

TEST REPORT

REPORT NUMBER

029269

DATE OF ISSUE

5th July 2019

Client

HT Moulding Technology Ltd
Edgeworthstown Bus Park
Edgeworthstown
Longford
Ireland

Customer order N°

cash

Testing of

15 Sample plastic crates

TABLE OF CONTENTS

- 1.0 Test Objective**
- 2.0 Name of test house**
- 3.0 Accreditation Reference**
- 4.0 Date of test**
- 5.0 Witness details**
- 6.0 Description of samples tested**
- 7.0 Test type**
- 8.0 Equipment and calibration**
- 9.0 Test data**
- 10.0 Summary of results data**

1.0 Test Objective

To carry out compressive load testing to destruction in line with the customer requirements.

2.0 Name of Test House.

Lloyds British Testing Ltd
Unit 1 Kings Hill Business Park
Darlaston Road
Wednesbury
WS107SH

3.0 Accreditation Reference

ISO 9001: 2008

4.0 Date of Test

26" June 2019

5.0 Witness Details

Graham Martin-Loat

6.0 Description of items tested.

15 samples of plastic geocellular stormwater storage units.

7.0 Test Type

Resistance to point loads, ultimate load capacity of plastic geocellular stormwater storage units.

8.0 Equipment and Calibration

Compressive Test machine N° LL200c

Certificate Number: C6759

Calibrated in accordance with ISO 7500-1 :2004 (E) Part 1

Calibration date: 08/05/2019

Validity 12 months

9.0 Test Data: Including additional test results

Sample A, 300mm diameter pushing block. Centre location.

Load, Kgs	Deflection
500	2.12
1000	3.32
1500	4.41
2000	5.50
2100	5.9
2200	6.11
2300	6.4
2400	6.67
2500	6.98
2600	7.37
2700	7.7
2800	8.09
2900	8.6
3000	9.25

Sample B, 300mm diameter pushing block, Centre location.

Load, Kgs	Deflection
500	2.08
1000	3.03
1500	3.99
2000	4.95
2100	5.19
2200	5.40
2300	5.65
2400	5.89
2500	6.14
2600	6.38
2700	6.70
2800	6.98
2900	7.28
3000	7.54
3100	7.98
3200	8.37
3300	8.90

Sample C, 300mm diameter pushing block, Centre location.

Load, Kgs	Deflection
500	2.35
1000	3.25
1500	4.21
2000	4.99
2100	5.60
2200	5.82
2300	6.03
2400	6.25
2500	6.47
2600	6.70
2700	6.92
2800	7.21
2900	7.45
3000	7.81
3100	8.18
3200	8.54

Sample F, 300mm diameter pushing block, Corner location.

Load, Kgs	Deflection
500	2.51
1000	3.18
1500	4.16
2000	5.23
2500	6.29
2600	6.60
2700	6.87
2800	7.15
2900	7.48
3000	7.75
3100	8.09
3200	8.40
3300	8.78
3400	9.16
3500	9.64

Sample G, 300mm diameter pushing block, Corner location.

Load, Kgs	Deflection
500	2.13
1000	3.12
1500	4.12
2000	5.06
2500	6.12
2600	6.43
2700	6.69
2800	6.93
2900	7.25
3000	7.48
3100	7.77
3200	8.05
3300	8.35
3400	8.69
3500	9.06
3600	9.45
3700	9.94

Sample H, 300mm diameter pushing block, Corner location.

Load, Kgs	Deflection
500	2.25
1000	3.34
1500	4.36
2000	5.51
2500	6.66
2600	6.98
2700	7.37
2800	7.75
2900	8.04
3000	8.45
3100	8.89
3200	9.59
3300	10.80

Sample M, 420mm diameter pushing block, Side location.

Load, Kgs	Deflection
500	3.64
600	2.58
700	3.66
800	4.31
900	5.16
1000	6.18
1100	7.48
1200	8.78
1300	10.48

Sample N, 420mm diameter pushing block, Side location.

Load, Kgs	Deflection
500	2.38
600	3.22
700	4.17
800	5.11
900	5.78
1000	6.41
1100	7.11
1200	7.70
1300	8.24

Sample O, 420mm diameter pushing block, Side location.

Load, Kgs	Deflection
500	1.14
600	1.63
700	2.01
800	2.43
900	2.79
1000	3.2
1100	3.67
1200	4.18

10 Summary of results data

Sample	Plate Size	Position	Yield Point
A	300mm Ø	Centre Vertical	3000kgs
B	300mm Ø	Centre Vertical	3300kgs
C	300mm Ø	Centre Vertical	3200kgs
F	300mm Ø	Corner Vertical	3500kgs
G	300mm Ø	Corner Vertical	3700kgs
H	300mm Ø	Corner Vertical	3300kgs
M	420mm Ø	Centre Lateral	1300kgs
N	420mm Ø	Centre Lateral	1200kgs
O	420mm Ø	Centre Lateral	1350kgs

Test carried out by A Wilson

Engineering Supervisor.....

Report Reviewed By: D Marson.....

Depot Manager.....

Test Conducted on behalf of
HT Moulding Technology Ltd
Edgeworthstown Bus Park
Edgeworthstown
Longford
Ireland