

**TESTCONSULT**11 Rufford Court, Woolston, Warrington, Cheshire, WA1 4RF  
Tel. (01925) 859970 Fax. (01925) 286881**LABORATORY TEST REPORT FOR MS-124**  
**Horizontal Loading of Balustrade System**

<b>Project :</b> Balustrade Test	<b>Job No.:</b> J4918
<b>Client :</b> Makedoniki Panidis SA	<b>Report No.:</b> IR4932
11ht km Old National Road, Thessaloniki - Kilkis, PO Box 141, P.C. 57008	<b>Specification:</b> BS 6180:2011
	<b>Material:</b> Toughened Laminated glass panel and aluminium supports
<b>Originator:</b> Giannis Laskaris	<b>Date Tested:</b> 20/09/2016
	<b>Date Reported:</b> 23/09/2016

Height of Balustrade (off finished floor)	1100 mm		
Glass panel dimensions	<b>1500 mm x 1500 mm x 31.52 mm</b>		
Distance between supports <i>L</i>	577.5 mm		
Intended use of Balustrade	See report (2.3 Test Procedure)		
Maximum allowable deflection under line load	25 mm	Measured deflection	25 mm
Maximum allowable deflection uniformly distributed load	8.9 mm	Measured deflection	8.9 mm
Maximum allowable deflection point load	8.9 mm	Measured deflection	8.9 mm
<b>Minimum imposed loads</b>			
Line load at 1100 mm	See report (2.3 Test Procedure)		
Uniformly distributed load	See report (2.3 Test Procedure)		
Point load	See report (2.3 Test Procedure)		

**Line Load**

Test	Deflection (mm)	Bar	Load (kN)	Load (kN/m)
1	25.0	70.5	4.58	3.06
2	25.0	70.2	4.56	3.04
3	25.0	70.4	4.58	3.05

Average: 3.05 kN/m

**Uniform Load**

Test	Deflection (mm)	Bar	Load (kN)	Load (kN/m <sup>2</sup> )
1	8.90	55.10	3.58	4.42
2	8.90	57.40	3.73	4.61
3	8.90	58.30	3.79	4.68

Average: 4.57 kN/m<sup>2</sup>**Point Load**

Test	Deflection (mm)	Bar	Load (kN)
1	8.90	62.20	4.04
2	8.90	63.20	4.11
3	8.90	61.00	3.97

Average: 4.04 kN