

TEST REPORT

Apollo Brick (Pty) Ltd

Attention: Mr G Makena

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Birchleigh

1621

Sample No : 767886
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File No : 2538/0243 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

The sample tested complies with the requirements of SANS 227:2007 "Burnt Clay Masonry Units" with respect to 14 MPa class NFX. "Where the addition of the measurement uncertainty to the calculated test results leads to an inconclusive statement of conformity, but the result is within the pass criteria of the specification, the outcome shall be stated as compliance"

3 SAMPLE DESCRIPTION

Sixty "NFX, 14 MPa production date 05/09/19" burnt clay masonry units with nominal dimensions 223 mm x 103 mm x 73 mm.



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T0026

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4 DATES

- 4.1 Date of sampling : 11 November 2019.
 4.2 Date of receipt : 18 November 2019.
 4.3 Date test started : 06 March 2020.
 4.4 Date test completed : 09 April 2020.

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 Average	224 226 225	Complied	223 ± 3,5
Width	Min Max	N/A	No requirement
Individual Average	104 106 105	Complied'	102 ± 2
Depth	Min Max	N/A	No requirement
Individual Average	71 74 73	Complied	73 ± 2

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.)

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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	38,7 38,8 34,2 39,0 39,6 34,2 37,9 36,8 34,8 39,4 38,8 39,1		≥ 10,5
Average	37,6		≥ 14,0
4.5 Efflorescence	Eight 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	9,1 6,8 13,4 9,4 10,5 10,9		
Average	10,0		
Boling water absorption			
Individual	15,0 12,3 16,7 22,4 26,9 20,9		
Average	19,0		
(c) Moisture expansion (%)			
After 24 hrs			
Individual	0,039 0,039 0,038 0,031 0,029 0,028 0,038 0,049 0,025		
Average	0,035		
After 96 hrs			
Individual	0,064 0,072 0,059 0,065 0,058 0,060 0,068 0,077 0,053		
Average	0,064		

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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

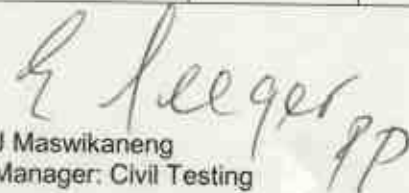
9 EQUIPMENT INFORMATION

Equipment	Capacity	Serial No.	Cal Cert No.	UoM	Next Cal Date
Avery Denison compression	3000 kN	7123/33587-C	F13943	± 0,9 %	April 2021
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
 Manager: Civil Testing



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