

ALPOLIC Fire test results according to BS8414



BS8414 Results with various ACM and Insulation

Impact of Material Combination with Rivet Fixed

Test No.	Test date	ACM		Insulation / Air cavity	Fixing	Test termination	Result (BR135)
		Brand	Core				
MHCLG1	23 Jul 2017	Reynobond	PE	PIR 100 / 55 mm Poly-isocyanurate Foam	Rivet Fix 20mm joint	08:45	✗ Failed
MHCLG2	30 Jul 2017	Reynobond	PE	RW 180 / 55 mm Rockwool	Rivet Fix 20mm joint	07:09	✗ Failed
MHCLG3	30 Jul 2017	ALPOLIC	fr	PIR 100 / 55 mm Poly-isocyanurate Foam	Rivet Fix 20mm joint	25:12	✗ Failed
MHCLG7	13 Aug 2017	ALPOLIC	fr	PF 100 / 55 mm Phenolic Foam	Rivet Fix 20mm joint	28:14	✗ Failed
MHCLG4	6 Aug 2017	ALPOLIC	fr	RW 180 / 55 mm Rockwool	Rivet Fix 20mm joint	> 30:00	✓ Passed
MHCLG5	6 Aug 2017	ALPOLIC	A2	PIR 100 / 55 mm Poly-isocyanurate Foam	Rivet Fix 20mm joint	> 30:00	✓ Passed
MCC1	9 Oct 2017	ALPOLIC	A2	PF 100 / 55 mm Phenolic Foam	Rivet Fix 20mm joint	>30:00	✓ Passed
MHCLG6	16 Aug 2017	ALPOLIC	A2	RW 180 / 55 mm Rockwool	Rivet Fix 20mm joint	> 30:00	✓ Passed

Reproduction
of Grenfell case

BS8414 Results with ALPOLIC/fr Conducted at BRE, UK

Test No.	Test date	ACM		Insulation / Air cavity	Fixing	Test termination	Result (BR135)
		Brand	Core				
MHCLG3	30 Jul 2017	ALPOLIC	fr	PIR 100 / 55 mm Poly-isocyanurate Foam	Rivet Fix 20mm joint	25:12	✗ Failed
MHCLG7	13 Aug 2017	ALPOLIC	fr	PF 100 / 55 mm Phenolic Foam	Rivet Fix 20mm joint	28:14	✗ Failed
KSIL3	7 Nov 2017	ALPOLIC	fr	PF 100 / 55 mm Phenolic Foam	Rivet Fix 10mm joint	> 30:00	✓ Passed
KSIL1	9 Oct 2017	ALPOLIC	fr	PF 100 / 55 mm Phenolic Foam	Rivet Fix 4mm joint	> 30:00	✓ Passed
MHCLG4	6 Aug 2017	ALPOLIC	fr	RW 180 / 55 mm Rockwool	Rivet Fix 20mm joint	> 30:00	✓ Passed
MCC5	7 Nov 2017	ALPOLIC	fr	RW 180 / 55 mm Rockwool	Hook-on Cassette 20mm joint	> 30:00	✓ Passed

BS8414 Results with various ACM and Insulation Impact of Material Combination with Hook-on Cassette

Test No.	Test date	ACM		Insulation / Air cavity	Fixing	Test termination	Result (BR135)
		Brand	Core				
MCC5	7 Nov 2017	ALPOLIC	fr	RW 180 / 55 mm Rockwool	Hook-on Cassette 20mm joint	> 30:00	✓ Passed
MCC6	4 April 2018	ALPOLIC	A2	RW 180 / 55 mm Rockwool	Hook-on Cassette 20mm joint	> 30:00	✓ Passed
MCC7	1 March 2018	ALPOLIC	A2	PF 100 / 55 mm Phenolic Foam	Hook-on Cassette 20mm joint	> 30:00	✓ Passed

BS8414 Results with ALPOLIC NC/A1 and others Conducted at SIRIM, Malaysia

Test No.	Test date	ACM / Facade		Air cavity (no insulation)	Fixing	Test termination	Result (SIRIM)
		Brand	Core				
SIRIM1	4 Nov 2019	ALPOLIC	fr	100 mm	Hook-on Cassette 12 mm joint	> 30:00	✓ Passed
SIRIM3	16 Dec 2019	ALPOLIC	fr	150 mm	Hook-on Cassette 12 mm joint	>30:00	✓ Passed
SIRIM2	3 Dec 2019	ALPOLIC	A2	150 mm	Hook-on Cassette 12 mm joint	>30:00	✓ Passed
SIRIM4	20 Jan 2020	ALPOLIC	NC/A1	200 mm	Hook-on Cassette 12 mm joint	> 30:00	✓ Passed