

ETA-Danmark A/S Göteborg Plads 1 DK-2150 Nordhavn Tel. +45 72 24 59 00 Internet www.etadanmark.dk Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011



European Technical Assessment ETA-21/0047 of 2021/01/01

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

Protecta FR Board

Product family to which the above construction product belongs:

Fire Stopping and Sealing Product:

Penetration Seals

Manufacturer: Polyseam Ltd

15. St. Andrews Road

Huddersfield, West Yorkshire

HD1 6SB, UK

Manufacturing plant: Polyseam Ltd

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This European Technical Assessment contains:

92 pages including 2 annexes which form an integral

part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No

EAD 350454-00-1104, September 2017.

This version replaces:

3 Performance of the product and references to the methods used for its assessment

Product-type: Sealant		Intended use: Penetration Seal				
Assessment method	Essential characteristic		Product Performance			
BWR 2 Safety in case of fire						
	Reaction to fire		D – s1, d0			
	Resistance to fire		Annex A			
BWR 3 Hygiene, health and environment						
	Air permeability		Annex B			
	Water permeability		No performance assessed			
	Release of dangerous substances		Declaration of manufacturer			
BWR 4 Safety in use						
	Mechanical resistance and stability		No performance assessed			
	Resistance to impact/movement		No performance assessed			
	Adhesion		No performance assessed			
	Durability		Y ₁			
BWR 5 Protection against noise						
	Airborne sound insulation		29 (-1;-3) dB ¹			
		29 (0;-2) dB ²				
		52 (-4;-7) dB ³				
			53 (-4;-7) dB ⁴			
BWR 6 Energy economy and heat retention						
	Thermal p	properties	No performance assessed			
	Water vapour permeability		No performance assessed			

¹ Single 50mm FR Board 2-S.

² Single 60mm FR Board 2-S

³ Double 50 or 60mm FR Board 1-S or 2-S

 $^{^{\}rm 4}$ Double 50 or 60mm FR Board 1-S or 2-S with 50mm cavity

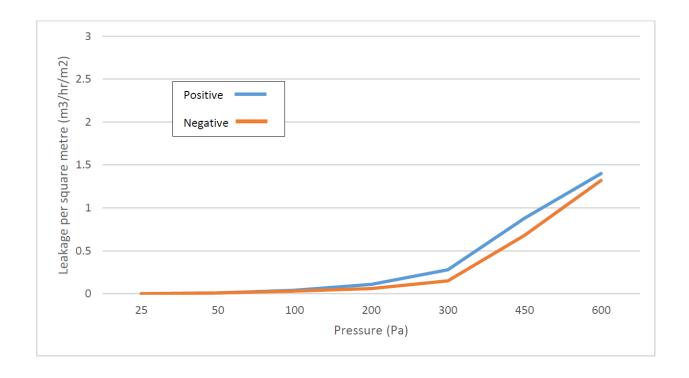


Protecta® FR Board has been tested at Warringtonfire Testing and Certification Ltd (UKAS accredited); according to EN 1026: 2016 under the UK Construction Products Regulations 2013 (Basic Works Requirements BWR 3) and has negligible (<0.1m³/h) air permeability up to 200Pa of pressure (10 x furnace pressure required under AS1530).

Firestop Centre Ltd systems using Protecta FR Board 2-S (50mm or 60mm) are therefore rated **SMOKE-SAFE** systems.

ANNEX B – Air Permeability – Protecta FR Board

Product tested	1200mm high x 600mm wide Protecta FR Board 50mm 2-S			
Summary of testing procedure			Result	
	Pressure (Pa)	Leakage (m³/h)	Leakage (m³/m²/h)	
Results under negative chamber pressure	25	0.00	0.00	
	50	0.01	0.01	
	100	0.02	0.03	
	200	0.04	0.06	
	300	0.11	0.15	
	450	0.49	0.68	
	600	0.95	1.32	
Results under positive chamber pressure	25	0.00	0.00	
	50	0.01	0.01	
	100	0.03	0.04	
	200	0.08	0.11	
	300	0.2	0.28	
	450	0.63	0.88	
	600	1.01	1.40	



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