PHYSICAL TESTING REPORT

LUCIDEON
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UKAS TESTING
0013

Raeburn Brick Company Limited
East Avenue
Priestfield Industrial Estate
Blantyre
Glasgow
G72 0JB

FAO: Mr. Stuart Raeburn

Report of Tests on: Snowie 65 Dragwire
Your Reference: 65 D-wire
Lucideon Reference: UK202759-19856
Date Reported: 04-Aug-2020
Order Number: 17477
Date Logged: 07-Jul-2020
Date(s) of Test(s): 03-Aug-2020 **to** 03-Aug-2020

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	217.6	102.8	1479	66.1
2	217.2	102.8	1414	63.3
3	217.4	103.4	1339	59.6
4	216.4	102.5	1726	77.8
5	216.5	102.3	1628	73.5
6	216.9	102.5	1524	68.5
7	216.6	101.9	1580	71.6
8	215.9	102.7	1655	74.7
9	216.4	102.5	1659	74.8
10	216.1	102.1	1575	71.4
Mean	217.0	103.0	1557.9	70.1

Name of organisation carrying out sampling: RAEBURN 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: 8.1 %
Crushing Machine: 3000KN
Machine Number: 90011
Serial Number: 1746

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End of Test Report

Mr Richard Oliver
Manager

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Queens Road, Penkhull
Stoke-on-Trent
Staffordshire ST4 7LQ

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Date Reported: 04-Aug-2020 **Order Number:** 17477
Date Logged: 07-Jul-2020 **Date(s) of Test(s):** 28-Jul-2020 **to** 29-Jul-2020

Determination of Net & Gross Dry Density of Masonry Units (Except for Natural Stone)
BS EN 772-13:2000

	Net Dry Density	Gross Dry Density
No.	**kg/m³**	**kg/m³**
1	2000	1470
2	1980	1480
3	1970	1480
4	2040	1520
5	2030	1490
6	2010	1480
7	2030	1500
8	2030	1470
9	2030	1470
10	2020	1500
Mean	2010	1490

Name of organisation carrying out sampling: RAEBURN BRICK
Method of Sampling: Not Supplied

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Lucideon Reference: UK202759-19856
Date Reported: 04-Aug-2020
Order Number: 17477
Date Logged: 07-Jul-2020
Date(s) of Test(s): 22-Jul-2020 **to** 22-Jul-2020

Determination of Dimensions

BS EN 772-16: 2011

	Length	Width	Height
No.	**mm**	**mm**	**mm**
1	217.6	102.8	66.3
2	217.2	102.8	65.9
3	217.4	103.4	66.5
4	216.4	102.5	65.6
5	216.5	102.3	66.1
6	216.9	102.5	66.7
7	216.6	101.9	66.5
8	215.9	102.7	67.1
9	216.4	102.5	66.7
10	216.1	102.1	65.9
Mean	217.0	103.0	66.0

Work Size: 215 x 102.5 x 65 mm
Name of organisation carrying out sampling: RAEBURN 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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Date Reported: 04-Aug-2020 **Order Number:** 17477
Date Logged: 07-Jul-2020 **Date(s) of Test(s):** 24-Jul-2020 **to** 24-Jul-2020

Determination of Initial Rate of Water Absorption

BS EN 772-11: 2011 (Clay masonry units)

No.	Initial Rate of Water Absorption kg/(m².min)
1	1.1
2	1.2
3	1.2
4	0.9
5	1.0
6	1.0
7	1.1
8	1.1
9	1.0
10	1.0
Mean	1.1

Name of organisation carrying out sampling: RAEBURN BRICK
Method of Sampling: Not Supplied

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Determination of Thermal Conductivity & Water Vapour Permeability

EN1745:2012 Annex A, Masonry & Masonry Products, Methods for Determining Design Thermal Values

No.	Thermal Conductivity P = 50% W/mK	Thermal Conductivity P = 90% W/mK	Water Vapour Diffusion Coefficient μ
1	0.58	0.64	5/10

Results taken from tabulated values based on values determined from EN772-13:2000. Thermal conductivity determined in a dry state at an average temperature of 10 deg C.

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Determination of Water Absorption

BS EN 772-21: 2011

	Dry Weight	Saturated Weight After 24 Hr Soak	Water Absorption
No.	**g**	**g**	**%**
1	2192	2417	10
2	2158	2394	11
3	2188	2433	11
4	2190	2377	9
5	2179	2375	9
6	2194	2412	10
7	2188	2391	9
8	2196	2399	9
9	2196	2394	9
10	2157	2362	9
Mean	2184	2395	10

Name of organisation carrying out sampling: RAEBURN BRICK
Method of Sampling: Not Supplied

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