

Declaration of Performance

No.: **PS-14016**

1. Unique identification code of the product-type:

Protecta® FR Graphite

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

See packaging for batch no.

- 2.1 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. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer, and in accordance with the applicable European Assessment Document: EAD 350454-00-1104 (penetration seals):

- 3.1 The intended use of system Protecta FR Graphite is to reinstate the fire resistance performance in various different walls and floor constructions where they are penetrated by various steel and plastic pipes with and without insulation, cables with and without cable trays.

- 3.2 The specific elements of construction that the system Protecta FR Graphite 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 or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Timber walls: The wall must have a minimum thickness of 100 mm and comprise solid wood or cross-laminated timber.

Rigid walls: The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³ unless otherwise stated in the following country document approvals:

- UK use only, 0843-UKTA-22/0027
- EU use only, ETA 22/0749

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.

Timber floors: The floor must have a minimum thickness of 150 mm and comprise solid wood or cross-laminated timber.

* No part of the penetration seal may be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1 must be provided within the cavity between the penetration seal and the stud.

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

3.3 The system Protecta FR Graphite may be used to provide a penetration seal with cables, cable trays, plastic pipes and metallic pipes with and without insulation. Services in floors should be supported at maximum 450 mm from the top face. Services in walls should be supported at maximum 250 mm from both faces of the wall. For details refer to the country document approvals:

- UK use only, 0843-UKTA-22/0027
- EU use only, ETA 22/0749

3.4 The provisions made in the UK Technical Assessment, 0843-UKTA-22/0027 and in the European Technical Assessment, 22/07449 are based on an assumed working life of the Protecta FR Graphite of 30 years, provided that the conditions laid down in the manufacturer's datasheet and instructions for the packaging / transport / storage / installation / use / repair are met. The assumed working life of Protecta FR Graphite for internal conditions without exposed to UV or moisture is 30 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3.5 Type Z₂: intended for use for internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.

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

Polyseam Ltd.
15 St Andrews Road
Huddersfield
West Yorkshire
HD1 6SB
United Kingdom

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 or United Kingdom Technical Assessment has been issued:

This Declaration of Performance has been prepared in accordance with the guidelines set out within EAD 350454-00-1104 penetration seals.

UK use only - UKTA - 0843-UKTA-22/0027 issued on 29/11/2022 prepared by UL
 - UKCA - 0843-CPR-1223 issued on 29/11/2022 prepared by UL

EU use only - ETA 22/0749 issued on 27/04/2023 prepared by UL
 - CoC 2531-CPR-CXO10133 issued on 03/03/2021 prepared by DBI Certification, notified body No. 2531

9. Declared performance:

Product type: FR Graphite	Intended use: Fire Stopping Penetration Seal	
Essential characteristics	Performance	Harmonised Technical Specification or Test Standard
Reaction to Fire	B -s1 – d0	EN 13501-1
Resistance to Fire	UK - 0843-UKTA-22/0027 - Annex A EU - ETA 22/0040 - Annex A	EN 13501-2
Air permeability	UK - 0843-UKTA-22/0027 - Annex B EU - ETA 22/0040 - Annex B	EN 1026
Water permeability	NPD	EAD 350454-00-1104, Annex C
Release of dangerous substances	As the manufacture we declare that there is no release of dangerous substances during the installation or use of this product. See safety data sheets.	
Mechanical Resistance and stability	NPD	EOTA TR 001:2003
Resistance to impact/movement	NPD	EOTA TR 001:2003
Adhesion	NPD	EOTA TR 001:2003
Airborne sound insulation	R _w (C;Ctr) = 53 (0;--1) dB *	EN 10140-2
Impact sound insulation	NPD	EN 10140-3
Thermal properties	NPD	EN 12664, EN12667, EN12939
Water vapour permeability	NPD	EN ISO 12572, EN 12086
Durability and serviceability	Z ₂	ISO 8339:2005

* Minimum 25 mm depth single sided seal.

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:

Name: Paul Ramage

Function: Technical Manager

Place of Issue: Huddersfield, England

Date of Issue: 11th May 2022

Signature: 