

CENTRE FOR WINDOW AND CLADDING TECHNOLOGY (CWCT) TESTS



CWCT (Centre for Window & Cladding Technology) Standard Test Methods for Building Envelopes determine the level of serviceability of a façade or rainscreen cladding system when subjected to typical climatic levels of water, air and solid object impact. The final classifications derived from the results depend on factors such as the maximum air pressure reached or the severity of damage after an impact.

Please see below a result and classification summary for our Unity range of rainscreen cladding systems.

UNITY TF

Through fixed, flat aluminium rainscreen system. Tested by Vinci Technology Centre, Feb 2021

SUMMARY OF TEST RESULTS

Test Number	Test Description	Result
1	Wind resistance – serviceability	PASS
2	Wind resistance – safety	PASS
3	Watertightness - dynamic	PASS
4	Impact resistance	PASS

CLASSIFICATION

Test	Test Description	Result
Watertightness dynamic	CWCT dynamic	600 pascals
Wind resistance	CWCT / BS EN 13116	+/- 2400 pascals serviceability +/- 3600 pascals serviceability
Impact Resistance	CWCT TN76	Class 2 serviceability Low risk safety

UNITY DF

Discrete fix aluminium rainscreen system. Tested by Vinci Technology Centre, Mar 2021

SUMMARY OF TEST RESULTS

Test Number	Test Description	Result
1	Wind resistance – serviceability	PASS
2	Wind resistance – safety	PASS
3	Watertightness - dynamic	PASS
4	Impact resistance	PASS

CLASSIFICATION

Test	Test Description	Result
Watertightness dynamic	CWCT dynamic	600 pascals
Wind resistance	CWCT / BS EN 13116	+/- 2400 pascals serviceability +/- 3600 pascals serviceability
Impact Resistance	CWCT TN76	Class 1 serviceability Negligible risk safety

UNITY SF

Secret fix, hook-on aluminium rainscreen system. Tested by Vinci Technology Centre, Mar 2021

SUMMARY OF TEST RESULTS

Test Number	Test Description	Result
1	Wind resistance – serviceability	PASS
2	Wind resistance – safety	PASS
3	Watertightness - dynamic	PASS
4	Impact resistance	PASS

CLASSIFICATION

Test	Test Description	Result
Watertightness dynamic	CWCT dynamic	600 pascals
Wind resistance	CWCT / BS EN 13116	+/- 2400 pascals serviceability +/- 3600 pascals serviceability
Impact Resistance	CWCT TN76	Class 1 serviceability Negligible risk safety

UNITY F2F Framing

Floor to floor spanning framing system. Tested in conjunction with the Unity TF and Unity SF rainscreen systems by Vinci Technology Centre, Feb 2021

SUMMARY OF TEST RESULTS

Test Number	Test Description	Result
1	Wind resistance – serviceability	PASS
2	Wind resistance – safety	PASS
3	Watertightness - dynamic	PASS
4	Impact resistance	PASS

CLASSIFICATION

Test	Test Description	Result
Watertightness dynamic	CWCT dynamic	600 pascals
Wind resistance	CWCT / BS EN 13116	+/- 2400 pascals serviceability +/- 3600 pascals serviceability
Impact Resistance	CWCT TN76	Class 2 serviceability Low risk safety

For a copy of the Technical Reports, please contact us on unity@metalline.co.uk