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Our ref : 29871/22/MP
Date : 26. 05. 22

TEST REPORT

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This report relates only to the specific sample tested as identified herein and does not apply to any similar item that has not been tested, if published or reproduced by the client the test report shall be reproduced in full i.e. all pages.

BURNT CLAY MASONRY UNITS

1. SAMPLE
 - 1.1 SAMPLING. Samples taken at random by Soilcon.
 - 1.2 DESCRIPTION. Forty burnt clay masonry units of nominal dimensions 225mm x 106mm x 71mm and reputed to be intended for use as a class NFP - non-facing plastered of nominal compressive strength 7MPa and of normal efflorescence grade.
 - 1.3 SAMPLE CONDITION. Seven of the samples received had corners chipped and eight of the samples had edges damaged.

DATE OF RECEIPT. 4 May 2022

2. NATURE OF TEST.

Refer section 4.

3. METHOD OF TEST.

SANS 227 : 2007

- 3.1 DEVIATIONS FROM TEST METHOD. None.

/4. RESULTS.....

4. RESULTS.

4.1 SHAPE AND APPEARANCE: Satisfactory.

4.2 DIMENSIONS (mm):

| | Comments | Average | Maximum | Minimum |
|---------|----------|---------|---------|---------|
| Length: | None | 225 | 229 | 221 |
| Width: | None | 106 | 108 | 103 |
| Height: | None | 71 | 73 | 69 |

4.3 COMPRESSIVE STRENGTH : (MPa)

| | | | | | | | | | | | |
|----|------|----|------|----|------|-----|------|-----|------|-----|------|
| 1. | 46.8 | 2. | 37.2 | 3. | 31.0 | 4. | 56.5 | 5. | 30.7 | 6. | 49.8 |
| 7. | 39.3 | 8. | 22.8 | 9. | 32.7 | 10. | 37.5 | 11. | 49.8 | 12. | 39.7 |

Average: 39.5 MPa

4.4 EFFLORESCENCE:

Number of units that exhibit the following degrees of efflorescence:

| | |
|-----------|----|
| Nil: | 0 |
| Slight: | 0 |
| Moderate: | 20 |
| Heavy: | 0 |
| Serious: | 0 |

4.5 WATER ABSORPTION %:

4.5.1 24h Immersion Test:

| | | | | | | | | | | | |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1. | 10.6 | 2. | 11.6 | 3. | 10.9 | 4. | 12.6 | 5. | 15.6 | 6. | 12.1 |
|----|------|----|------|----|------|----|------|----|------|----|------|

Average: 12.2 %

4.5.2 5h Boiling Test: Not tested.

4.5.3 Saturation Coefficient: Not tested.

4.6 SOUNDNESS: Not tested.

 4.7 INITIAL RATE OF ABSORPTION (kg/m²)

| | | | | | | | | | | | |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| 1. | 2.3 | 2. | 2.3 | 3. | 1.5 | 4. | 2.9 | 5. | 4.3 | 6. | 2.1 |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|

 Average: 2.6 kg/m²

5. REMARKS.

The sample of burnt clay masonry units as tested by Soilcon complies with the requirements of SANS 227 : 2007 in respect of shape and appearance, dimensions, compressive strength, water absorption and efflorescence.

For the interpretation of the results reflected in this report reference is made to the requirements of SANS 227 : 2007.



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SOILCON cc