TECHNICAL DATA SHEET

UNITY Aluminium Rainscreen Panels with PPC finish

Fire Performance

Reaction to fire: A2-s1,d0 to BS EN13501-1

Field of Application:

25 colours were tested to BS EN ISO 1716: 2018 of varying mass/density, composition and organic content in order to ascertain the worst case GHC (Gross Heat of Combustion).

BS EN 13823:2020+A1:2022 (SBI) testing conducted on PPC Aluminium panels mechanically fixed to aluminium rails with a 15mm to 40mm air gap and a mineral wool substrate. Horizontal and vertical joints were incorporated within the test specimen.

Component	Covered within A2-s1,d0 classification
Thickness of the aluminium	Valid for 3 mm or greater
Thickness of the coating	Valid for 60 - 120 µm
Asymmetry	Valid for fire on either side
Colour	Valid for all colours
Substrate	Mineral wool plus valid for any substrate of class A1 or A2-s1,d0 with a density of at least 37.5 kg/m^3
Airgap/ cavities	Valid with airgap/ cavities of at least 15 mm between the product and the substrate
Size and positioning of the test specimen	Valid for all product sizes
Joints	Valid for horizontal and vertical joints as tested

CWCT Testing

Metalline's Unity range of rainscreen cladding have all been successfully tested to CWCT standards for wind resistance (serviceability and safety), dynamic water resistance and impact resistance (hard body and soft body).

Unity systems tested include:

Unity TF (Through Fix), Unity DF (Discrete Fix), Unity SF (Secret Fix), Unity PS (Plank/Soffit), Unity IL (Interlocking), X-TRU (Extruded Plank).