

# PHYSICAL TESTING REPORT

# LUCIDEON

insight creating advantage



0013

**Ketley Brick**  
Dreadnought Road  
Pensnett  
Brierley Hill  
West Midlands  
DY5 4TH

FAO: Mr. Chris Dyke

**Report of Tests on:** Ketley Staffordshire Red 65mm Solid Brick

**Your Reference:** FAR 65

**Lucideon Reference:** (155226)-29604

**Date Reported:** 10-Dec-2015

**Order Number:** 27498

**Date Logged:** 25-Nov-2015

**Date(s) of Test(s):** 01-Dec-2015 to 01-Dec-2015

## Determination of Dimensions

BS EN 772-16: 2011

	Length	Width	Height
No.	mm	mm	mm
1	213.5	101.5	64.5
2	213.8	102.3	64.5
3	214.5	101.8	64.5
4	214.3	101.8	64.5
5	214.3	101.5	64.5
6	214.8	102.5	65.0
7	213.8	101.8	64.5
8	214.8	102.0	65.0
9	214.8	102.0	64.3
10	214.5	102.0	65.0
Mean	214.0	102.0	65.0

Work Size: 215 x 102.5 x 65 mm

Name of organisation carrying out sampling: KETLEY BRICK

Method of Sampling: Not Supplied

Tolerance Mean: T2

Tolerance Range: R2

Digital calipers were used as the measuring device (precision 2 decimal places) using Method of Measurement B.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

**End of Test Report**

Miss Zoe Kinally  
Author

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**Date(s) of Test(s):** 01-Dec-2015 to 02-Dec-2015

## Determination of Water Absorption

BS EN 772-7:1998 (Damp proof course units by boiling in water)

	Dry Weight	Saturated Weight After 5 Hr Boil	Water Absorption
No.	g	g	%
1	3187	3315	4.0
2	3200	3316	3.6
3	3251	3364	3.5
4	3218	3338	3.7
5	3235	3353	3.6
6	3242	3356	3.5
7	3228	3354	3.9
8	3221	3341	3.7
9	3199	3328	4.0
10	3249	3344	2.9
Mean	3223	3341	3.6

Name of organisation carrying out sampling: KETLEY BRICK

Method of Sampling: Not Supplied

National Annex NA (Informative). Comments on the differences between EN 771 and BS 3921. In table NA6, equivalent classifying properties of traditional UK Engineering and DPC bricks in relation to EN 771-1, bricks can be classed as CLASS A if the compressive strength and water absorption are  $\geq 125\text{N/mm}^2$  and  $\leq 4.5\%$  respectively and CLASS B  $\geq 75\text{N/mm}^2$  and  $\leq 7.0\%$  respectively. It is the responsibility of the Manufacturer to class their bricks accordingly.

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**Your Reference:** FAR 65

**Lucideon Reference:** (155226)-29604

**Date Reported:** 10-Dec-2015

**Order Number:** 27498

**Date Logged:** 25-Nov-2015

**Date(s) of Test(s):** 08-Dec-2015 to 08-Dec-2015

**Determination of Compressive Strength**  
BS EN 772-1: 2011 (By Surface Grinding)

	<b>Brick Length</b>	<b>Brick Width</b>	<b>Load</b>	<b>Compressive Strength</b>
<b>No.</b>	<b>mm</b>	<b>mm</b>	<b>kN</b>	<b>N/mm<sup>2</sup></b>
1	213.5	101.5	3667	169.2
2	213.8	102.3	3677	168.2
3	214.5	101.8	3477	159.3
4	214.3	101.8	3487	160.0
5	214.3	101.5	3597	165.4
6	214.8	102.5	3786	172.0
7	213.8	101.8	3756	172.7
8	214.8	102.0	3642	166.3
9	214.8	102.0	3748	171.1
10	214.5	102.0	3667	167.6
Mean	214.0	102.0	3650.4	167.2

Name of organisation carrying out sampling: KETLEY BRICK

Method of Sampling: Not Supplied

Method of Conditioning: Dryer at 105 deg C

Method of Preparation: Surface Ground

Orientation of Loading: Bed Face

Coefficient of Variation: 2.8 %

National Annex NA (Informative). Comments on the differences between EN 771 and BS 3921. In table NA6, equivalent classifying properties of traditional UK Engineering and DPC bricks in relation to EN 771-1, bricks can be classed as CLASS A if the compressive strength and water absorption are  $\geq 125\text{N/mm}^2$  and  $\leq 4.5\%$  respectively and CLASS B  $\geq 75\text{N/mm}^2$  and  $\leq 7.0\%$  respectively. It is the responsibility of the Manufacturer to class their bricks accordingly.

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