

Declaration of Performance

No.: **PS-14019(3)**

1. Unique identification code of the product-type:

Graft FR Board

2. Type, batch or serial no. or any other element allowing identification of the construction product as required pursuant to article 11(4):

EN 1366-3: Penetration seals

EN 13501-2: EI240 Fire resistance classification

2.1 Graft FR Board is supplied in 600mm x 1200mm boards. The Graft FR Board is supplied in a multitude of thicknesses and is coated on one face, referenced 1-S, or on both faces, referenced 2-S.

2.2 In accordance with article 11(4) all products are supplied with product code, date of manufacture and with all manufacturing processes traceable through Polyseam's factory production controls (FPC) held in the product technical files.

3. Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-2 (penetration seals).

3.1 The intended use of Graft FR Board is to reinstate the fire resistance performance of flexible wall, rigid wall and floor constructions where they are penetrated by various cables, metallic pipes, composite pipes and plastic pipes.

3.2 The specific elements of construction that the system Graft FR Board may be used to provide a penetration seal in, are as follows:

- Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel studs lined on both faces with minimum 2 layers of 12.5 mm thick boards.
- Rigid walls: The wall must have a minimum thickness of 100 mm (unless otherwise stated in ETA 14/0034) and comprise, aerated concrete or masonry, with a minimum density of 650 kg/m³.
- Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

3.3 The System Graft FR Board may be used to provide a penetration seal with cables, cable trays, metallic pipes, composite pipes and plastic pipes, with and without insulation (for details see ETA 14/0034 Annex A).

3.4 The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

3.5 The system Graft FR Board may be used to seal apertures in the separating element up to 2400mm wide by 1200mm high in a wall, and 2400mm by 1200 mm in a floor. The minimum permitted separation between adjacent seals/apertures is 200mm unless otherwise stated. Services within the system Graft FR Board seal do not require a minimum separation, except where specifically detailed in ETA 14/0034 Annex A.

3.6 Services in floors shall be supported at 250mm and 400mm from the top face. Services in walls shall be supported at 270mm and 470mm from both faces of the wall.

3.7 The provisions made in the European Technical Assessment (14/0034) are based on an assumed working life of the Graft FR Board of 10 years, however provided that the conditions laid down in the manufacturers' instructions and datasheet for the packaging/ transport/ storage/ installation/ use/ repair are met . The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, but are to be regarded only as a means for choosing the correct products in relation to the expected economically reasonable working life of the works.

3.8 Type Z2: Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11(5):

Polyseam Ltd.
Shaw Park
Silver Street
Huddersfield
West Yorkshire
United Kingdom
HD5 9AF

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

Not applicable

6. System or systems of assessment and verification of consistency of performance of the construction product as set out in annex V:

AVCP-System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

Not applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical assessment has been issued:

This Declaration of Performance has been prepared in accordance with the guidelines set out within ETAG 026 part 1 and 2 (penetration seals).

ETA 14/0034 prepared by UL International (UK) Ltd notified body 0843
EC Certificate of conformity 0843-CPR-0140

9. Declared performance:

Product –type: Sealant	Intended use: Fire stopping seal	
Essential characteristics	Performance	Test Standard
Reaction to Fire	Class F (not tested)	EN 13501-1
Resistance to Fire	ETA 14/0034 Annex A	EN 13501-2
Air permeability (material property)	NPD	EN 1026:2000
Water permeability (material property)	NPD	ETAG 026-2 Annex C
Release of dangerous substances	Complies to M1 Protocol Report: 392-2014-00000407B	BREEAM Norway
Mechanical Resistance and stability	NPD	EOTA TR 001:2003
Resistance to impact/movement	NPD	EOTA TR 001:2003
Adhesion	NPD	EOTA TR 001:2003/ISO 11600
Airborne sound insulation	Rw = 58dB 2-S 50mm board single sided seal	EN 10140-2
Impact sound insulation	NPN	EN 10140-3
Thermal properties	NPD	EN 12664, EN12667, or EN12939
Water vapour permeability	NPD	EN ISO 12572, EN 12086
Durability and serviceability	Z ₂	ISO 8339:2005, ISO 9046:2004 & ISO 7389
Flexibility	Pass	ETAG 026 pt2 B.5.5

10. The performance of the product identified in points 1 and 2 is in conformity with the performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed on the behalf of the manufacturer by:

Neil Heffernan, Product Certification Manager
(name and function)

A handwritten signature in black ink, consisting of a large, stylized initial 'N' followed by several loops and a long horizontal stroke extending to the right.

London, 26/05/15
Place and date of issue

Signature