

**FLAMEOUT® BREATHE** membrane is breathable, non-woven fabrics with superior self-extinguishing, flame retardant properties, available in two grades of FR rating. It is independently tested to EN 13501-1 and is suitable for wall and roof installations. **SAFE ONE®** is the UK's first noncombustible breather membrane, independently tested to EN 13501-1.

**FLAMEOUT® VCLs** are polyethylene-based vapour control membranes with a reinforcement scrim to provide sufficient tensile strength in wall and roof insulations. They are independently tested to British and international flame retardant standards. Air and Vapour Control Layers (AVCLs) ensure that the building envelope is properly sealed to control ventilation and prevent heat loss in compliance with Building Regulations Part L. Installed on the warm side of insulation, AVCLs protect insulates from interstitial condensation.

PRODUCT	Flame Retardant EN 13501-1	Colour	Application	Weight EN 1849-2 gsm	Tensile strength EN 12311-1 N/50mm	Temperature range °C	Water vapour resistance EN ISO 12572	Water vapour transmission	Resistance to Penetration of Air EN 12114 m3(m2/h/50Pa)	Water tightness EN 1928 (A) Class	Sizes metres	Roll weight kg	Pallet quantity
<b>NONCOMBUSTIBLE &amp; FLAME RETARDANT BREATHER MEMBRANES FOR WALL &amp; ROOF INSTALLATIONS</b>													
<b>FlameOut Breathe</b>	Class B-s1,d0	Dark grey	NA	90	MD 170 XD 140	NT	NA	Sd 0.02m EN ISO 12572 BS 4016 Class 1	<0.1	W1	1.5 x 50 3.0 x 50	7.2 14.0	28 28
<b>Safe One (SF400)*</b>	Class A2-s1,d0	Black	Openings <50mm Overall exposure not to exceed 50% of the surface area	310	MD 1400 XD 1400	-30/	NA	Sd <0.30m EN ISO 12572	NA	W1	2.65 x 20	18.0	25
<b>FLAME RETARDANT VAPOUR CONTROL LAYERS FOR WALL &amp; ROOF INSTALLATIONS</b>													
<b>FlameOut Block</b>	Class B-s1,d0	Milky White	NA	140	MD>500 XD>500	-40/+70	70 MNs/g	Sd 28m EN 1931 1.56 g/m <sup>2</sup> /day BS 3177	NA	NA	2 x 50	14.5	52
<b>FlameOut Block Plus</b>	Class B-s1,d0	Milky White	NA	210	MD>500 XD>500	-40/+70	130 MNs/g	Sd 60m EN 1931 0.77 g/m <sup>2</sup> /day BS 3177	NA	NA	2 x 50	21.5	46

**NOTE:** As per EN 13859-2, Clause 5.2.2, in the case of the breather membrane or VCL being used on a supporting structure, further flame retardant testing of the structure may be needed to determine the flame retardancy of the construction due to a possible different flame retardancy of the supporting construction materials itself (e.g. wood). Safe One is Class A2-s1,d0 when free hanging or directly installed on a supporting substructure with a flame retardant classification of A1 or A2. FlameOut Breathe FR is Class B-s1,d0 when free hanging or directly installed on a supporting substructure with a flame retardant classification of A1 or A2. FlameOut Breathe has been tested directly installed onto wood as Class D-s1,d0. FlameOut Block FR and FlameOut Block FR Plus are Class B-s1,d0 when free hanging or directly installed on a supporting substructure with a flame retardant classification of A1 or A2.

**\*Important:** Register your warranty with ITP prior to installation. Separately provided Installation instructions provided by the Safe One Technical Team must be complied with to validate any warranty. Safe One proprietary adhesives, tapes and accessories must be used to validate any warranty.

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