

TEST REPORT

Apollo Brick (Pty) Ltd
Attention: Mr G Makena
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Birchleigh
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Sample No : 704375
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File No : 2538/0064 I/MT19
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Page No : 1 of 3
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BURNT CLAY MASONRY UNITS
SANS 227: 2007
MARK No: 7663
PERMIT No: 12300

1 OBJECT OF THE TEST

- 1.1 Refer to the print on the back of this page.
- 1.2 To determine whether the sample received complies with the requirements of SANS 227: 2007 "Burnt Clay Masonry Units".

2 COCLUSION

- 2.1 The sample tested complies with the requirements of SANS 227: 2007 "Burnt Clay Masonry Units" with respect to 7 MPa class NFP. The uncertainty of measurement was applied to the results and the outcome of compliance remains the same.

3 SAMPLE DESCRIPTION

Sixty "NFP, 7 MPa production date 18/01/19" burnt clay masonry units with nominal dimensions 224 mm x 104 mm x 72 mm.



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T0026

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4 DATES

- 4.1 Date of sampling : 19 March 2019.
 4.2 Date of receipt : 26 March 2019.
 4.3 Date test started : 28 October 2019.
 4.4 Date test completed : 21 December 2019.

5 CONDITION OF SAMPLE

The sample was considered to be in suitable condition for testing.

6 NAME OF LABORATORY

Building Laboratory of SABS Commercial SOC Ltd

7 TEST RESULTS

Nature of Test (SANS 227 Clauses)	Results	Conclusion	Requirements
4.1.1 Shape	True to the appropriate acceptable pattern and rectangular faces	Complied	Shall be true to the appropriate acceptable pattern and rectangular faces
4.1.2 Appearance	Free from cracks, damage to the edges and corners	Complied	Shall be free from cracks, damage to edges and corners.
4.1.3 Texture and Colour	Uniform	Complied	Shall be uniform
4.2 Dimensions, mm			
Length	Min Max	N/A	No requirement
Individual	224 226		
Average	225	Complied	224 ± 3,5
Width	Min Max	N/A	No requirement
Individual	104 106		
Average	105	Complied	104 ± 2
Depth	Min Max	N/A	No requirement
Individual	71 74		
Average	73	Complied	72 ± 2

Continued from page 2

4.3 Warpage, mm	No warpage exceeds 5 mm.	Complied	Individual units shall not have a warpage exceeding 5 mm not more than 3 units shall have warpage of 3 mm.
4.4 Compressive strength, MPa		Complied	
Individual	30,4 23,7 20,6 19,7 26,5 35,6 23,7 21,4 29,7 25,3 29,7 28,6		≥ 5,5
Average	28,6		≥ 7,0
4.5 Efflorescence	Six units show slight degree of efflorescence.	Complied	Not more than ten units shall exhibit a moderate degree of efflorescence.
4.6 Soundness	No pop-outs were observed.	Complied	No pop out.
4.7 (a) Water absorption cold water absorption (%)		N/A	Agreed upon between the supplier and purchaser
Individual	15,7 17,1 14,3 17,3 15,9 16,0		
Average	16,0		
Boling water absorption			
Individual	21,7 21,6 20,0 22,8 22,0 21,1		
Average	21,1		
(c) Moisture expansion (%)			
After 24 hrs			
Individual	0,039 0,034 0,031 0,048 0,011 0,048 0,031 0,043 0,009		
Average	0,033		
After 96 hrs			
Individual	0,038 0,041 0,043 0,055 0,015 0,064 0,037 0,043 0,030		
Average	0,041		

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.

8 MARKINGS

Each consignment of units shall be accompanied by a dispatch note or a consignment note in which the following information is given:

- a) The manufacture's name or trade mark
- b) The class and the work size
- c) The nominal compressive strength of the units
- d) The grade of the units
- e) Whether the units are solid or hollow

9 EQUIPMENT INFORMATION

Equipment	Capacity	Serial No.	Cal Cert No.	UoM	Next Cal Date
Avery Denison compression	3000 kN	7123/33587-C	F13943	± 0,9 %	April 2020
Water bath (Thermometer)	110 °C	SA 1561/151	2020.TP.673604	± 0,3 %	July 2020
Measuring tape	10 000 mm	B1002	2020.D.672202	± 0,6 mm	July 2020
Pressure cooker	0 – 250 kPa	BC 005	15-7562	± 0,02 %	Nov 2020
Steel straight edge	1,2 m	4800/06	2020.8298-1	± 0,02 %	Oct 2020
Four steel measuring wedges	9 mm	1 – 4 /611/002	2020.9174-3	± 0,003 mm	Oct 2020

SR Mokoena
 Test Officer: Building Laboratory
 Technical Signatory

J Maswikaneng
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 Manager: Civil Testing

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