FP30

FP30 Plank 30mm Rainscreen Systems











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Rev 2 (Revised Report) – this report has been amended as shown in Section 10 and it replaces previous report No. R4790086764 Rev 1 dated 3rd January 2023.



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1. Introduction

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:	Spanwall Ltd
	Carryduff Business Park
	Comber Road
	Carryduff
	Belfast
	BT8 8AN
Product Tested:	SF40-FR and FP30 System Test
Date of Test:	16th, 17th and 18th November 2021
	31st January 2022
	፲ ኢካ1.8 af\d 22 nd February 2022
Test Conducted at:	UL International (UK) Limited
	Halesfield 2
	Telford
	Shropshire
	TF7 4QH
Test Conducted by:	P Seymour - Laboratory Technician
	K Alden- Senior Engineering Technician
T	DReynolds – Engineering Technician M Witkowska - Laboratory Leader
Test Supervised by:	
	Mw. Lacha
Test Witnessed by:	M O'Donohue - Spanwall Ltd

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

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2. Summary of Results

The test methods

2.1

The performance of the sample tested has been assessed against the criteria described in below standards

CWCT Standard Test Methods for Building Envelopes - Dec	ember 2005
Air Leakage (Infiltration & Exfiltration)	CWCT Section 5
Water Penetration – Static	CWCT Section 6
Water Penetration – Dynamic Aero Engine	CWCT Section 7
Water Penetration – Hose	CWCT Section 9
Wind Resistance – Serviceability	CWCT Section 11
Wind Resistance – Safety	CWCT Section 12
Impact – Retention to Performance & Safety to Persons	CWCT TN 76

2.2 Decision Rule

Classifications reported in Section 5 indicate that the product conforms with the relevant accuracy requirements of the testing standards (as summarised below) and the expanded measurement uncertainty (k= 2 for approximately 95% coverage probability) is no greater in magnitude than the accuracy requirements defined in Section 2 of CWCT Standard Test Methods for Building Envelopes.

2.3 Measurement Uncertainty

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%, and for the air leakage measurements and wind resistance measurements is +/-1.91% and for the mass of the dislodge fragments is +/-0.03%.





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2.4 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	16.11.21	A4
Test 2 - Air Leakage – Exfiltration	100 Pa	N/A	16.11.21	N/A
Test 3 – Water Penetration (Static Pressure)	600 Pa	Pass	16.11.21	R7
Test 4 - Wind Resistance – Serviceability – Backing Wall	2400 Pa	Pass	16.11.21	-
Test 5 - Repeat Air Leakage – Infiltration	600 Pa	Pass	16.11.21	A4
Test 6 - Repeat Air Leakage – Exfiltration	100 Pa	N/A	16.11.21	N/A
Test 7 – Repeat Water Penetration (Static Pressure)	600 Pa	Pass	16.11.21	R7
Test 8 – Water Penetration – Dynamic Aero Engine	600 Pa	Pass	17.11.21	-
Test 9 - Water Penetration – Hose	-	Pass	18.11.21	-
Test 10 - Wind Resistance – Serviceability – Cavity Test 11 - Wind Resistance – Safety – Cavity	2400 Pa	Pass	31.01.22	-
Test 12 - Wind Resistance – Safety – Backing Wall	3600 Pa 3600 Pa	Pass Pass	31.01.22 17.02.22	-
Test 13 - Impact Resistance - Retention of Performance Test 14 - Impact Resistance - Safety to Persons	Cat B Cat B	Class 1	17.02.22	-
		Negligible Risk	18.02.22 22:02:22	
		Misk	18.02.22	
			22.02.22	
Dismantle, Inspect & Report		Sample	Passed	

More comprehensive details are reported in Section 6.

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.





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3. 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.

See Section 7 for test sample drawings as supplied by Spanwall Ltd.

Product Description

Full product page	
Full product name:	FP30 Plank System
Product type:	FF30 Flank System
Froduct type.	Rainscreen System
Product description:	Ramscreen System
Product description.	Secret Fix Over Lapping Joint Plank System
Manufactured by:	Secret it over Eapping South Lank System
Manufactured by.	Spanwall Ltd.
	Spanwatt Lta.

Support Framing and bracketry

Support Harring and bracketry	
Material:	Aluminium Alloy 6063 T6
Finish:	Mill Finish
Vertical rail Ref:	NV-T60-100-2.2 / NV-L60-40-2.2
Horizontal rail Ref:	NV-L60-40-2.2
Fixing method (rail to backing wall):	Tek Screw
Fixing Ref:	SFS SX3/28-S16-6.0x48
Fixing method (rail to rail):	M5 Tek Screw
Fixing Ref:	Spanwall M5 Tek Screw 507
Max Span between vertical rails:	1200mm 571mm
Max Span between horizontal rails:	Spanwall Wall Bracket 300mm Single / Double
Brackets ref:	Spanwall Horizontal Wall Bracket 300mm
	Spanwait Horizontal Wall Bracket 300mm

Panels/tiles/brickslip

Material:	Aluminium 3103 H14 Mill Finish 3mm N/A 620
Material ref (source, spec):	Landscape 3655 Portrait (Grid Centre Size) 3000
Finish:	Landscape 420 Portrait (Grid Centre Size) 1.788
Thickness:	m2 Discreet Fix in overlapping joint secured with
Reinforcing:	Low Profile Tek Screw N/A
Max height of panel:	Spanwall SX3-D12-5.5x30
Max width of panel:	
Max size of panel by area (m2):	
Fixing method:	
Dun alvat fallin wafe	
Bracket/clip ref:	
Screws/fixings ref:	

Interface Details (curtain wall to window/door inserts)

Window interface detail:	As per Drawing
Door interface detail:	As per Drawing

Backing Wall

Structural support type:	SFS N/A N/A Proctor Procheck FR200 As above RCM
Insulation type:	Y-Wall 12mm SikaTack Panel / Proctor Reflectafoi
Insulation thickness:	Tape 100mm Soudal Fix All Crystal
Airtight membrane:	
Watertight membrane:	
Particle board detail:	
Sealants and tapes:	





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Fixings ref: Rufpert DF3 CSK Wing Driller Light 4.8 x 38	
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Drainage

Drainage type (pressure equalised etc.):	Pressure Equalised
Drainage specification and weep holes etc.	8.5mm Weep Holes in Bottom Return of Panels

Additional brackets & Fixings

Ref:	Spanwall Flashings 3mm Aluminium

Product Description

1 reduct Beson priori	
Full product name:	SF40-FR
Product type:	Rainscreen System
Product description:	Ventilated Rainscreen System with 40mm Deep
Manufacture diam	Panel
Manufactured by:	Spanwall Ltd.

Support Framing and bracketry

Support Framing and Stackerry	Support Framing and Bracketry	
Material:	Aluminium Alloy 6063 T6	
Finish:	Mill Finish	
Vertical rail Ref:	NV-T60-100-2.2 / NV-L60-40-2.2	
Horizontal rail Ref:	N/A	
Fixing method (rail to backing wall):	Tek Screw	
Fixing Ref:	SFS SX3/28-S16-6.0x48	
Fixing method (rail to rail):	M5 Tek Screw	
Fixing Ref:	Spanwall M5 Tek Screw 507	
Max Span between vertical rails:	948mm	
Max Span between horizontal rails:	N/A	
Brackets ref:	Spanwall Wall Bracket 300mm Single / Double	

Panels/tiles/brickslip

Tanets/ tites/ brickstip	
Material:	Aluminium
Material ref (source, spec):	3103 H14
Finish:	Mill Finish
Thickness:	3mm
Reinforcing:	3mm Aluminium Stiffeners as per drawings
Max height of panel:	1420 Landscape 2900 Portrait (Grid Centre Size)
Max width of panel:	2920 Landscape 1395 Portrait (Grid Centre Size)
Max size of panel by area (m2):	4.118 m2
Fixing method:	Discreet Fix in shadow gap secured with Low
8	Profile Tek Screw
Bracket/clip ref:	Spanwall 505 / 506
Screws/fixings ref:	Spanwall SX3-D12-5.5x30

Interface Details (curtain wall to window/door inserts)

Window interface detail:	As per Drawing
Door interface detail:	As per Drawing

Backing Wall

Dacking watt	
Structural support type:	SFS N/A N/A Proctor
Insulation type:	Procheck FR200 As
Insulation thickness:	above RCM Y-Wall 12mm
Airtight membrane:	
Watertight membrane:	
Particle board detail:	





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Sealants and tapes:	SikaTack Panel / Proctor Reflectafoil Tape 100mm Soudal Fix All Crystal
Fixings ref:	Rufpert DF3 CSK Wing Driller Light 4.8 x 38

Drainage

<u> </u>	
Drainage type (pressure equalised etc.):	Pressure Equalised
Drainage specification and weep holes etc.	8.5mm Weep Holes in Bottom Return of Panels

Additional brackets & Fixings

Ref:	Spanwall Flashings 3mm Aluminium

Drawings

Drawing/s must be provides covering the below;	As detailed in section 7
-Full drawing of sample including front	
elevation -Cross Sections (Panels/Rails Etc.) -Hardware Locations -Fixings -Drainage Points	
Note: drawings are required to show all	
relevant dimensions. Test sample size:	
1001 00111710 01201	As detailed in section 7

Confirmation

Customer is to confirm that the samples provided for testing are representative of standard production. Please note: the details given above, as well as the drawings supplied by the customer as confirmed as typical of normal production are not verified by UL International (UK) Limited.

Company:	Spanwall Ltd
Name:	Justin Reid
Position:	Design Manager
Date:	22nd March 2022





SPANWALL

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