

TEST REPORT

Apollo Bricks (Pty) Ltd
Attention: Ms Grace Makena
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Sample No : 723539
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Report No : BCT-180424-00040 A
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Date : 2018-08-30

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 CONCLUSION

- 2.1 The sample tested complies with the requirements of SANS 227:2007 "Burnt Clay Masonry Units" with respect to 14 MPa class NFX. The uncertainty of measurements was applied to the result and the outcome of the compliance remains the same.

3 SAMPLE

DESCRIPTION OF SAMPLE

Sixty "NFX 14 MPa Production date 20/03/18" burnt clay masonry units with nominal dimensions 223 mm x 102 mm x 73 mm.



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SABS Commercial SOC Ltd conducted a conformity assessment pertaining to a sample of the product, commodity or system identified and the outcome recorded in this test report only relates to that specified sample. The conformity assessment outcomes recorded in the test report do not imply SABS Approval of the quality and/or performance of the sample(s) in question and the test results do not apply to any similar sample that has not been tested. (Refer also to the conditions of test printed on the back of this page.) This report may not be reproduced except in full. The authenticity of this report and its contents can be confirmed by contacting the person who signed it.



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4 DATES

- 4.1 Date of sampling : 20 March 2018.
 4.2 Date of receipt : 06 April 2018.
 4.3 Date test started : 15 August 2018.
 4.4 Date test completed : 23 August 2018.

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 277 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	Min Max	Complied	
Length	Individual	222 223	Not required
	Average	223	223 ±3,5
Width	Individual	103 104	Not required
	Average	103	102 ±2,0
Depth	Individual	73 73	Not required
	Average	73	73 ± 2,0

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 exceeded 5 mm No units exceeded 3 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	25,5 18,8 22,8 23,8 21,8 25,7 28,1 22,5 25,0 22,3 28,1 20,2		≥ 10,5
Average	23,7		≥ 14,0
4.5 Efflorescence	Nil 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.

NB The follow tests are only performed when requested by the client

- Water absorption
- Water soluble salts
- Moister expansion

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

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9 EQUIPMENT INFORMATION

Equipment	Capacity	Serial No.	Cal Cert No.	UoM	Next Cal Date
Avery Denison compression	3000 kN	7123/33587-C	F14531	± 0,9 %	February 2019
Water bath (Thermometer)	-	SA 1561/151	2020.TP.673604	± 0,3 %	July 2019
Measuring tape	5 000 mm	B501	U1570	± 0,6 mm	June 2019
Pressure cooker	0 – 250 kPa	BC 005	15-7562	± 0,02 %	Nov 2018
Steel straight edge	1,2 m	4800/06	2020.8298-1	± 0,02 %	Oct 2018
Four steel measuring wedges	9 mm	1 – 4 /611/002	2020.9174-3	± 0,003 mm	Oct 2018


 J Rasekgala
 Test Officer: Building Laboratory
 Technical Signatory


 J Maswikaneng
 Manager: Civil Testing

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