

## DECLARATION OF PERFORMANCE

### According to Annex III of the Regulation (EU) 305/2011 Construction Products Regulation Pyroplex 200 and 400 Series Collars

**1.0 Unique Identification Code of the Product Type(s):**

Pyroplex 200 Series Collars & Pyroplex 400 Series Collars

**2.0 Type, batch or serial number or any other element allowing identification of the products as required under Article 11(4):**

Refer to product label

**3.0 Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the Manufacturer:**

**3.1 Intended Use – Pyroplex 200 and 400 series collars**

The intended use of system 200 Series and 400 Series Collar System is to reinstate the fire resistance performance of rigid and flexible walls and floor constructions where penetrated by various combustible pipe services.

**3.1.1** The specific elements of construction that the system Pyroplex 200 Series Collar System and 400 Series Collar System may be used to provide a penetration seal in, are as follows:

**Rigid walls:** The wall must have a minimum thickness of 150mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>.

**Rigid walls:** The wall must have a minimum thickness of 130mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>. (Only for 400 Series Collars up to a maximum diameter of 160mm).

**Rigid floors:** The floor must have a minimum thickness of 150mm and comprise of aerated concrete or concrete with a minimum density of 650 kg/m<sup>3</sup>.

**Flexible Walls:** The wall must have a minimum thickness of 130mm and comprise either of timber or steel studs lined on both faces with a minimum 2 layers of 15mm Type F Gypsum boards according to EN520. In timber stud walls, no part of the penetration shall be closer than 100mm to a stud, and minimum of 100mm of insulation compliant with Class A1 or A2 according to EN13501-1, shall be provided within the cavity between the penetration and the stud. (Only for 400 Series Collars up to a maximum diameter of 160mm)

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

**3.1.2** 200 Series Collar System and 400 Series Collar System may be used to provide a penetration seal with specific combustible pipes, single only.

**3.1.3** Apertures in the separating element shall be maximum 5mm diameter oversize with respect to the pipe diameter. The remaining annular space/gap shall be infilled with Pyroplex Intumescent Acrylic Sealant used for the purposes of smoke sealing. Apertures provided within the supporting construction shall be separated by min. 200mm.

**3.1.4** Pipes shall be supported at a maximum 300mm away from both sides of the wall constructions and 320mm from the upper face of floor constructions.

**3.1.5** European technical approval ETA 20/1208.

**3.1.6** The product must be installed in accordance with the Pyroplex Technical Data Sheet.

**4.0 Name, registered trade name or registered trade mark and contact address of the Manufacturer as required pursuant Article 11(5);**

Name: Pyroplex Limited,  
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Worcestershire,  
WR9 9BG

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Contact point: andy.walsh@pyroplex.com [Declaration of Performance Only]

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**5.0** Where applicable, name and address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

NOT APPLICABLE

**6.0** System or Systems of assessment and verification of constancy performance of the construction product as set out in Construction Products Regulation

Annex V: AVCP - SYSTEM 1

**7.0** In the case of the declaration of performance concerning product covered by a Harmonised Standard

NOT APPLICABLE

**8.0** In the case of the declaration of performance concerning product covered by a Harmonised Standard and/or ETA:

Warrington Certification Ltd issued ETA 20/1208 on the basis of Guideline for European Technical Approval of Fire Stopping and Fire Sealing Products: ETAG 026 Part 1: "General" and Part 2: "Penetration Seals" performed initial and continuous surveillance of the place of manufacture and the factory production control implemented, sampled product and witnessed initial type testing under system 1 and issued the Certificate of Constancy of Performance (2812-CPR-JA5002) and Certificate of Conformity of the Factory Production Control.

**9.0** Declared performance

| ETAG Clause  | ETA Clause | Characteristic                         | Assessment of Characteristic (Declared Performance) |
|--|------------|--|---|
| <b>Mechanical resistance and stability</b>         |            |  |   |
|  |            | None                                   | No relevant   |
| <b>Safety in case of fire</b>                      |            |  |   |
| 2.4.1  | 2.1        | Reaction to fire                       | Class F   |
| 2.4.2  | 2.2        | Resistance to fire                     | Refer to classification reports                     |
| <b>Hygiene, health and environment</b>             |            |  |   |
| 2.4.3  | 2.3        | Air permeability (material property)   | No performance determined                           |
| 2.4.4  | 2.4        | Water permeability (material property) | No performance determined                           |
| 2.4.5  | 2.5        | Release of dangerous substances        | Declaration – compliant                             |
| <b>Safety in use</b>                               |            |  |   |
| 2.4.6  | 2.6        | Mechanical resistance and stability    | No performance determined                           |
| 2.4.7  | 2.7        | Resistance to impact/movement          | No performance determined                           |
| 2.4.8  | 2.8        | Adhesion                               | No performance determined                           |
| <b>Protection against noise</b>                    |            |  |   |
| 2.4.9  | 2.9        | Airborne sound insulation              | No performance determined                           |
| 2.4.10   | 2.10       | Impact sound insulation                | No performance determined                           |
| <b>Energy economy and heat retention</b>           |            |  |   |
| 2.4.11   | 2.11       | Thermal properties                     | No performance determined                           |
| 2.4.12   | 2.12       | Water vapour permeability              | No performance determined                           |
| <b>General aspects relating to fitness for use</b> |            |  |   |
| 2.4.13   | 2.13       | Durability and service ability         | Z <sub>2</sub>                                      |

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**10.0** The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.0. This Declaration of Performance is issued under the sole responsibility of Pyroplex Limited.

Signed for and behalf of Pyroplex Limited:



**Competent Person Name:** Andy Walsh  
**Responsibility:** Technical Manager  
**Place:** Pyroplex Limited, Droitwich, Worcestershire WR9 9BG  
**Date of Issue:** 11th March 2021      **Issue:** 9

#### A.1 References to standards cited in DoP:

EN 13501-1 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests

EN 13501-2 Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests

#### A.2 Other reference documents:

EOTA TR 024 Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products

Guideline for European Technical Approval of Fire Stopping and Fire Sealing Products: ETAG 026 Part 1: "General" and Part 2: "Penetration Seals"

#### Annex B – Scope of Approval and Classifications derived from Fire Resistance – Classification

Fire performance and field of application are referenced in;

WF 174256/A Issue 4  
WF 174256 B Issue 4  
WF 187208  
WF 348700 Issue 3

#### Amendments/Revisions

DoP amended to include tables of performance  
PPC75-2 amended  
PPC90-4 amended  
Issue 3 – Tables 2, 8 amended to reflect correct installation detail  
Issue 3 – Table 8 footnote amended  
Issue 3 – Table 11  
Issue 4 – BSI logo update  
Issue 5 – Amend table headers  
Issue 6 – Amend table header  
Issue 7 – Add clarity to 3.1.1 to show 400 Series detail  
Issue 8 – Updated competent person details  
Issue 9 – Updated ETA and CoCOP number

## DECLARATION OF PERFORMANCE

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### Appendices

#### Pyroplex 200 Series Collars

| Table 1 - Services PVC-U pipe according to EN 1329-1 <sup>1</sup> – Rigid Wall Construction [150mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                              |
|---|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification               |
| 55  | 3.2                 | PPC55-2     | EI 120 – U/C<br>EI 120 – C/C |
| 75  | 3.2                 | PPC75-2     |                              |
| 82  | 3.2                 | PPC82-2     |                              |
| 110   | 3.2                 | PPC110-2    |                              |
| 160   | 3.2                 | PPC160-2    |                              |

#### Pyroplex 200 Series Collars

| Table 2 - Services PVC-U pipe according to EN 1329-1 <sup>1</sup> – Rigid Floor Construction [150mm min. thickness]<br>One collar to be installed on the underside of the supporting construction |                     |             |                              |
|---|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification               |
| 55  | 3.2                 | PPC55-2     | EI 120 – U/C<br>EI 120 – C/C |
| 75  | 3.2                 | PPC75-2     |                              |
| 82  | 3.2                 | PPC82-2     |                              |
| 110   | 3.2                 | PPC110-2    |                              |
| 160   | 3.2                 | PPC160-2    |                              |

#### Pyroplex 400 series collars

| Table 3 - Services PVC-U pipe according to EN 1329-1 <sup>1</sup> – Rigid Wall Construction [150mm min. thickness*]<br>Collar to be installed on both sides of the supporting construction |                     |             |                              |
|--|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)   | Pipe thickness (mm) | Collar Type | Classification               |
| 25   | 1.8                 | PPC25-4     | EI 180 – U/C<br>EI 180 – C/C |
| 32   | 1.8                 | PPC32-4     |                              |
| 40   | 1.8                 | PPC40-4     |                              |
| 48   | 3.2                 | PPC48-4     |                              |
| 55   | 3.2                 | PPC55-4     |                              |
| 68   | 3.2                 | PPC68-4     |                              |
| 82   | 3.2                 | PPC82-4     |                              |
| 90   | 3.2                 | PPC90-4     |                              |
| 110  | 3.2                 | PPC110-4    |                              |
| 125  | 3.2                 | PPC125-4    |                              |
| 135  | 3.2                 | PPC135-4    |                              |
| 160  | 3.2                 | PPC160-4    |                              |
| 200  | 5.4                 | PPC 200-4   |                              |
| 225  | 7.2                 | PPC225-4    |                              |
| 250  | 7.2                 | PPC250-4    |                              |
| 315  | 8.2                 | PPC315-4    | EI 180 – C/C                 |

\* Collars from PPC25-PPC160 can be installed in rigid walls with a minimum thickness of 130mm refer to Tables 6, 7 and Table 8 for fire classifications.

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#### Pyroplex 400 series collars

| Table 4 - Services PVC-U pipe according to EN 1452-2 <sup>1</sup> – Rigid Wall Construction [150mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                |
|---|---------------------|-------------|----------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification |
| 350   | 9.8                 | PPC350-4    | EI 120 – C/C   |
| 400   | 9.8                 | PPC400-4    | EI 120 – C/C   |

#### Pyroplex 400 series collars

| Table 5 - Services PE-HD pipe according to EN 12201-2 <sup>2</sup> – Rigid Wall Construction [150mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                |
|--|---------------------|-------------|----------------|
| Pipe Diameter (mm)   | Pipe thickness (mm) | Collar Type | Classification |
| 350  | 23.7                | PPC350-4    | EI 60 – C/C    |
| 400  | 23.7                | PPC400-4    |                |

#### Pyroplex 400 series collars

| Table 6 - Services PVC-U pipe according to EN 1452-2 – Flexible Wall [130mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                              |
|--|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)   | Pipe thickness (mm) | Collar Type | Classification               |
| 25   | 1.90 – 3.0          | PPC25-4     | EI 120 – U/C<br>EI 120 – C/C |
| 32   | 1.90 – 3.0          | PPC32-4     |                              |
| 40   | 1.90 – 3.0          | PPC40-4     |                              |
| 48   | 2.20 – 3.4          | PPC48-4     |                              |
| 55   | 3.30 – 5.2          | PPC55-4     |                              |
| 68   | 3.30 – 5.2          | PPC68-4     |                              |
| 90   | 4.80 – 7.40         | PPC90-4     |                              |
| 82   | 3.30 – 5.20         | PPC82-4     |                              |
| 110  | 4.80 – 7.40         | PPC110-4    |                              |
| 125  | 4.80 – 7.40         | PPC125-4    |                              |
| 160  | 6.20 – 9.50         | PPC160-4    |                              |

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| Table 7 - Services HDPE pipe according to EN 1519 – Flexible Wall [130mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                              |
|---|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification               |
| 25  | 2.40 – 3.70         | PPC25-4     | EI 120 – U/C<br>EI 120 – C/C |
| 32  | 2.40 – 3.70         | PPC32-4     |                              |
| 40  | 2.40 – 3.70         | PPC40-4     |                              |
| 48  | 2.50 – 4.00         | PPC48-4     |                              |
| 55  | 3.30 – 5.20         | PPC55-4     |                              |
| 68  | 3.00 – 5.40         | PPC68-4     |                              |
| 82  | 3.00 – 5.40         | PPC82-4     |                              |
| 90  | 3.40 – 6.60         | PPC90-4     |                              |
| 110   | 3.40 – 6.60         | PPC110-4    |                              |
| 160   | 4.90 – 9.10         | PPC160-4    |                              |

#### Pyroplex 400 series collars

| Table 8 - Services PP pipe according to EN 1451 – Flexible Wall [130mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                                    |
|---|---------------------|-------------|------------------------------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification                     |
| 25  | 1.80 – 3.70         | PPC25-4     | E120 – U/C, C/C<br>EI90 – U/C, C/C |
| 32  | 1.80 – 3.70         | PPC32-4     |                                    |
| 40  | 1.80 – 3.70         | PPC40-4     |                                    |
| 48  | 1.90 – 4.40         | PPC48-4     |                                    |
| 55  | 2.30 – 7.50         | PPC55-4     |                                    |
| 68  | 2.30 – 7.50         | PPC68-4     |                                    |
| 82  | 2.30 – 7.50         | PPC82-4     |                                    |
| 90  | 2.70 – 10.0         | PPC90-4     |                                    |
| 110   | 2.70 – 10.0         | PPC110-4    | EI20 – U/C, C/C                    |
| 160   | 4.0 – 9.10          | PPC160-4    |                                    |

#### Pyroplex 400 series collars

As defined in WF348700 products listed in tables 6, 7 and 8, PPC25-4 to PPC160-4 can be used on PVC, HDPE and PP penetrations, providing the wall has a minimum thickness of 130mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>.

#### Pyroplex 400 series collars

| Table 9 - Services PVC-U pipe according to EN 1452-2 <sup>1</sup> – Rigid Floor Construction [150mm min. thickness]<br>Collar to be installed on both sides of the supporting construction |                     |             |                |
|--|---------------------|-------------|----------------|
| Pipe Diameter (mm)   | Pipe thickness (mm) | Collar Type | Classification |
| 350  | 9.8                 | PPC350-4    | EI 180 – C/C   |
| 400  | 9.8                 | PPC400-4    | EI 180 – C/C   |

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#### Pyroplex 400 series collars

| Table 10 - Services PE-HD pipe according to EN 12201-2 <sup>2</sup> – Rigid Floor Construction [150mm min. thickness]<br>One collar to be installed on the underside of the supporting construction |                     |             |                |
|---|---------------------|-------------|----------------|
| Pipe Diameter (mm)  | Pipe thickness (mm) | Collar Type | Classification |
| 350   | 23.7                | PPC350-4    | EI 60 – C/C    |
| 400   | 23.7                | PPC400-4    |                |

#### Pyroplex 400 series collars

| Table 11 - Services PVC-U pipe according to EN 1329-1 <sup>1</sup> – Rigid Floor Construction [150mm min. thickness]<br>One collar to be installed on the underside of the supporting construction |                     |             |                              |
|--|---------------------|-------------|------------------------------|
| Pipe Diameter (mm)   | Pipe thickness (mm) | Collar Type | Classification               |
| 25   | 1.8                 | PPC25-4     | EI 180 – U/C<br>EI 180 – C/C |
| 32   | 1.8                 | PPC32-4     |                              |
| 40   | 1.8                 | PPC40-4     |                              |
| 48   | 3.2                 | PPC48-4     |                              |
| 55   | 3.2                 | PPC55-4     |                              |
| 68   | 3.2                 | PPC68-4     |                              |
| 82   | 3.2                 | PPC82-4     |                              |
| 90   | 3.2                 | PPC90-4     |                              |
| 110  | 3.2                 | PPC110-4    |                              |
| 125  | 3.2                 | PPC125-4    |                              |
| 135  | 3.2                 | PPC135-4    |                              |
| 160  | 3.2                 | PPC160-4    |                              |
| 200  | 5.4                 | PPC200-4    |                              |
| 225  | 7.2                 | PPC225-4    |                              |
| 250  | 7.2                 | PPC250-4    |                              |
| 315  | 8.2                 | PPC315-4    | EI 120 – C/C                 |