

# UL-EU CERTIFICATE

**Certificate No.** UL-EU-01073-CPR

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**Date of Issue** 2018-02-23

**Revised** 2020-05-20

**Certificate Holder** Polyseam Ltd  
St.Andrew Road  
Huddersfield  
West Yorks  
HD1 6SB

**Manufacturer** Polyseam Ltd  
St.Andrew Road  
Huddersfield  
West Yorks  
HD1 6SB

**Certified Product Type** Fire Stop – Fire Damper

**Product Trade Name** Graft FR Damper

**Trademark** N/A

**Rating/Classification** See Appendix

**Harmonised Technical Specifications** EN 1366-12 / EN 13501-3

**Supporting Documentation** Report No. 47876829699

**Additional information** Additional test evidence is held on file

**Expiry date** 2028-02-22

**Expiry date** 10 years



A handwritten signature in purple ink, consisting of a series of loops and a long horizontal stroke.

**Authorized Certification Decision Maker**  
Chris Miles

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of Graft FR Damper for preventing fire and smoke spreading from one fire compartment to another through the air ductwork system which may penetrate fire separating walls and floors.

The Graft FR Damper briefly comprises a circular or rectangular galvanised steel shell, containing a number of perforated steel fins and closed on both faces with a steel mesh grille. The interior of the shell and both sides of the fins are lined with an intumescent sheet material.



The detailed scope is given in page 3 of this Certificate. This shows the damper sizes, configurations and acceptable substrates to provide fire resistance periods of up to 180 minutes. All dampers are symmetrical and therefore may be exposed from either side (i↔o).

The products are certificated on the basis of:

- i) Classification report No. 4786457143
- ii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with EN 1366-12: 2014
- iv) Durability and Serviceability as defined in ETAG 026-2

The Intumescent inlay of the Graft FR Damper has demonstrated durability class of Z<sub>2</sub> (Evaluated against the requirements of ETAG 026-2) - intended for use at internal conditions with humidity classes other than Z<sub>1</sub>, excluding temperatures below 0°C.



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| Graft FR Damper: Fire Dampers in Steel Stud Drywalls and Masonry Walls Min. 100 mm thick |                             |                          |  |   |   |                         |     |     |     |
|--|-----------------------------|--------------------------|--|---|---|-------------------------|-----|-----|-----|
| Seal around damper   | Minimum Seal Thickness (mm) | Maximum damper size (mm) | Damper length through the element (mm) | Number of intumescent Lined Fins  | Insulation – Local Interrupted (LI)   | Fire Resistance (mins.) |     |     |     |
|  |                             |                          |  |   |   | E                       | EI  |     |     |
| 2 x 50 mm Graft FR Board 1-S or for small gaps options 1-3 below                         | 100                         | 100 Ø                    | 200                                    | 3   | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 200 mm long to both sides | 120                     | 120 |     |     |
|  |                             | 125 Ø                    |  | 3   |   |                         |     |     |     |
|  |                             | 160 Ø                    |  | 5   |   |                         |     |     |     |
|  |                             | 200 Ø                    |  | 7   |   |                         |     |     |     |
|  |                             | 250 Ø                    |  | 7   |   |                         |     |     |     |
|  |                             | 315 Ø                    |  | 9   |   |                         |     |     |     |
|  |                             | 400 Ø                    | 13                                     | Min. 30mm thick Stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 500 mm long to both sides | 90  | 60                      |     |     |     |
|  |                             | 500 Ø                    | 15                                     |   |   |                         |     |     |     |
|  |                             | 630 Ø                    | 19                                     |   |   |                         |     |     |     |
|  |                             | 800 Ø                    | 25                                     |   |   |                         |     |     |     |
|  |                             | 1250 Ø                   | 40                                     |   |   |                         |     |     |     |
|  |                             | 1000 x 600               | 200                                    |   |   |                         | 19* | 120 | 120 |
|  |                             | 1700 x 1200              | 300                                    |   |   |                         | 39  | 90  | 90  |

| Graft FR Damper: Fire Dampers in Concrete Floors Min. 150 mm thick |                             |                          |  |   |   |                         |     |    |    |
|--|-----------------------------|--------------------------|--|---|---|-------------------------|-----|----|----|
| Seal around damper   | Minimum Seal Thickness (mm) | Maximum damper size (mm) | Damper length through the element (mm) | Number of intumescent Lined Fins  | Insulation – Local Interrupted (LI)   | Fire Resistance (mins.) |     |    |    |
|  |                             |                          |  |   |   | E                       | EI  |    |    |
| 100 mm Graft FR Mortar or for small gaps options 1-3 below         | 100                         | 100 Ø                    | 200                                    | 3   | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 150 mm long to top side | 180                     | 120 |    |    |
|  |                             | 125 Ø                    |  | 3   |   |                         |     |    |    |
|  |                             | 160 Ø                    |  | 5   |   |                         |     |    |    |
|  |                             | 200 Ø                    |  | 7   |   |                         |     |    |    |
|  |                             | 250 Ø                    |  | 7   |   |                         |     |    |    |
|  |                             | 315 Ø                    |  | 9   |   |                         |     |    |    |
|  |                             | 400 Ø                    | 13                                     | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 500 mm long to the top side | 90  | 60                      |     |    |    |
|  |                             | 1000 x 600               | 200                                    |   |   |                         | 19* |    |    |
|  |                             | 500 Ø                    | 15                                     |   |   |                         |     |    |    |
|  |                             | 630 Ø                    | 19                                     |   |   |                         |     |    |    |
|  |                             | 800 Ø                    | 25                                     |   |   |                         |     |    |    |
|  |                             | 1000 Ø                   | 300                                    |   |   |                         | 32  | 90 | 90 |
|  |                             | 1000 x 1000              |  |   |   |                         |     |    |    |

\* additional intumescent applied to the inside of the casing parallel to the fins

Small seal options:

- Gaps less than 10 mm between damper and supporting element (wall or floor) may be sealed with 15 mm Ø Graft FR Putty Cord to both faces.
- Gaps of 10-30 mm between damper and wall may be sealed with 12.5 mm deep Graft FR Acrylic sealant to both faces, backed with 12.5 mm Stonewool (min 33 kg/m<sup>3</sup>).
- Gaps of 10-30 mm between damper and floor may be sealed with 15 mm deep Graft FR Acrylic sealant to both faces, backed with 25 mm Stonewool (min 33 kg/m<sup>3</sup>).



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| Graft FR Damper: Fire Dampers in Cross Laminated Timber <sup>#</sup> Walls Min. 100 mm thick |                      |                          |                    |  |                                  |   |                         |    |
|--|----------------------|--------------------------|--------------------|--|----------------------------------|---|-------------------------|----|
| Seal around damper (both faces)  | Backing (Both faces) | Maximum damper size (mm) | Aperture size (mm) | Damper length through the element (mm) | Number of intumescent Lined Fins | Insulation – Local Interrupted (LI)   | Fire Resistance (mins.) |    |
|  |                      |                          |                    |  |                                  |   | E                       | EI |
| 25mm FR Acrylic Sealant  | 25mm Stonewool       | 100 Ø                    | 120 Ø              | 200                                    | 3                                | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 200 mm long to both sides | 90                      | 90 |
|  |                      | 125 Ø                    | 145 Ø              |  | 3                                |   |                         |    |
|  |                      | 160 Ø                    | 180 Ø              |  | 5                                |   |                         |    |
|  |                      | 200 Ø                    | 220 Ø              |  | 7                                |   |                         |    |
|  |                      | 250 Ø                    | 270 Ø              |  | 7                                |   |                         |    |
|  |                      | 315 Ø                    | 335 Ø              |  | 9                                |   |                         |    |
|  |                      | 400 Ø                    | 420 Ø              |  | 13                               |   |                         |    |
|  |                      | 500 Ø                    | 520 Ø              | 300                                    | 15                               | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 500 mm long to both sides | 90                      | 60 |
|  |                      | 630 Ø                    | 650 Ø              |  | 19                               |   |                         |    |
|  |                      | 800 Ø                    | 820 Ø              |  | 25                               |   |                         |    |
|  |                      | 1250 Ø                   | 1270 Ø             |  | 40                               |   |                         |    |

# in compliance with EN 16351 and classified for at least the required period to EN 13501-2

| Graft FR Damper: Fire Dampers in Cross Laminated Timber <sup>#</sup> Floors Min. 150 mm thick |                      |                          |                    |  |                                  |   |                         |    |
|---|----------------------|--------------------------|--------------------|--|----------------------------------|---|-------------------------|----|
| Seal around damper (both faces)   | Backing (Both faces) | Maximum damper size (mm) | Aperture size (mm) | Damper length through the element (mm) | Number of intumescent Lined Fins | Insulation – Local Interrupted (LI)   | Fire Resistance (mins.) |    |
|   |                      |                          |                    |  |                                  |   | E                       | EI |
| 25mm FR Acrylic Sealant   | 25mm Stonewool       | 100 Ø                    | 120 Ø              | 200                                    | 3                                | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 150 mm long to top side     | 90                      | 90 |
|   |                      | 125 Ø                    | 145 Ø              |  | 3                                |   |                         |    |
|   |                      | 160 Ø                    | 180 Ø              |  | 5                                |   |                         |    |
|   |                      | 200 Ø                    | 220 Ø              |  | 7                                |   |                         |    |
|   |                      | 250 Ø                    | 270 Ø              |  | 7                                |   |                         |    |
|   |                      | 315 Ø                    | 335 Ø              |  | 9                                |   |                         |    |
|   |                      | 400 Ø                    | 420 Ø              |  | 13                               |   |                         |    |
|   |                      | 500 Ø                    | 520 Ø              | 300                                    | 15                               | Min. 30mm thick stonewool Min. 80 kg/m <sup>3</sup> ,<br>Min. 500 mm long to the top side | 90                      | 90 |
|   |                      | 630 Ø                    | 650 Ø              |  | 19                               |   |                         |    |
|   |                      | 800 Ø                    | 820 Ø              |  | 25                               |   |                         |    |
|   |                      | 1000 Ø                   | 1020 Ø             |  | 32                               |   |                         |    |

# in compliance with EN 16351 and classified for at least the required period to EN 13501-2



# Appendix UL-EU Certificate

|                           |                   |
|---------------------------|-------------------|
| <b>Certification Mark</b> | <b>UL-EU mark</b> |
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

## PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at [www.ul.com](http://www.ul.com).

