AS 5113 Full Scale Façade Fire Test- Comparison Alpolic NC Vs Solid Aluminium

Preliminary Observations

Sample 1:	3.0mm Solid Aluminium			Sample 2: 4.0mm Mitsubishi ALPOLIC NC			
Classification Criteria	Related Classification Measure	Pass/Fail		Classification Criteria	Related Classification Measure	Pass/Fail	
5.4.5(a)T _{wSm}	≤600°C	Max 620.1 *C	Fail	5.4.5(a)T _{w5m}	≤600°C	Max 673.5°C @ 7 min for 6 seconds	PASS
5.4.5(b)T _{cavity5m}	≤250°C	Max 344.6°C	Fail	5.4.5(b)T _{cavitySm}	≤250°C	Max 235.3°C @ 16 min	PASS
5.4.5(b)Tinsulation5m	≤250°C	Max 262.6°C	Fail	5.4.5(b)T _{insulationSm}	≤250°C	Max 154°C @ 19 min	PASS
5.4.5(c)Tunexposedside0.9m	≤180°C	Max 980.2°C	Fail	5.4.5(c)Tunexposedside0.9m	≤180°C	Max 28.8°C @ 22 min	PASS
5.4.5(d)flaming	No flaming	No flaming	PASS	5.4.5(d)flaming	No flaming	No flaming	PASS
5.4.5(d)openings	No openings	Openings	Fail	5.4.5(d)openings	No openings	No openings	PASS
5.4.5(e)spread	No spread beyond specimen	No spread occurre	ed PASS	5.4.5(e)spread	No spread beyond specimen	No spread occurred	PASS
5.4.5(f)debris flaming	≤20s	Flaming debris	Fail	5.4.5(f)debris flaming	≤20s	No Flaming debris	PASS
5.4.5(g)debris mass	≤2kg	Total 43.5kg of debris (largest piece 23kg	Fail	5.4.5(g)debris mass	≤2kg	Total 6.65kg of debris (largest piece 180g)	fail