

TEST CERTIFICATE BALUSTRADE TESTING

On behalf of Makedoniki – Pandis S.A
11ht km Old National Road, Thessaloniki – Kilkis, PO Box 141 – P.C. 570 08 Greece

TEST DESCRIPTION: A horizontal UDL was applied to the balustrade at a height of 1100mm to determine the deflection of the balustrade.

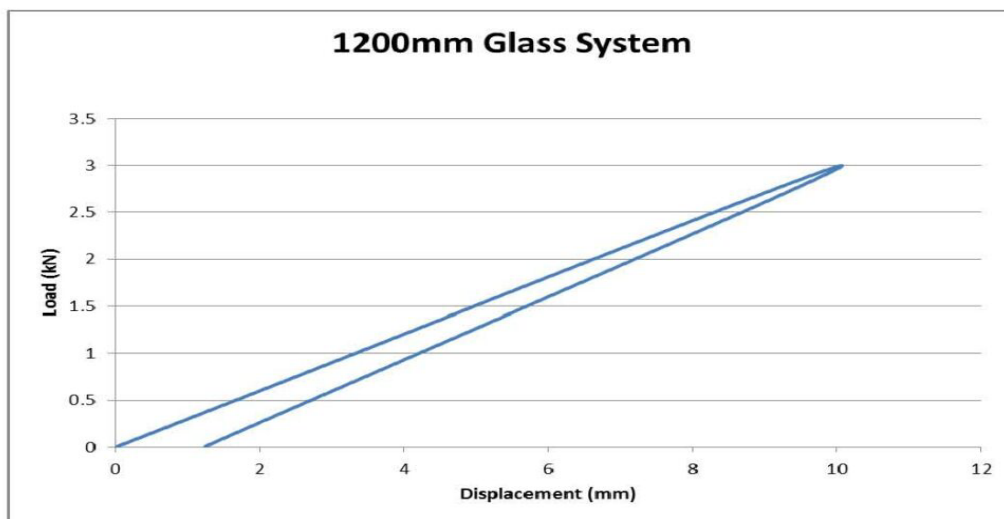
REF NO.: IR4447
JOB NO.: I7041

DATE TESTED: 25th November 2014
DATE REPORTED: 28th November 2014
CERTIFICATE DATE: 28th November 2014

TEST DETAILS:

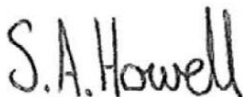
Barrier height: 1100 mm
Material: MS-120-1200 Toughened Glass Balustrade System 1100mm * 1200mm for 900mm opening

TEST RESULTS:



ANALYSIS:

The balustrade barrier when assembled and tested in the manor indicated within this certificate conforms to BS6180:2011 at the barrier design load of 3kN/m.



NAME: Steven Howell
POSITION: Instrumentation Engineer



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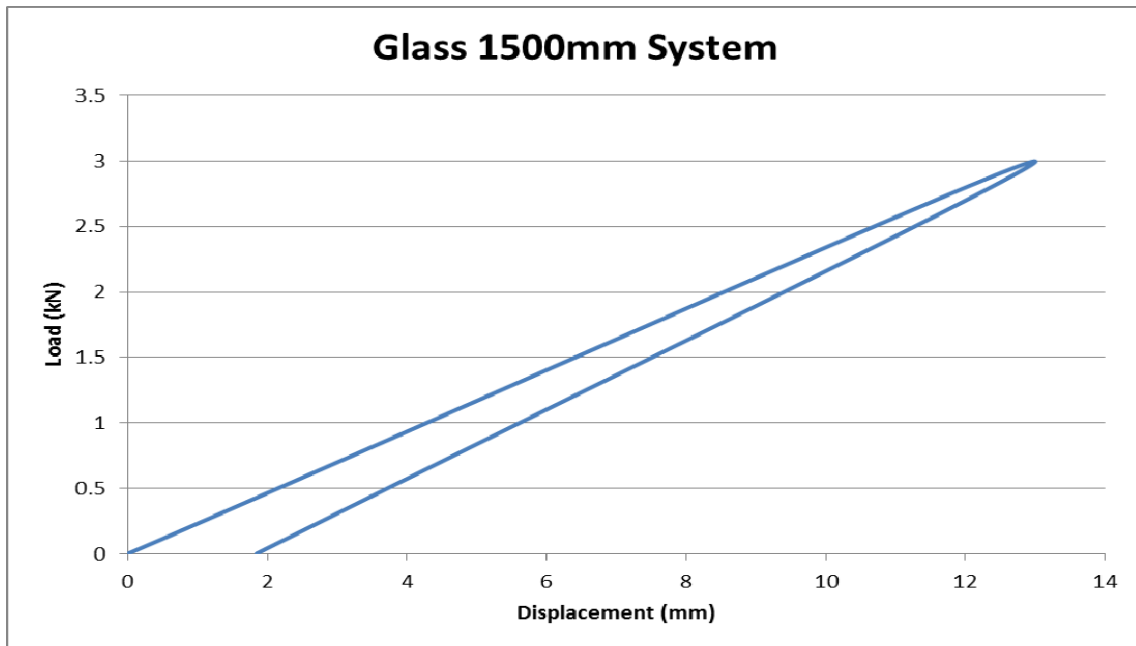
TEST DESCRIPTION: A horizontal UDL was applied to the balustrade at a height of 1100mm to determine the deflection of the balustrade.

REF NO.: IR4447
JOB NO.: I7041

DATE TESTED: 25th November 2014
DATE REPORTED: 28th November 2014
CERTIFICATE DATE: 28th November 2014

TEST DETAILS:
Barrier height: 1100 mm
Material: MS-120-1500 Toughened Glass Balustrade 1100mm * 1500mm for 1200mm opening

TEST RESULTS:



ANALYSIS:

The balustrade barrier when assembled and tested in the manor indicated within this certificate conforms to BS6180:2011 at the barrier design load of 3kN/m.

S.A. Howell

NAME: Steven Howell
POSITION: Instrumentation Engineer



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On behalf of Makedoniki – Pandis S.A
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TEST DESCRIPTION: A horizontal UDL was applied to the balustrade at a height of 1100mm to determine the deflection of the balustrade.

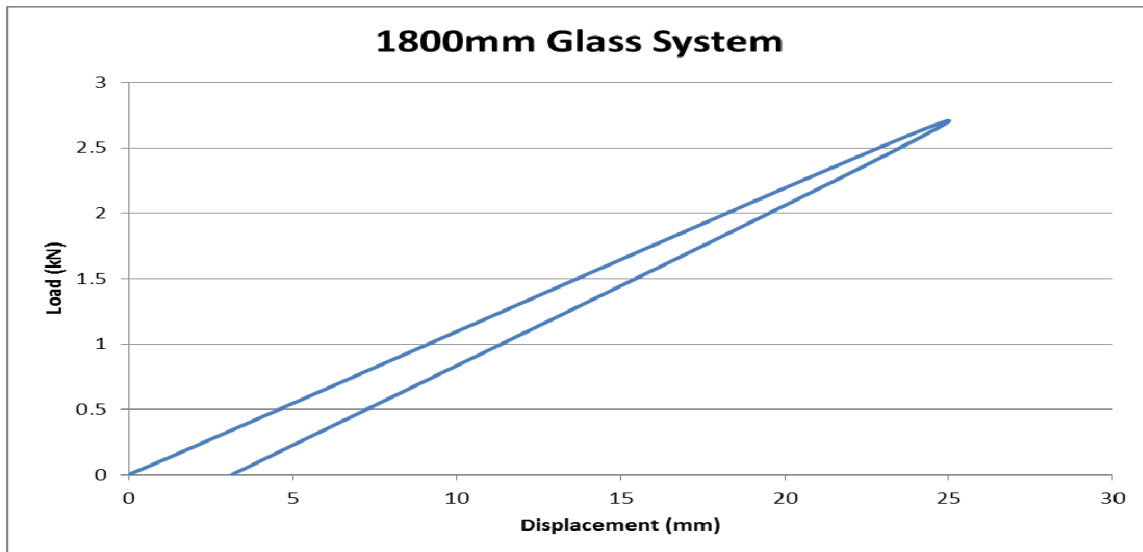
REF NO.: IR4447
JOB NO.: I7041

DATE TESTED: 25th November 2014
DATE REPORTED: 28th November 2014
CERTIFICATE DATE: 28th November 2014

TEST DETAILS:

Barrier height: 1100 mm
Material: MS-120-1800 Toughened Glass Balustrade System 1100mm * 1800mm for 1500mm opening

TEST RESULTS:



ANALYSIS:

The balustrade barrier when assembled and tested in the manor indicated within this certificate conforms to BS6180:2011 at the barrier design load of 1.5kN/m.

NAME: Steven Howell
POSITION: Instrumentation Engineer

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TEST DESCRIPTION: A horizontal UDL was applied to the balustrade at a height of 1100mm to determine the deflection of the balustrade.

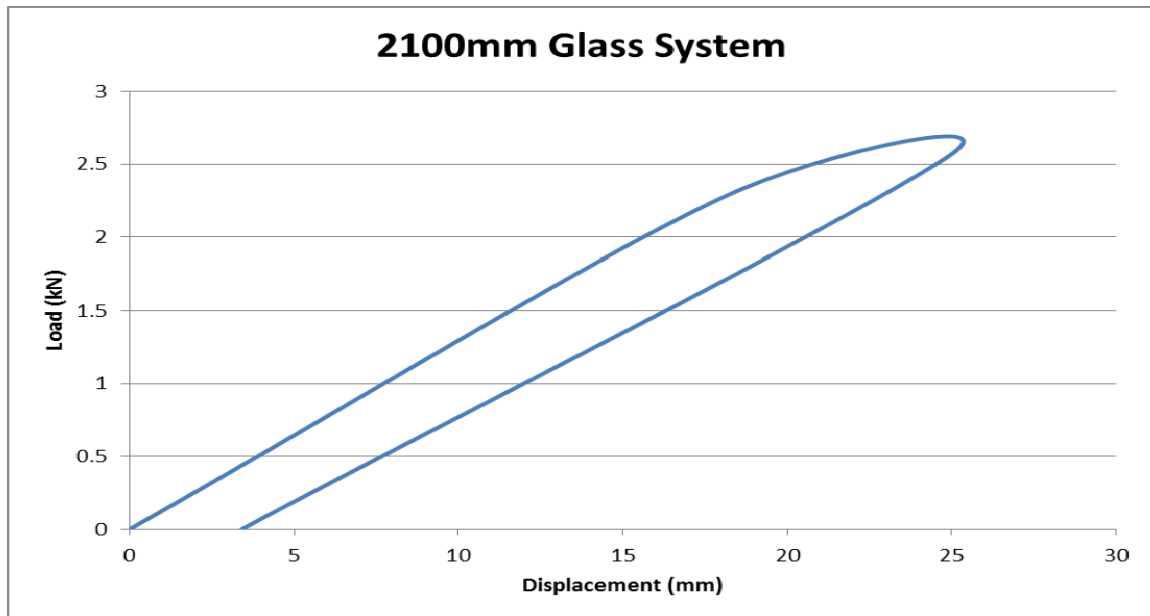
REF NO.: IR4447
JOB NO.: I7041

DATE TESTED: 25th November 2014
DATE REPORTED: 28th November 2014
CERTIFICATE DATE: 28th November 2014

TEST DETAILS:

Barrier height: 1100 mm
Material: MS-120-2100 Toughened Glass Balustrade System 1100mm * 2100mm for 1800mm opening

TEST RESULTS:



ANALYSIS:

The balustrade barrier when assembled and tested in the manor indicated within this certificate conforms to BS6180:2011 at the barrier design load of 1.5kN/m.



NAME: Steven Howell
POSITION: Instrumentation Engineer