

# Procheck® A2

## VAPOUR CONTROL LAYER

### DESCRIPTION

Procheck A2, is a vapour and airtight membrane. Procheck A2, with its Class A2-s1,d0 fire classification to BS EN 13501-1, is considered non-combustible with no contribution to fire. Its composition comprises of the glass fibre backing, with a pure aluminium foil and clear lacquer coating. This composition affords the membrane its Class A2 performance as well as giving it a high degree of vapour controlling properties. The membrane comes with a high vapour resistance, as well as being airtight, which allows its use as an AVCL in the construction. Providing high levels of airtightness can ensure the thermal efficiency of the building.

The integral foil layer, with its protective clear lacquer coating, gives this A2 membrane the unique added benefit of having a low emissivity surface. This means that the membrane, when installed with the foil face next to a service cavity, with a minimum depth of 19mm, will provide additional thermal performance to the overall wall construction.

Procheck A2 air and vapour tight membrane improves energy efficiency and reduces the risk of condensation.

### LEGISLATION

Changes in Approved Document B, introduced in December 2018, have recommended that all materials used in the external structure layer should have a minimum performance to BS EN 13501-1 of A2-s1,d0. Procheck A2 provides this level of compliance despite the case that there is a slight relaxation in the requirements that allow membranes to have a minimum requirement of Class B-s3,d0 or better. Most VCL's, being primarily constructed of polyethylene, will not meet this enhanced classification due to their combustible nature and resulting contribution to fire load, which makes Procheck A2 an ideal choice in all high rise constructions or those concerned with the combustibility of the membrane components.

Scottish Regulations now classify high rise as any building over 11m, and require the limited combustibility parameters to be met in all those buildings that meet this criteria. Wales have followed England's lead by introducing a similar ban on combustible materials in cladding for buildings over 18m.



### KEY FEATURES

- Reaction to Fire classification to A2,s1-d0
- Water vapour diffusion tight
- Reflective material, emissivity <0.05
- Clear lacquered aluminium surface allows for low emissivity surface
- Easy to install
- Robust and able to withstand tough site conditions
- BRE approval in buildings over 18m in England and Wales, and over 11m in Scotland

## PROPERTIES

Property	Test Method	Mean Results
Roll Size	-	1.5m x 50m
Weight	EN 1849-2	165 g/m <sup>2</sup>
Sd value	EN 1931	> 1500m
Reaction to fire	EN 13501-1	A2-s1,d0
Water tightness	EN 1928	WI
Tensile strength	EN 12311-1	MD 700 N/50mm CD 400 N/50mm
Elongation	EN 12311-1	MD 3% CD 3%
Tear resistance	EN 12310-1	MD 170N CD 130N
Thermal resistance of an adjacent airspace	-	0.606 m <sup>2</sup> K/W
Emissivity	-	<0.05

## APPLICATION

Procheck A2 can be used on the internal face of a wall, behind the internal lining i.e. plasterboard., in the same position as standard/traditional VCL's. If installed with a service cavity an enhanced thermal resistance of the associated airspace can be accounted for in the U value calculations for the element. The use of a service cavity is also good practise for use with VCL's as they reduce the risk of subsequent damage by ongoing trades once the membrane is installed.

Alternatively, the Procheck A2 can be used on the external face of sheathing, if an SFS type scenario is being followed i.e. where the thermal insulation is going on the external face of the frame, prior to the insulation and rainscreen cladding. In this situation additional thermal benefit from a low emissivity surface will be difficult to include due to the insulation being installed directly over the face of the membrane. The A Proctor Group do have a range of alternative products for this area that may supply a better solution for moisture management within the construction. Please speak to our technical department for further information and guidance.

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