

PHYSICAL TESTING REPORT

LUCIDEON

insight creating advantage



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

0013

FAO: Mr. Christopher Dyke

Report of Tests on: Staffordshire Red Perforated Engineering Brick

Your Reference: PRR65

Lucideon Reference: (194206)-33059

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	215.0	102.7	65.2
2	214.9	102.7	64.7
3	215.2	102.8	64.7
4	215.2	102.8	64.4
5	214.5	102.4	65.7
6	214.5	102.5	64.5
7	214.9	102.5	64.7
8	214.6	102.6	64.7
9	214.9	102.4	64.9
10	215.2	102.7	65.1
Mean	215.0	103.0	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.

Lucideon Limited
Queens Road, Penkull
Stoke-on-Trent
Staffordshire ST4 7LQ

T +44 (0)1782 764428
enquiries@lucideon.com
www.lucideon.com

PHYSICAL TESTING REPORT

LUCIDEON

insight creating advantage



0013

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

FAO: Mr. Christopher Dyke

Report of Tests on: Staffordshire Red Perforated Engineering Brick

Your Reference: PRR65

Lucideon Reference: (194206)-33059

Date Reported: 12-Aug-2019

Order Number: 29536

Date Logged: 29-Jul-2019

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	2427	2518	3.8
2	2420	2508	3.6
3	2430	2516	3.6
4	2421	2508	3.6
5	2421	2501	3.3
6	2421	2500	3.2
7	2416	2501	3.5
8	2419	2501	3.4
9	2431	2514	3.4
10	2429	2508	3.3
Mean	2424	2508	3.5

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.

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.

Lucideon Limited
Queens Road, Penkull
Stoke-on-Trent
Staffordshire ST4 7LQ

T +44 (0)1782 764428
enquiries@lucideon.com
www.lucideon.com

Page 1 of 1

PHYSICAL TESTING REPORT

LUCIDEON

insight creating advantage



0013

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

FAO: Mr. Christopher Dyke

Report of Tests on: Staffordshire Red Perforated Engineering Brick

Your Reference: PRR65

Lucideon Reference: (194206)-33059

Date Reported: 12-Aug-2019

Order Number: 29536

Date Logged: 29-Jul-2019

Date(s) of Test(s): 09-Aug-2019 to 09-Aug-2019

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	215.0	102.7	3371	152.7
2	214.9	102.7	3424.1	155.2
3	215.2	102.8	3478.2	157.2
4	215.2	102.8	3463.2	156.6
5	214.5	102.4	3371.1	153.4
6	214.5	102.5	3451	156.9
7	214.9	102.5	3424.1	155.5
8	214.6	102.6	3351.5	152.2
9	214.9	102.4	3562.7	161.9
10	215.2	102.7	3361.1	152.1
Mean	215.0	103.0	3425.8	155.4

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: 1.9 %

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.

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

End of Test Report

Mr Richard Oliver
Manager

Page 1 of 1

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.

Lucideon Limited
Queens Road, Penkull
Stoke-on-Trent
Staffordshire ST4 7LQ

T +44 (0)1782 764428
enquiries@lucideon.com
www.lucideon.com