

Glass Balustrade Load Test Certificate

Project:	Glidefit Juliet Balcony System
Project No.:	68018
Report No.:	68018/1
Client:	Origin Architectural Limited / Godfrey Ellis Associates Limited
Date Tested:	01/11/2022
Date Reported:	04/01/2023

Test Specification:	Proof load testing of balustrade in accordance with BS 6180: 2011, Table 2, loading case (ii). Horizontal Line Load of 0.74 kN/m; UDL to panel of 1.0 kN/m ² ; Point load of 0.5 kN.
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Notes:	Load applied incrementally in stages of 20% of the desired load
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Test Engineers:	AC + PR
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Balustrade Specification

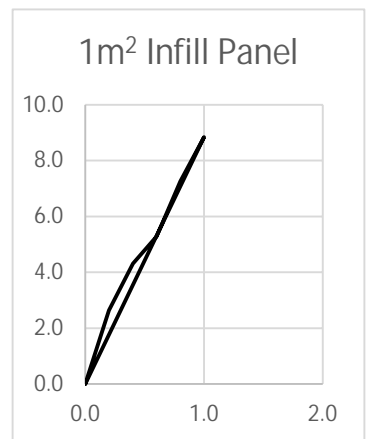
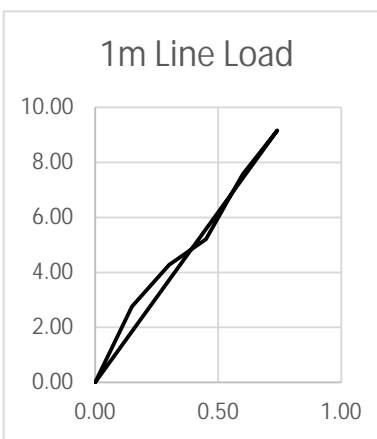
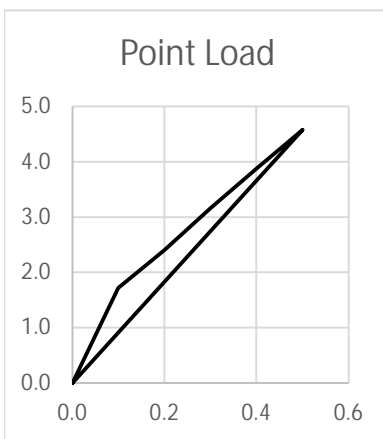
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	2000
Panel Support:	17.5mm Thick Toughened laminate Glass, Fixing to Metal Channel
Fastener Used:	M8 x 35mm Stainless Steel Button Screws ISO7380 with M8 A2 Stainless Steel Nut.
Top rail :	None

Test Results

Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	1.72
0.2	2.40
0.3	3.16
0.4	3.87
0.5	4.58
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	2.76
0.30	4.27
0.45	5.20
0.60	7.57
0.74	9.16
0.00	0.00

1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	2.64
0.4	4.31
0.6	5.29
0.8	7.25
1.0	8.84
0.0	0.00



Deflection Limit	25.00
Test Summary:	Pass

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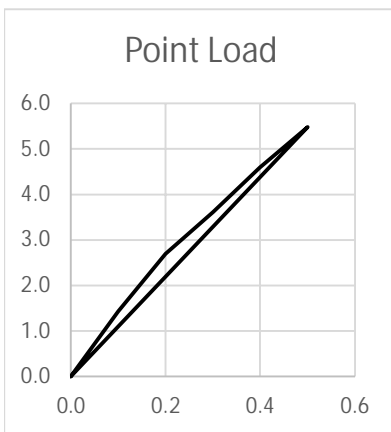
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	2000
Panel Support:	17.5mm Thick Toughened laminate Glass, Fixing to Extruded Aluminium
Fastener Used:	Easydrive 4.8 x 50mm Wafer Head Self Tapping Thread Self Drill Point Zinc Plated.
Top rail :	None

Test Results

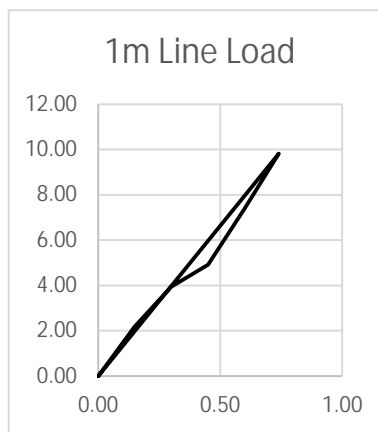
Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	1.43
0.2	2.70
0.3	3.61
0.4	4.59
0.5	5.48
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	2.19
0.30	3.94
0.45	4.91
0.60	7.38
0.74	9.82
0.00	0.00

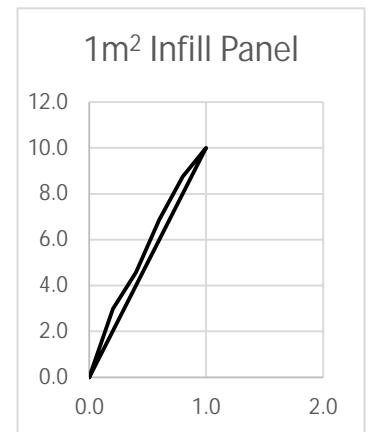
1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	2.99
0.4	4.57
0.6	6.88
0.8	8.75
1.0	10.00
0.0	0.00



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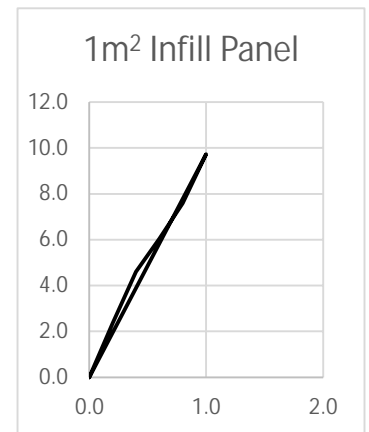
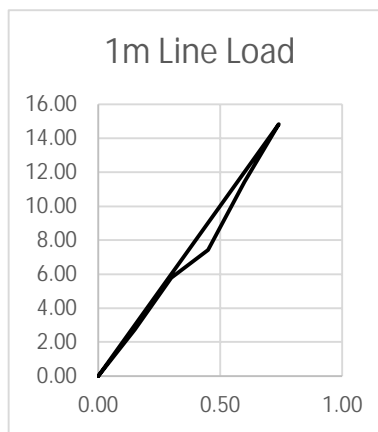
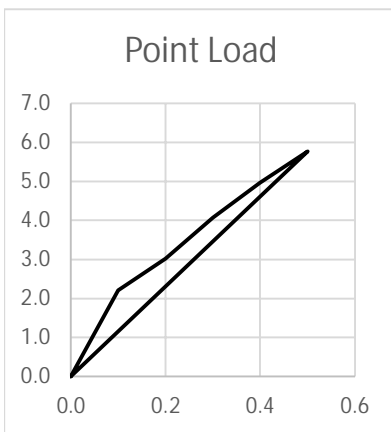
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	2000
Panel Support:	17.5mm Thick Toughened laminate Glass, Fixing to UPVC
Fastener Used:	SplT DRIVA TP 12.2 Part with 12mm Washer
Top rail :	None

Test Results

Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	2.21
0.2	3.02
0.3	4.07
0.4	4.97
0.5	5.77
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	2.72
0.30	5.79
0.45	7.42
0.60	11.45
0.74	14.83
0.00	0.00

1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	2.39
0.4	4.60
0.6	6.04
0.8	7.59
1.0	9.72
0.0	0.00




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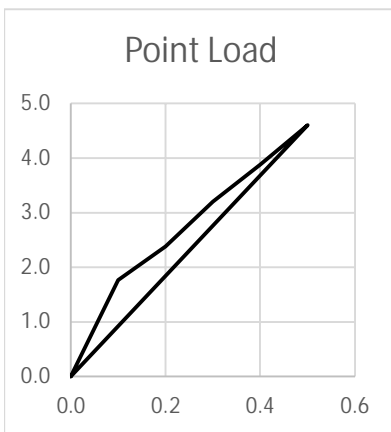
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	2000
Panel Support:	17.5mm Thick Toughened laminate Glass, Fixing to Concrete
Fastener Used:	8mm x 60mm Heavy Duty CSK Sleeve Anchor Bolts
Top rail :	None

Test Results

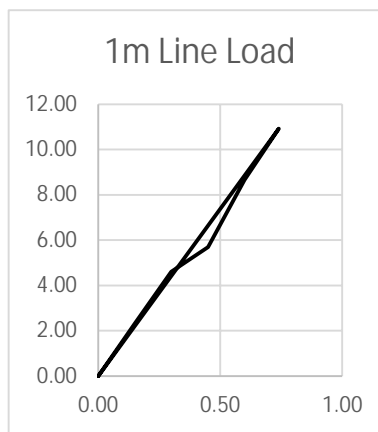
Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	1.77
0.2	2.38
0.3	3.20
0.4	3.88
0.5	4.60
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	2.31
0.30	4.60
0.45	5.70
0.60	8.66
0.74	10.92
0.00	0.00

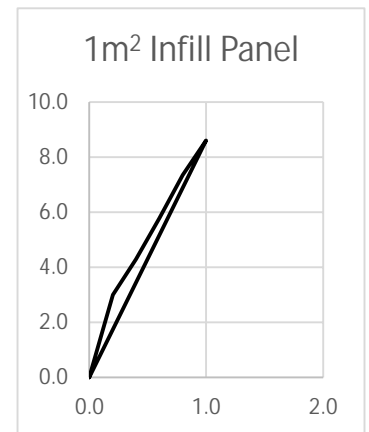
1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	3.00
0.4	4.29
0.6	5.78
0.8	7.35
1.0	8.60
0.0	0.00



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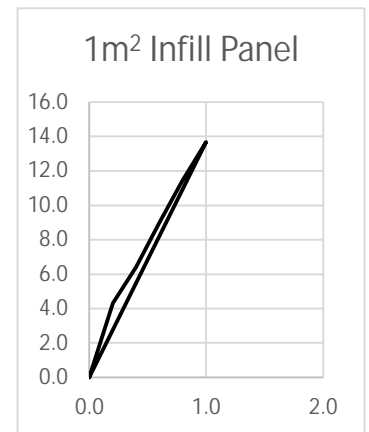
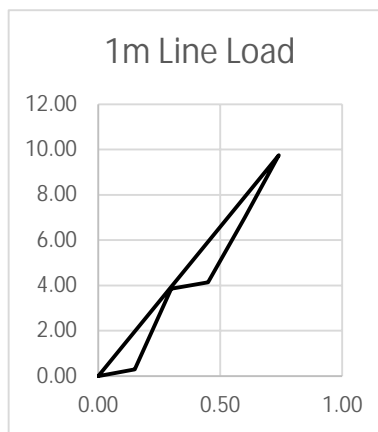
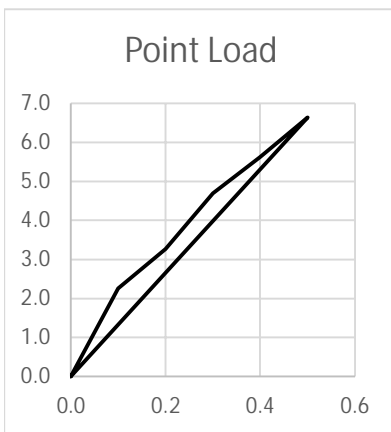
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	3000
Panel Support:	21.5mm Thick Toughened laminate Glass, Fixing to Concrete
Fastener Used:	8mm x 60mm Heavy Duty CSK Sleeve Anchor Bolts
Top rail :	None

Test Results

Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	2.26
0.2	3.27
0.3	4.70
0.4	5.62
0.5	6.64
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	0.29
0.30	3.86
0.45	4.14
0.60	6.98
0.74	9.75
0.00	0.00

1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	4.32
0.4	6.40
0.6	8.99
0.8	11.46
1.0	13.67
0.0	0.00



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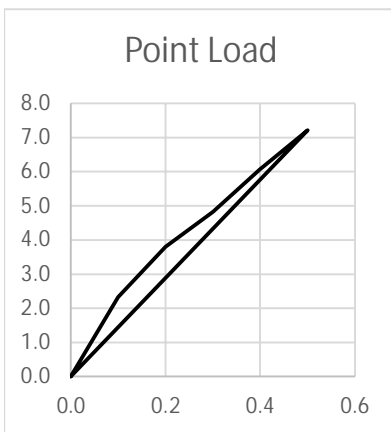
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	3000
Panel Support:	21.5mm Thick Toughened laminate Glass, Fixing to Extruded Aluminium
Fastener Used:	Easy Drive 12mm Head 4.8 x 50mm Wafer Head Self Tapping Thread Zinc Plated
Top rail :	None

Test Results

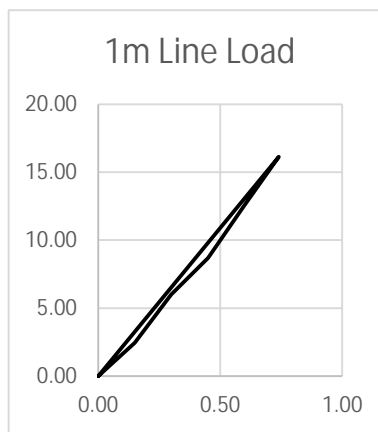
Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	2.33
0.2	3.80
0.3	4.82
0.4	6.07
0.5	7.21
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	2.43
0.30	5.99
0.45	8.68
0.60	12.57
0.74	16.14
0.00	0.00

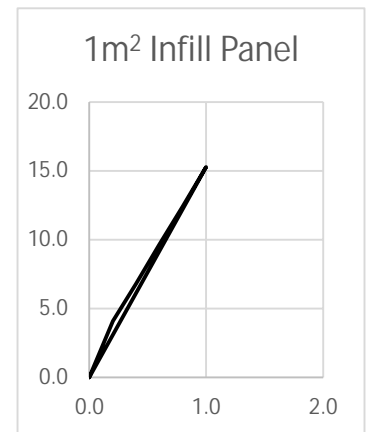
1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	4.10
0.4	6.79
0.6	9.64
0.8	12.43
1.0	15.28
0.0	0.00



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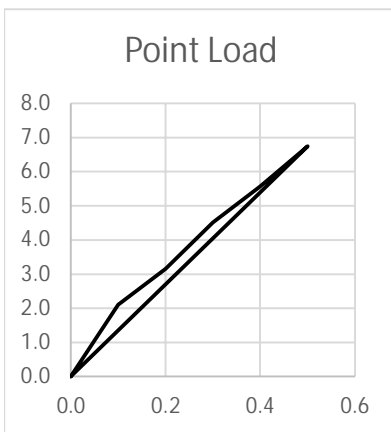
Barrier Type:	GideFit Juliet Balcony System
Panel Height (mm):	1100
Panel Width (mm):	3000
Panel Support:	21.5mm Thick Toughened laminate Glass, Fixing to UPVC
Fastener Used:	SplT DRIVA TP 12.2 Part with 12mm Washer
Top rail :	None

Test Results

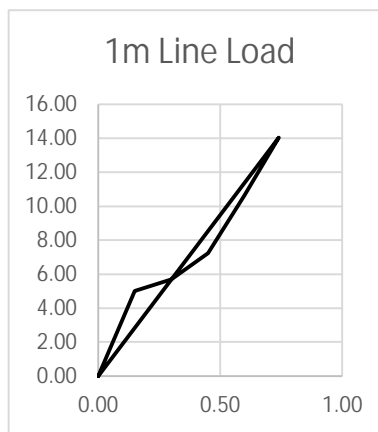
Point Load	
Load (kN)	Displacement (mm)
0.0	0.00
0.1	2.10
0.2	3.15
0.3	4.51
0.4	5.56
0.5	6.74
0.0	0.00

1m Line Load	
Load (kN)	Displacement (mm)
0.00	0.00
0.15	5.01
0.30	5.70
0.45	7.23
0.60	10.65
0.74	14.04
0.00	0.00

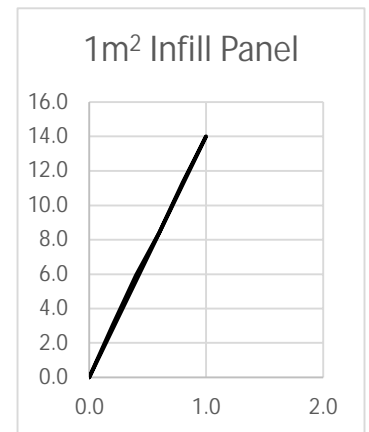
1m ² Infill Panel	
Load (kN)	Displacement (mm)
0.0	0.00
0.2	3.06
0.4	5.93
0.6	8.41
0.8	11.34
1.0	14.00
0.0	0.00



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