



Nvelope Rainscreen Cladding Systems Ltd Aluminium Brackets and Rails – Performance in fire

NVELOPE rainscreen cladding support brackets and rails are made of non-combustible, sustainable aluminium, which does not burn. It remains structurally intact to about 250 degrees Centigrade and melts only at around 660 degrees Centigrade.

NVELOPE cladding brackets and rails are made of aluminium EN AW-6005a T6 and comply with BS EN 755 as well as the common regulations for ventilated façades in Europe.

Aluminium is significantly less responsive to heat than steel. Around double the amount of heat is required to bring aluminium up to a certain temperature than is required by steel.

Where an aluminium structure is exposed to the heat of a fire, the relatively high thermal conductivity enables the heat to be rapidly conducted away from the exposed area.

Aluminium also has high reflectivity, of around 80-90%, assisting in prolonging the endurance of a building on fire.

Further information can be found on our web site - UK Aluminium Industry Fact sheet 11 – Aluminium and Fire www.nvelope.com/documents/aluminium-and-fire.pdf

NVELOPE rainscreen support systems are covered by British Board of Agreement (BBA) certificate no. 09/4678.

Re Requirement: B4(1) External fire spread
Comment: The system is judged to meet the Class 0 requirements. **See section 7.1 of this Certificate.**

7.1 The aluminium brackets, rails, and associated fixings are noncombustible and, therefore, may be regarded as having a Class 0 surface in relation to The Building Regulations 2000 (as amended) (England and Wales), Approved Document B, and a 'low risk' material as defined in The Building (Scotland) Regulations 2004 (as ammended), Annex 2C.

Further information can be found at www.nvelope.com, and www.alfed.org.uk