

# Certificate of Testing



**Certificate Number:** 107/2002

**Date:** 27 September 2002

**System:** SHL-Alubin CW 55

**System manufacturer:** SHL-Alubin  
36 Yosef Levi St  
Kiryat Bialik Industrial Zone 27112  
POB 1188 Israel

- Tested for:**
- Air permeability . . . . . ✓
  - Watertightness - static . . . . . ✓
  - Watertightness - dynamic . . . . . ✓
  - Wind resistance - safety . . . . . ✓
  - Wind resistance - serviceability . . . . . ✓
  - Thermal cycling regime . . . . . ✗
  - Building movement . . . . . ✗
  - Hose test . . . . . ✗

In accordance with 'Standard and guide to good practice for curtain walling' CWCT, 1996

Signed:

..... Witness

Signed:

..... Director

**Description**

Curtain wall system: CW 55 Semi structural  
 Framing material: CW 55 Structural aluminium  
 Glass units: Single-glazed  
 Spandrel panels: None  
 Mullion - Type: S-317001  
 Box size: 8400 mm  
 Transom - Type: A-7133  
 Transom - connection: A-5090  
 Drainage and ventilation: A-5941  
 Inner seal - Type: TG-1915  
 Material: EPDM  
 Outer seal - Type: TG-1914 and structural silicone  
 Material: EPDM and one component silicone  
 Mullion bracket: 2550 mm, 3890  
 Mullion movement joint: S-317002

**Testing laboratory**

Taywood Engineering  
 Stanbridge Road  
 Leighton Buzzard  
 South Bedfordshire LU78 8QH

Registration No: UKAS No 0057

Independent testing authority: Taywood Engineering  
 Stanbridge Road  
 Leighton Buzzard  
 South Bedfordshire LU78 8QH

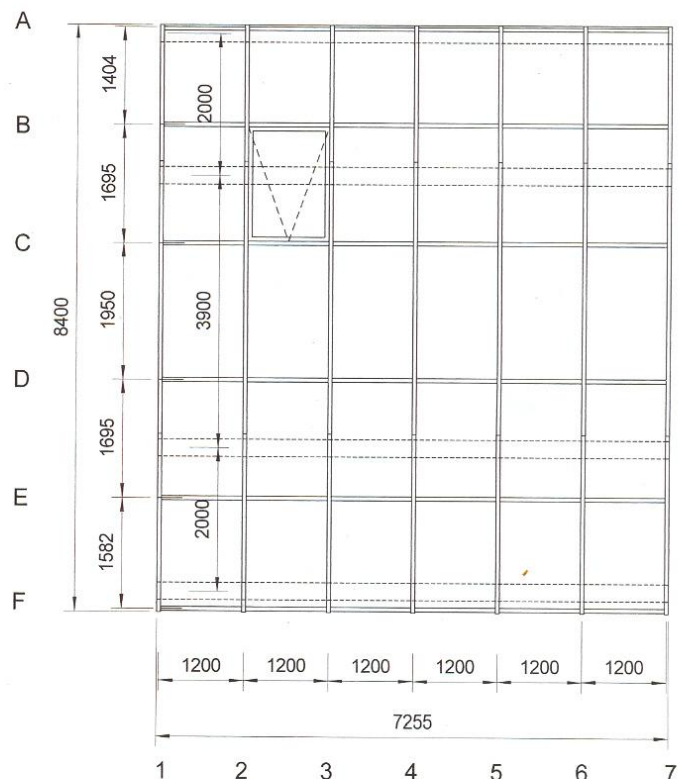
Witness: Nicholas Cattaneo  
 CWCT  
 University of Bath  
 Claverton Down  
 Bath BA2 7AY

Date of test: February 2002

**Summary of results**

Air permeability: PASS  
 Pressure: 600 Pa  
 Leakage rate (max):  
 Fixed panels 0.3 m<sup>3</sup>/hour/m<sup>2</sup>  
 Opening lights 1.17 m<sup>3</sup>/hour/m<sup>2</sup>  
 Watertightness - static: PASS  
 Test pressure: 600 Pa  
 Watertightness - dynamic: PASS  
 Wind resistance  
 Serviceability: PASS  
 Peak test pressure: 1600 Pa  
 Safety: PASS  
 Thermal cycling regime: NOT TESTED  
 External temperature range:  
 Building movement: NOT TESTED  
 Horizontal movement /stay height:  
 Vertical movement/bay  
 Hose test NOT TESTED

**Elevation from outside**



**Wind resistance - serviceability test**

Result: PASS

Pressure: 1600 Pa

**Deflections**

Member	Length L (mm)	Measured Deflection (d)				Moments of inertia I <sub>xx</sub>
		mm		D/L		
C - D4	3900	7.1	-7.0	1/549	1/557	987.5
D4 - 5	1200	0.2	-0.3	1/6000	1/4000	212.8
D3 - 4	1200	0.3	-0.2	1/4000	1/6000	212.8

**Thermal Performance NOT TESTED**

See Certificate Number

Mullion U-value:  
Glass-mullion-glass:

Spandrel-mullion  
spandrel:

Transom U-value: Glass-transom-glass:

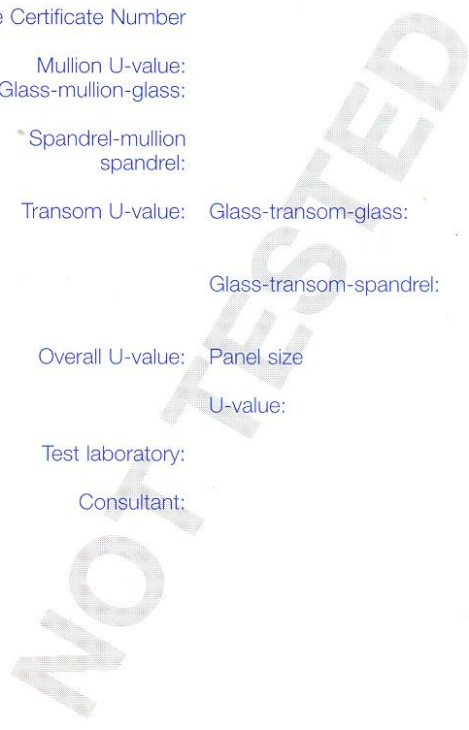
Glass-transom-spandrel:

Overall U-value: Panel size

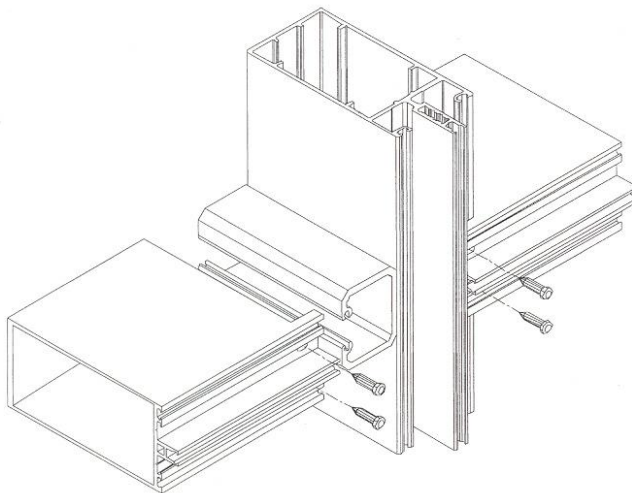
U-value:

Test laboratory:

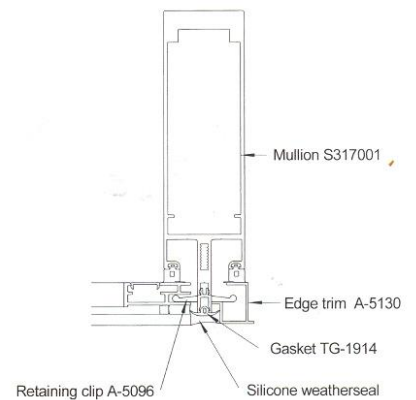
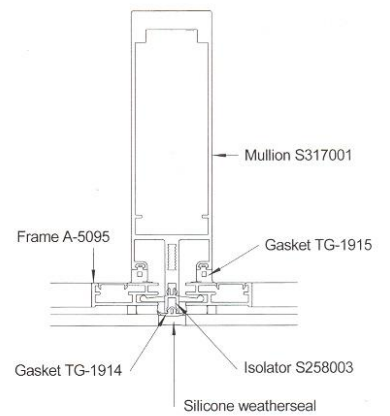
Consultant:



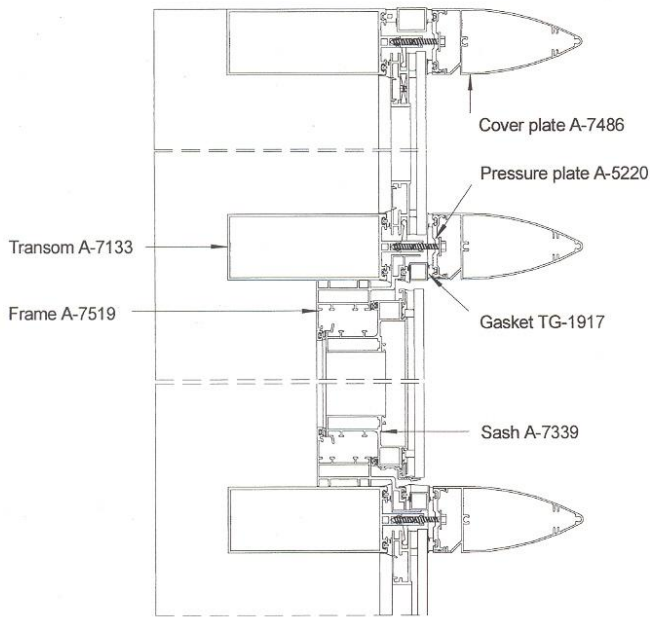
**Typical Mullion Transom Detail**



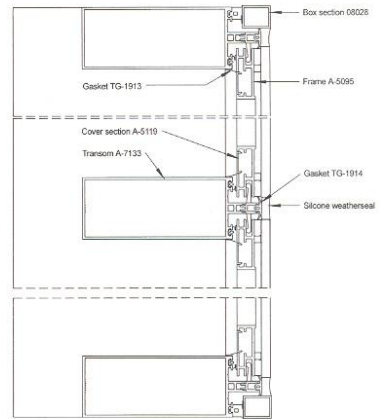
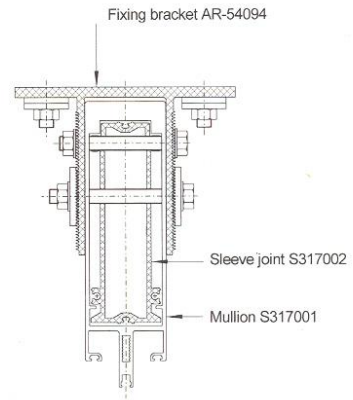
**Typical Mullion Section**



Typical Vertical Section



Fixing Brackets and Mullion Sleeve Joint



**Fabricator:** SHL-Alubin  
 36 Yosef Levi St  
 Kiriat Bialik Industrial Zone 27112  
 POB 1188 Israel

**Installer:** SHL-Alubin  
 36 Yosef Levi St  
 Kiriat Bialik Industrial Zone 27112  
 POB 1188 Israel

CENTRE FOR  
**WINDOW AND  
 CLADDING**  
 TECHNOLOGY

University of Bath  
 Claverton Down  
 Bath BA2 7AY

Telephone (01225) 826541  
 Fax (01225) 826556  
 email cwct@bath.ac.uk  
 www.cwct.co.uk