 business entities."	
S.18.2	Frequency of data collection
Yearly.	
S.18.3	Data collection
"Data collection from the business entities is done with method of self-fulfilling the ""Annual report on spent building and power material"" (GRAD.13). The business entities are fulfilling the paper questionnaire, and through the Regional statistical offices they deliver it to the State Statistical Office latest at T + 120."	
S.18.4	Data validation
Data are controlled according to the defined rules for logical controls. Data validation is done before and after data entering. For any deviation, the respondents of the survey units are contacted. Data validation is also done on the output data before their publishing.	
S.18.5	Data compilation
Editing: Data received from the business entities, after the control and if needed some corrections in consultation with the respondent units, are entered on electronic medium via application with implemented on-line data controls.	
Imputation: Expert imputation is performed.	
Weights: No data weighting.	
S.18.5.1	A7. Imputation - rate

The effects of non-response were not included.	
S.18.6	Adjustment
There is no seasonal adjustment performed.	
S.18.6.1	Seasonal adjustment
There is no seasonal adjustment performed.	
S.19	Comment
A.1	Annexes

