

# PHYSICAL TESTING REPORT

# LUCIDEON

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**Hinton, Perry & Davenhill Limited**  
Dreadnought Road  
Pensnett  
Brierley Hill  
West Midlands  
DY5 4TH

0013

FAO: Mr. Christopher Dyke

**Report of Tests on:** Staffordshire Red Solid Engineering Brick

**Your Reference:** FAR65

**Lucideon Reference:** (194206)-33058

**Date Reported:** 12-Aug-2019

**Order Number:** 29536

**Date Logged:** 29-Jul-2019

**Date(s) of Test(s):** 31-Jul-2019 to 31-Jul-2019

## Determination of Dimensions

BS EN 772-16: 2011

	Length	Width	Height
No.	mm	mm	mm
1	216.0	102.2	65.4
2	214.3	101.6	65.1
3	215.2	101.6	65.1
4	214.8	101.4	64.8
5	214.9	101.7	65.7
6	214.8	101.2	64.9
7	214.8	101.6	65.2
8	215.5	102.2	65.3
9	214.8	101.5	64.9
10	215.5	101.8	64.9
Mean	215.0	102.0	65.0

Work Size: 215 x 102.5 x 65 mm

Name of organisation carrying out sampling: HINTON PERRY & DAVENHILL

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**

Mr Richard Oliver  
Manager

This report is issued in accordance with the Conditions of Business of Lucideon Limited and relates only to the sample(s) tested. No responsibility is taken for the accuracy of the sampling unless this is done under our own supervision. This report shall not be reproduced in part without the written approval of Lucideon Limited, nor used in any way as to lead to misrepresentation of the results or their implications.

Lucideon is the trading name of Lucideon Limited. Registered in England No. 1960455.

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**Date Reported:** 12-Aug-2019

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**Date(s) of Test(s):** 05-Aug-2019 to 06-Aug-2019

## 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	3246	3380	4.1
2	3241	3338	3.0
3	3249	3382	4.1
4	3238	3341	3.2
5	3254	3380	3.9
6	3251	3358	3.3
7	3246	3374	3.9
8	3268	3377	3.3
9	3252	3347	2.9
10	3249	3379	4.0
Mean	3249	3366	3.6

Name of organisation carrying out sampling: HINTON PERRY & DAVENHILL

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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**End of Test Report**

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Manager

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FAO: Mr. Christopher Dyke

**Report of Tests on:** Staffordshire Red Solid Engineering Brick

**Your Reference:** FAR65

**Lucideon Reference:** (194206)-33058

**Date Reported:** 12-Aug-2019

**Order Number:** 29536

**Date Logged:** 29-Jul-2019

**Date(s) of Test(s):** 08-Aug-2019 to 08-Aug-2019

**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	216.0	102.2	4439.7	201.2
2	214.3	101.6	4288.4	197.0
3	215.2	101.6	4207.2	192.4
4	214.8	101.4	4298.3	197.4
5	214.9	101.7	4266.3	195.2
6	214.8	101.2	4343.1	199.8
7	214.8	101.6	4155.7	190.4
8	215.5	102.2	4559.3	207.1
9	214.8	101.5	4511.1	207.0
10	215.5	101.8	4022.7	183.3
Mean	215.0	102.0	4309.2	197.1

Name of organisation carrying out sampling: HINTON PERRY & DAVENHILL

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: Controls5000

Machine Number: C79Z00

Serial Number: COM041

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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**End of Test Report**

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Manager