

PHYSICAL TESTING REPORT

LUCIDEON

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0013

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

FAO: Mr. Christopher Dyke

Report of Tests on: Ketley Staffordshire Brown Brindle 65mm Solid Brick

Your Reference: FABR65

Lucideon Reference: (165158)-35451

Date Reported: 30-Nov-2016

Order Number: 28831

Date Logged: 16-Nov-2016

Date(s) of Test(s): 23-Nov-2016 to 23-Nov-2016

Determination of Dimensions

BS EN 772-16: 2011

	Length	Width	Height
No.	mm	mm	mm
1	215.8	102.5	65.3
2	215.0	102.3	65.3
3	215.5	102.5	65.3
4	215.8	102.0	65.5
5	215.5	102.3	65.8
6	215.0	102.5	65.3
7	215.0	102.0	65.0
8	215.8	102.5	65.0
9	215.3	102.8	65.3
10	215.0	102.0	65.5
Mean	215.0	102.0	65.0

Work Size: 215 x 102.5 x 65 mm

Name of organisation carrying out sampling: KETTLEY 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
Manager

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Date Logged: 16-Nov-2016

Date(s) of Test(s): 23-Nov-2016 to 24-Nov-2016

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	3248	3396	4.6
2	3274	3371	3.0
3	3260	3370	3.4
4	3287	3376	2.7
5	3276	3361	2.6
6	3262	3355	2.9
7	3273	3358	2.6
8	3259	3344	2.6
9	3273	3356	2.5
10	3209	3334	3.9
Mean	3262	3362	3.1

Name of organisation carrying out sampling: KETTLEY 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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FAO: Mr. Christopher Dyke

Report of Tests on: Ketley Staffordshire Brown Brindle 65mm Perforated Brick

Your Reference: PRBR65

Lucideon Reference: (165158)-35452

Date Reported: 30-Nov-2016

Order Number: 28831

Date Logged: 16-Nov-2016

Date(s) of Test(s): 23-Nov-2016 to 23-Nov-2016

Determination of Dimensions

BS EN 772-16: 2011

	Length	Width	Height
No.	mm	mm	mm
1	215.3	103.0	65.3
2	215.0	103.3	65.0
3	215.3	103.0	65.3
4	214.8	103.3	65.0
5	215.3	102.8	65.3
6	215.0	103.0	65.6
7	215.0	103.0	65.0
8	215.5	103.5	65.0
9	215.3	102.8	64.5
10	215.0	103.0	65.0
Mean	215.0	103.0	65.0

Work Size: 215 x 102.5 x 65 mm

Name of organisation carrying out sampling: KETTLEY 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.

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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	2579	2673	3.6
2	2587	2687	3.9
3	2582	2683	3.9
4	2580	2669	3.4
5	2573	2660	3.4
6	2553	2652	3.9
7	2572	2672	3.9
8	2552	2659	4.2
9	2545	2647	4.0
10	2551	2657	4.2
Mean	2567	2666	3.8

Name of organisation carrying out sampling: KETTLEY 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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Order Number: 28831

Date Logged: 16-Nov-2016

Date(s) of Test(s): 28-Nov-2016 to 28-Nov-2016

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

	Brick Length	Brick Width	Load	Compressive Strength
No.	mm	mm	kN	N/mm²
1	215.8	102.5	3936	178.0
2	215.0	102.3	3786	172.2
3	215.5	102.5	3856	174.6
4	215.8	102.0	3737	169.8
5	215.5	102.3	3637	165.1
6	215.0	102.5	3667	166.4
7	215.0	102.0	3438	156.8
8	215.8	102.5	3657	165.4
9	215.3	102.8	3617	163.5
10	215.0	102.0	3587	163.6
Mean	215.0	102.0	3691.8	167.5

Name of organisation carrying out sampling: KETTLEY 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: 3.7 %

Crushing Machine: 5000KN

Machine Number: E6044

Serial Number: 817

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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Lucideon Reference: (165158)-35452

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Order Number: 28831

Date Logged: 16-Nov-2016

Date(s) of Test(s): 25-Nov-2016 to 25-Nov-2016

Determination of Compressive Strength

BS EN 772-1: 2011 (By Surface Grinding)

	Brick Length	Brick Width	Load	Compressive Strength
No.	mm	mm	kN	N/mm ²
1	215.3	103.0	2820	127.2
2	215.0	103.3	3099	139.6
3	215.3	103.0	3129	141.1
4	214.8	103.3	2939	132.5
5	215.3	102.8	2900	131.1
6	215.0	103.0	2989	135.0
7	215.0	103.0	3109	140.4
8	215.5	103.5	3069	137.6
9	215.3	102.8	3079	139.2
10	215.0	103.0	2969	134.1
Mean	215.0	103.0	3010.2	135.8

Name of organisation carrying out sampling: KETTLEY 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: 3.4 %

Crushing Machine: 5000KN

Machine Number: E6044

Serial Number: 817

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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