

PHYSICAL TESTING ANALYSIS REPORT

Description:	Transverse Stre	ength Before	& After Free	eze Thaw	Testing

Test Method: BS EN 492

Lucideon Reference: (181364)-17852

Client: Greys Artstone Ltd

Burdwell Works New Mill Road

Brockholes Holmfirth Huddersfield West Yorkshire HD9 7AZ

For the Attention of: Mr. Lee Johnson

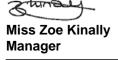
Date Logged: 12-Mar-2018

Date of Tests: 25-Apr-2018 to 27-Jun-2018

Report Date: 28-Jun-2018

Purchase Order No.: Credit Card

Please find attached the results for the sample(s) recently submitted for analysis.



Lucideon Limited

Stoke-on-Trent

Lucideon Reference: (181364)-17852

Customer Reference: Reproduction Welsh Slate with 100% Welsh Slate Aggregate Reproduction Welsh Slate with 100% Welsh Slate Aggregate



DETERMINATION OF BENDING MOMENT OF RUPTURE BEFORE AND AFTER FREEZE THAW FIBRE-CEMENT SLATES AND FITTINGS (BS EN 492: 2012+A1: 2016)

BEFORE FREEZE THAW

Specimen Number	Mean Bending Moment of Rupture of Two Directions (Nm/m)	Weaker Bending Moment of Rupture (Nm/m)
1	113	108
2	122	116
3	147	138
4	135	133
5	144	128
6	152	143
7	132	119
8	114	113
9	133	116
10	109	103
Mean	130	122

AFTER FREEZE THAW

Specimen Number	Mean Bending Moment of Rupture of Two Directions (Nm/m)	Weaker Bending Moment of Rupture (Nm/m)
1	157	149
2	177	145
3	191	185
4	200	163
5	195	184
6	211	193
7	155	130
8	158	156
9	198	196
10	162	157
Mean	180	166

INTERPRETATIONS OF COMPLIANCE

Specimen Number	Individual Ratio of Bending Moments, R _i
1	1.39
2	1.45
3	1.30
4	1.48
5	1.35
6	1.39
7	1.18
8	1.39
9	1.49
10	1.49
Mean, R	1.39
Standard Deviation, s	0.09
R _L	1.33

To satisfy the requirements of BS EN 492 for Durability and Freeze-thaw, section 5.4.5: $R_L \ge 0.75$. The samples tested meet these requirements.

END OF TEST REPORT