



stats sa

Department:
Statistics South Africa
REPUBLIC OF SOUTH AFRICA

Private Bag X44, Pretoria, 0001, South Africa, ISibalo House, Koch Street, Salvokop, Pretoria, 0002
www.statssa.gov.za, info@statssa.gov.za, Tel +27 12 310 8911

STATISTICAL RELEASE

P0151.1

Construction Material Price Indices

March 2023

**Embargoed until:
26 April 2023
12:00**

ENQUIRIES:
Evashnie Govender
(012) 336 0176

FORTHCOMING ISSUE:
April 2023

EXPECTED RELEASE DATE:
25 May 2023

Dipalopalo tsa Aforikaborwa • Dipalopalo tsa Aforika Borwa • Ezazibalo zaseNingizimu Afrika • Tshitatistika Afrika Tshipembe • Tinhlayo Afrika-Dzonga

Statistieke Suid-Afrika • Dipalopalo tša Aforika Borwa • Telubalo zaseNingizimu Afrika • EzeeNkcukacha maNani zoMzantsi Afrika • Iimbalobalo zeSewula Afrika

IMPROVING LIVES THROUGH DATA ECOSYSTEMS



CONTENTS

KEY FINDINGS..... 2

 Table 1: Contract price adjustment provisions (CPAP) work group indices 2

 Tables 2 and 3: Construction input price index (CIPI) 2

 Table 4: Mining and construction plant and equipment price indices..... 2

 Table 5: Mechanical and electrical engineering input price indices 2

 Table 6: Civil engineering material price indices..... 2

DETAILED RESULTS..... 3

 Table 1 - Contract price adjustment provisions (CPAP) work group indices..... 3

 Table 2 - Construction input price index (CIPI): material purchases by type of service 5

 Table 3 - Construction input price index (CIPI): material purchases for the whole industry 6

 Table 4 - Mining and construction plant and equipment price indices 7

 Table 5 - Mechanical and electrical engineering input price indices 7

 Table 6 - Civil engineering material price indices 7

GLOSSARY 8

ABBREVIATIONS 8

GENERAL INFORMATION 9

KEY FINDINGS

Table 1: Contract price adjustment provisions (CPAP) work group indices

Noteworthy month-on-month changes in March 2023 were as follows:

Work group 141 – stainless steel work: the index increased by 8,2%. There was a change of 34,7% in the SEIFSA index for stainless steel flat products cold rolled 316b (accounting for 25,0% of this work group).

Work group 148 – plumbing: the index increased by 4,5%. There were changes of 12,5% in the PPI for non-structural ceramic ware (accounting for 20,0% of this work group) and 34,7% in the SEIFSA index for stainless steel flat products cold rolled 316b (accounting for 5,0% of this work group).

Work group 124 – metal roofing (steel): the index increased by 3,5%. There was a change of 3,9% in the SEIFSA index for galvanised sheets (accounting for 85,0% of this work group).

Work group 162 – electrical reticulation: the index increased by 3,3%. There were changes of 3,9% in the SEIFSA index for copper 7.9 mm rod (accounting for 45,0% of this work group), 3,3% in the SEIFSA index for aluminium products 99.7 EC grade rod (accounting for 25,0% of this work group) and 3,9% in the SEIFSA index for galvanised sheets (accounting for 20,0% of this work group).

Work group 110 – concrete (excluding formwork): the index decreased by 2,5%. There was a change of -6,1% in the PPI for cement (accounting for 45,0% of this work group).

Work group 140 – aluminium work: the index decreased by 2,8%. There was a change of -5,2% in the PPI for aluminium products (accounting for 60,0% of this work group).

Tables 2 and 3: Construction input price index (CIPI)

The annual change in the index for total construction was 9,1% in March 2023. The index increased by 0,8% month-on-month.

The following indices recorded noteworthy month-on-month changes: electrical components (8,4%), ready-mix concrete (6,3%), paints (3,8%), builders' carpentry of wood (3,5%), adhesive and sealant (3,2%), bituminous mixtures (3,2%) and cement (-6,0%).

Table 4: Mining and construction plant and equipment price indices

The annual change in the index for plant and equipment was 6,9% in March 2023. The index increased by 0,2% month-on-month.

Table 5: Mechanical and electrical engineering input price indices

The annual change in the index for mechanical engineering was 5,9% in March 2023. The index increased by 1,4% month-on-month.

The annual change in the index for electrical engineering was 6,5% in March 2023. The index increased by 1,3% month-on-month.

Table 6: Civil engineering material price indices

The annual change in the total index (civil engineering material) was 7,4% in March 2023. The index decreased by 0,8% month-on-month.

Risenga Maluleke
Statistician-General

DETAILED RESULTS

Table 1 - Contract price adjustment provisions (CPAP) work group indices

Base: Dec 2021=100

Year and month		102 Alterations	104 Earthworks	106 Piling	110 Concrete (excluding formwork)	111 Formwork	112 Precast concrete	113 Post tensioning	114 Reinforce- ment
2022	Mar	101,8	104,2	104,6	104,8	101,1	102,4	105,3	102,5
	Apr	102,4	104,6	105,3	104,3	103,3	104,9	113,4	106,2
	May	103,1	105,1	106,7	105,8	104,0	106,5	113,6	111,6
	Jun	104,2	105,8	107,5	108,9	105,4	107,9	113,9	109,4
	Jul	105,8	107,4	108,4	109,7	105,8	108,1	114,3	108,2
	Aug	106,0	107,8	108,2	109,2	105,3	107,3	114,4	105,6
	Sep	106,1	108,1	108,4	109,5	105,4	107,4	114,4	105,4
	Oct	106,5	108,3	108,5	111,3	104,7	106,7	109,9	103,0
	Nov	106,8	108,8	108,3	110,1	104,8	106,2	110,0	101,6
	Dec	107,2	108,9	108,4	109,5	105,1	106,2	110,1	102,2
2023	Jan	107,1	110,4	111,0	115,2	105,0	108,0	110,0	101,8
	Feb	107,9	110,9	111,9	118,6	105,4	109,3	110,3	101,8
	Mar	109,0	111,6	111,6	115,6	106,6	109,0	111,9	101,8

Year and month		116 Brick and block work	118 Masonry	120 Water proofing	122 Non metal roofing	124 Metal roofing (steel)	125 Metal roofing (aluminium)	126 Carpentry and joinery	129 Ceilings
2022	Mar	100,8	98,3	105,2	105,0	100,2	116,7	102,2	106,6
	Apr	99,7	100,5	116,7	102,8	102,0	117,8	103,7	107,5
	May	102,4	100,2	119,7	104,7	102,1	120,4	104,1	109,8
	Jun	101,9	101,5	126,5	106,2	102,3	108,1	106,4	110,7
	Jul	103,1	102,3	131,7	107,9	103,3	106,0	106,1	112,0
	Aug	105,3	102,5	127,9	108,2	94,5	102,2	106,3	111,5
	Sep	102,7	103,7	124,1	109,5	94,5	105,7	106,5	111,4
	Oct	101,9	104,4	124,2	109,2	86,2	104,7	106,6	111,1
	Nov	102,9	104,5	122,5	108,3	86,3	107,1	107,0	113,7
	Dec	104,0	105,2	121,4	109,4	86,3	102,2	107,2	115,3
2023	Jan	105,4	106,9	119,5	110,3	86,3	107,4	106,8	115,7
	Feb	107,8	108,3	121,7	115,8	86,4	112,8	107,1	115,9
	Mar	107,9	111,5	125,2	113,5	89,4	116,3	108,3	115,1

Year and month		130 Resilient floor and wall coverings	132 Iron-mongery	134 Structural steelwork in buildings	136 Metalwork	138 Partitioning systems	140 Aluminium work	141 Stainless steel work	142 In situ finishes
2022	Mar	105,8	103,7	100,7	100,3	103,6	109,2	104,2	103,1
	Apr	106,0	103,8	105,5	107,2	106,0	110,9	107,3	103,2
	May	107,8	116,3	106,3	107,9	107,0	111,8	120,3	104,3
	Jun	108,1	120,5	106,8	108,3	109,0	111,3	117,1	106,4
	Jul	108,4	122,8	106,8	107,9	108,6	109,4	118,5	107,5
	Aug	108,5	122,8	105,2	105,9	108,7	109,5	113,5	107,4
	Sep	109,6	122,9	105,2	105,9	109,5	112,2	100,7	107,7
	Oct	109,7	122,9	103,1	102,6	109,3	112,4	101,0	108,7
	Nov	109,8	123,0	103,3	102,7	109,4	110,7	101,7	108,4
	Dec	109,9	123,1	103,5	102,8	109,6	110,8	103,8	108,2
2023	Jan	109,9	127,1	103,5	102,9	109,8	113,3	104,1	110,9
	Feb	110,1	127,3	103,9	103,1	110,1	113,6	102,4	113,0
	Mar	110,4	129,7	105,6	105,1	110,8	110,4	110,8	112,2

Table 1 - Contract price adjustment provisions (CPAP) work group indices (concluded)**Base: Dec 2021=100**

Year and month		144	146	148	149	150	152	154	160
		Tiling	Drainage	Plumbing	Aluminium shop fronts and pre-glazed windows	Glazing	Painting	Roadwork	Electrical installations
2022	Mar	101,0	102,5	103,0	104,4	100,7	102,0	104,5	102,8
	Apr	101,2	104,4	104,7	105,3	100,8	102,7	109,0	104,6
	May	101,5	104,8	107,9	105,8	100,9	103,9	110,4	104,1
	Jun	102,0	105,7	107,8	105,9	101,0	104,1	113,6	101,8
	Jul	103,6	106,2	108,2	105,5	101,1	105,7	116,6	100,8
	Aug	106,6	106,1	107,2	105,6	101,1	106,0	115,6	95,5
	Sep	105,1	106,3	104,7	108,0	104,3	106,7	114,0	96,4
	Oct	105,3	106,5	104,9	108,1	104,4	108,2	114,1	94,4
	Nov	105,4	106,7	105,2	107,0	103,3	108,5	113,7	94,7
	Dec	105,6	106,9	105,6	107,2	103,3	108,6	114,1	95,0
2023	Jan	105,5	107,0	105,8	109,0	105,2	108,6	116,0	97,4
	Feb	110,3	107,9	106,0	109,3	105,3	109,8	115,9	100,2
	Mar	111,0	108,8	110,8	108,2	105,4	112,1	117,4	102,7

Year and month		162	170	171	172	173	180	181	190
		Electrical reticulation	Mechanical services	Ductwork installations	Refrigeration installations	Steel water pipe installations	Lump sum domestic buildings	Commercial/ industrial buildings	Preliminaries
2022	Mar	105,1	103,3	100,0	100,8	105,5	102,5	103,2	104,3
	Apr	106,3	104,1	101,8	101,9	106,5	103,5	104,6	106,0
	May	106,9	104,7	101,9	101,9	109,1	105,1	106,1	107,3
	Jun	102,4	106,4	101,9	100,6	109,2	105,6	106,8	109,0
	Jul	100,7	108,0	103,9	101,2	111,2	106,4	107,5	112,3
	Aug	92,9	107,7	98,7	96,8	113,2	105,8	106,5	111,8
	Sep	95,6	108,3	98,6	98,5	108,2	105,3	106,4	111,5
	Oct	94,3	107,5	93,2	99,0	104,5	104,8	105,9	111,9
	Nov	95,6	107,7	93,2	99,7	106,3	105,1	106,1	113,5
	Dec	94,8	107,4	93,2	100,4	105,5	105,3	106,2	112,3
2023	Jan	98,8	110,1	93,2	101,8	108,8	106,3	107,3	110,9
	Feb	103,1	108,9	93,2	104,4	108,3	107,9	108,5	111,4
	Mar	106,5	110,5	95,0	106,3	109,8	108,9	109,6	112,3

Table 2 - Construction input price index (CIPI): material purchases by type of service

Service	Weight	Index (Dec 2021=100)			Percentage change	
		Mar 2022	Feb 2023	Mar 2023	Mar 2023 vs. Feb 2023	Mar 2023 vs. Mar 2022
Total construction	100,00	103,7	112,2	113,1	0,8	9,1
Site preparation	1,66	103,4	116,4	116,8	0,3	13,0
Civil engineering: Building of complete structures	63,96	103,8	112,4	113,1	0,6	9,0
Building installation	16,28	103,0	110,6	112,5	1,7	9,2
Building completion	15,96	103,3	113,8	115,2	1,2	11,5
Renting of construction or demolition equipment with operators	2,14	106,2	104,1	102,9	-1,2	-3,1

Table 3 - Construction input price index (CIPI): material purchases for the whole industry

Product	Weight	Index (Dec 2021=100)			Percentage change	
		Mar 2022	Feb 2023	Mar 2023	Mar 2023 vs. Feb 2023	Mar 2023 vs. Mar 2022
Total construction	100,00	103,7	112,2	113,1	0,8	9,1
Construction stone and sand	4,86	101,2	113,6	115,1	1,3	13,7
Aggregate stone	3,47	102,6	113,8	114,5	0,6	11,6
Sand	0,42	102,6	123,1	123,1	0,0	20,0
Granite, sandstone and other monumental and building stone	0,97	95,4	108,7	113,7	4,6	19,2
Carpets (excluding mats and rugs)	2,05	100,0	118,3	118,3	0,0	18,3
Boards of wood	0,33	102,0	109,0	109,0	0,0	6,9
Builders' carpentry of wood	0,14	106,3	110,0	113,8	3,5	7,1
Paints	2,31	102,3	113,4	117,7	3,8	15,1
Construction tyres	0,36	105,6	128,1	126,8	-1,0	20,1
Construction pipes, tubes and fittings	5,00	103,5	108,0	108,5	0,5	4,8
Tubes, pipes, tube-fittings and pipe-fittings of copper	0,97	100,5	101,2	103,8	2,6	3,3
Concrete pipes	0,31	96,0	101,9	101,9	0,0	6,1
Construction plastic pipes, tubes and fittings	3,72	104,9	110,3	110,3	0,0	5,1
Adhesive and sealant	0,64	102,8	111,4	115,0	3,2	11,9
Vinyl sheeting and flooring	1,28	110,0	107,8	107,8	0,0	-2,0
Construction bricks and tiles	8,39	102,8	113,4	112,2	-1,1	9,1
Bricks	4,16	102,4	115,6	115,7	0,1	13,0
Tiles	4,23	103,2	111,1	108,8	-2,1	5,4
Cement	7,29	107,9	124,7	117,2	-6,0	8,6
Ready-mix concrete	9,91	103,1	109,8	116,7	6,3	13,2
Ceiling boards	0,93	107,9	119,8	118,8	-0,8	10,1
Roof sheeting	0,55	105,3	94,2	93,3	-1,0	-11,4
Pre-mix asphalt	3,89	105,7	113,5	113,5	0,0	7,4
Bituminous mixtures	3,26	106,8	128,3	132,4	3,2	24,0
Construction structural and reinforcing steel	26,27	103,0	107,3	107,7	0,4	4,6
Reinforcing metal work	9,44	102,7	99,8	99,4	-0,4	-3,2
Equipment for scaffolding, shuttering and propping	1,72	104,2	110,6	104,1	-5,9	-0,1
Welded angles, shapes and sections for use in manufactured structures	8,51	105,3	112,8	115,9	2,7	10,1
Steel door and window frames	6,60	100,0	110,0	110,0	0,0	10,0
Construction basic metal products	1,68	101,4	99,7	101,3	1,6	-0,1
Bars and rods of iron or steel	1,00	100,2	102,0	104,6	2,5	4,4
Angles, shapes, sections and similar products of iron or steel	0,44	100,3	91,1	91,2	0,1	-9,1
Wire of iron or steel	0,24	108,6	105,6	105,6	0,0	-2,8
Construction pumps, compressors and refrigerator machinery	0,65	104,1	117,2	117,2	0,0	12,6
Construction electric motors, generators or transformers	3,85	100,5	125,3	127,3	1,6	26,7
Electrical components	3,55	98,2	107,3	116,3	8,4	18,4
Electrical cable	5,79	106,0	110,8	110,8	0,0	4,5
Construction, distribution and control equipment	5,89	104,0	111,5	111,5	0,0	7,2
Nails, screws and metal fasteners	1,13	106,7	98,8	97,0	-1,8	-9,1

Table 4 - Mining and construction plant and equipment price indices

Product	Weight	Index (Dec 2021=100)			Percentage change	
		Mar 2022	Feb 2023	Mar 2023	Mar 2023 vs. Feb 2023	Mar 2023 vs. Mar 2022
Plant and equipment	100,00	106,7	113,9	114,1	0,2	6,9
Lifting and handling equipment and parts thereof	5,55	102,8	105,2	106,6	1,3	3,7
Machinery for mining, quarrying and construction and parts thereof	17,94	104,3	114,3	115,5	1,0	10,7
Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	11,78	104,2	111,6	112,3	0,6	7,8
Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	6,16	104,5	119,5	121,5	1,7	16,3
Lorries, trucks and vans exceeding 3,5 tons	76,51	107,5	114,4	114,4	0,0	6,4

Table 5 - Mechanical and electrical engineering input price indices

Service	Weight	Index (Dec 2021=100)			Percentage change	
		Mar 2022	Feb 2023	Mar 2023	Mar 2023 vs. Feb 2023	Mar 2023 vs. Mar 2022
Mechanical engineering	100,00	104,4	109,1	110,6	1,4	5,9
Electrical engineering	100,00	109,1	114,7	116,2	1,3	6,5

Table 6 - Civil engineering material price indices¹

Product	Index (Dec 2021=100)			Percentage change	
	Mar 2022	Feb 2023	Mar 2023	Mar 2023 vs. Feb 2023	Mar 2023 vs. Mar 2022
Civil engineering material - total	104,5	113,1	112,2	-0,8	7,4
Civil engineering material (excluding bitumen)	103,7	113,3	111,8	-1,3	7,8
Civil engineering material (excluding reinforcing metal work)	105,3	121,1	120,3	-0,7	14,2
Civil engineering material (excluding reinforcing metal work and bitumen)	104,5	115,7	113,4	-2,0	8,5
Civil engineering material - structures (excluding bitumen)	102,9	110,8	109,6	-1,1	6,5
Civil engineering material - roads, general	103,2	115,1	115,4	0,3	11,8
Civil engineering material - roads, general (excluding bitumen)	102,4	112,0	111,2	-0,7	8,6
Civil engineering material - roads, refurbishment	104,2	118,5	118,9	0,3	14,1
Civil engineering material - roads, refurbishment (excluding bitumen)	103,1	114,0	112,7	-1,1	9,3
Civil engineering material - roads, reseal	105,6	123,0	125,1	1,7	18,5
Civil engineering material - roads, reseal (excluding bitumen)	104,0	116,1	113,7	-2,1	9,3
Civil engineering material - bulk earthworks	103,7	114,1	113,0	-1,0	9,0
Civil engineering material - bulk earthworks (excluding bitumen)	103,4	113,1	111,7	-1,2	8,0

¹ The information in this table is published in conjunction with engineering associations SAFCEC and SAICE.

GLOSSARY

Construction Input Price Indices (CIPI)	The index reflects material purchases in the construction industry.
Contract Price Adjustment Provisions (CPAP)	The CPAP work group indices are used for making adjustments based on cost fluctuations in labour, plant and materials.
Contract Price Adjustment Provisions Steering Committee	The Committee is the oversight structure for the Construction Price Adjustment Provisions published by Statistics South Africa and comprises of representatives of the following industry associations and organisations: The Association of South African Quantity Surveyors, Electrical Contractors' Association (SA), Master Builders South Africa, the South African Institute of Architects, the National Department of Public Works and Statistics South Africa (Stats SA).
CPAP manuals	The updated CPAP manuals "CPAP Application Manual" and "CPAP Work Groups Composition and Weighting of Sub-Indices" are obtainable from The Association of the South African Quantity Surveyors – ASAQS, website: www.asaqs.co.za – search for CPAP, or by phoning (012) 310 8077.
Respondent response rate	The respondent response rate for March 2023 was 95,1%. The rate was calculated by means of the total number of companies where prices were collected as a percentage of the total sample.
Sources for CPAP	The CPAP work group indices are derived from changes in the cost structures prevailing in 37 different sectors of the building industry and are published by Stats SA on a monthly basis. The indices reported on in this publication are mainly based on a combination of PPI, SEIFSA and CPI indices for the particular month.
Tax	Value-added tax (VAT) are not included in these indices.
Weights	Weights are updated according to the availability of new information, as follows: <ul style="list-style-type: none"> • Tables 1 and 6 are updated periodically in consultation with industry expert committees. • Tables 2 and 3 are updated annually from Stats SA's supply and use tables, with effect from the January statistical release each year. • Tables 4 and 5 are updated periodically using Stats SA's construction large sample survey; these weights were last updated in January 2022.

ABBREVIATIONS

CIPI	Construction Input Price Indices
CPAP	Contract Price Adjustment Provisions
CPI	Consumer Price Index
PPI	Producer Price Index
r	Revised
SAFCEC	South African Forum of Civil Engineering Contractors
SAICE	South African Institution of Civil Engineering
SEIFSA	Steel and Engineering Industries Federation of Southern Africa

GENERAL INFORMATION

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

Advance release calendar

An advance release calendar is disseminated on www.statssa.gov.za

Forthcoming issues

Issue	Expected release date
April 2023	25 May 2023
May 2023	29 June 2023
June 2023	27 July 2023

Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
 National Library of South Africa, Cape Town Division
 Natal Society Library, Pietermaritzburg
 Library of Parliament, Cape Town
 Bloemfontein Public Library
 Johannesburg Public Library
 Eastern Cape Library Services, Qonce
 Central Regional Library, Polokwane
 Central Reference Library, Mbombela
 Central Reference Collection, Kimberley
 Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

Electronic services

A large range of data are available via on-line services. For more details about our electronic data services, contact (012) 310 8600.

You can visit us on the internet at: www.statssa.gov.za

Enquiries

Telephone number - technical enquiries	Evashnie Govender (012) 336 0176
Telephone number - other	(012) 310 8600 / 8390 / 8351 / 4892 / 8496 / 8095 (user information services)
Fax number	(012) 310 8332
Email address	evashnieg@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services) Enquiries in connection with contract price adjustment provisions should be directed, in writing, to Mr Hoffie Cruywagen (Hoffie.Cruywagen@up.ac.za).
Postal address	Private Bag X44, Pretoria, 0001

Produced by Stats SA