



# Technical Report – R4789906619 CWCT – Standard for systemised building envelopes – 2005

## CGL Facades

### CGL Hook-On Rainscreen System and CGL Traypanel System



## Summary of Results

The following summarises the results of testing carried out, in accordance with the relevant testing and classification standards.

Test Type	Peak Test Pressure	Result	Date of Test	Classification
Test 1 - Air Leakage – Infiltration	600 Pa	Pass	20.10.21	A4
Test 2 - Air Leakage – Exfiltration	100 Pa	N/A	20.10.21	N/A
Test 3 – Water Penetration (Static Pressure)	600 Pa	Pass	21.10.21	R7
Test 4 - Wind Resistance – Serviceability – Backing Wall	2400 Pa	Pass	01.11.21	-
Test 5 - Repeat Air Leakage – Infiltration	600 Pa	Pass	01.11.21	A4
Test 6 - Repeat Air Leakage – Exfiltration	100 Pa	N/A	01.11.21	N/A
Test 7 – Repeat Water Penetration (Static Pressure)	600 Pa	Pass	01.11.21	R7
Test 8 – Water Penetration – Dynamic Aero Engine	600 Pa	Pass	02.11.21	-
Test 9 - Water Penetration – Hose	-	Pass	02.11.21	-
Test 10 - Wind Resistance – Serviceability – Cavity	2400 Pa	Pass	03.11.21	-
Test 11 - Wind Resistance – Safety – Backing Wall	3600 Pa	Pass	03.11.21	-
Test 12 - Wind Resistance – Safety – Cavity	3600 Pa	Pass	03.11.21	-
Test 13 - Impact Resistance – Retention of Performance – Red Zone	Cat B	Class 3	04.11.21	-
Test 13 - Impact Resistance – Retention of Performance – Blue Zone	Cat B	Class 3	04.11.21	-
Test 14 - Impact Resistance – Safety to Persons – Red Zone	Cat B	Negligible Risk	04.11.21	-
Test 14 - Impact Resistance – Safety to Persons – Blue Zone	Cat B	Negligible Risk	04.11.21	-
<b>Dismantle, Inspect &amp; Report</b>	<b>Sample Passed</b>			

These results are valid only for the conditions under which the test was conducted.

All measurement devices, instruments and other relevant equipment were calibrated and traceable to National Standards.



### Description of Test Sample

The description of the test sample in this section has been supplied by the customer and has not been verified by UL International (UK) Limited.



### Product Description

Full product name:	CGL Hook-On Rainscreen System
Product type:	Rainscreen Cladding
Product description:	Hook-On Panel
Rig Size:	8m x 5m
Backing Wall Support Type:	SFS
Particle board detail:	12.5mm Siniat Weather Defence Board
Horizontal Rail Ref :	2mm Galvanised Steel Top Hat
Vertical Rail Ref :	CS2-1 Double and Single Rail
Brackets ref:	Helping Hand Brackets
Panel Material:	3mm Aluminium 1050 Grade
Max Panel Size:	h = 3830mm x w = 1380mm
Reinforcing:	Stiffener Channels

### Product Description


Full product name:	CGL Traypanel System
Product type:	Rainscreen Cladding
Product description:	Traypanel
Rig Size:	8m x 5m
Backing Wall Support Type:	SFS
Particle board detail:	12.5mm Siniat Weather Defence Board
Horizontal Rail Ref :	2mm Galvanised Steel Top Hat
Vertical Rail Ref :	CS1 Tee and Angle Rails
Brackets ref:	Helping Hand Brackets
Panel Material:	3mm Aluminium 1050 Grade
Max Panel Size:	h = 3830mm x w = 1270mm
Reinforcing:	Stiffener Channels



### Drainage

Drainage type (pressure equalised etc.):	Pressure Equalised
Drainage specification and weep holes etc.	Open Panel Corners at Rear for Drainage



This report describes tests carried in order to determine the weather tightness of the sample with respect to water penetration, wind and impact resistance on sample supplied as follow:

Test Details	
Customer:	CGL Facades 2 Young Place Kelvin Industrial Estate East Kilbride Glasgow G75 0TD
Product Tested:	Rainscreen System Test
Date of Test:	20 <sup>th</sup> and 21 <sup>st</sup> October 2021 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> November 2021
Test Conducted at:	UL International (UK) Limited Halesfield 2 Telford Shropshire TF7 4QH
Test Conducted by:	P Seymour - Laboratory Technician J Dove - Laboratory Assistant D Reynolds – Engineering Technician J Ball – Laboratory Technician
Test Supervised by:	M Witkowska - Laboratory Leader 
Test Witnessed by:	A Henderson – CGL Facades T Grimley – CGL Facades A Stewart – CGL Facades

Report Authorisation	
Report Compiled by:	D Price – Senior Engineering Associate 
Authorised by:	M Wass – Engineering Manager 

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