

TECHNICAL DATASHEET

Service penetrations - plastic SWD systems Fire resistance period: up to EI 240 (for further detail see data tables) Insulation/integrity: Insulation and integrity BS EN 1366-3 CE Mark - 2812-CPR-JA5003

INSTALLATION

wall applicatio

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Application:

Test standard:

Approval type:

CE Marked Pipe Wraps – 200 & 400 Series



Pyroplex CE Marked Pipe Wraps have been specifically designed to reinstate the fire performance of compartment walls or floors which has been penetrated with plastic flammable pipes used in soil, waste and drainage applications. The active element contained is specifically formulated to close and seal the aperture during the decomposition stage of the flammable service, creating a highly effective fire resistant barrier to minimise the propagation and permeation of hot gases into the adjacent compartment.

Pyroplex CE Marked Pipe Wraps have been tested in accordance with EN 1366-3 Penetration Seals, with a fire classification in accordance with EN 13501-2. Pyroplex CE Marked Pipe Wraps are assessed against EEC directive 305/2011 Article 29, ETA 20/1209. National UK certification in accordance with Certifire TS03 under certificated number CF 635.

Certifire Certificate No. CF 635* EC Certificate of Conformity 2812-CPR-JA5003* European Technical Assessment ETA 20/1209* (*available to download from the Pyroplex website, www.pyroplex.com)

FIELD OF APPLICATION

Pyroplex® CE Marked Pipe Wraps have been specifically designed to prevent the passage of fire and hot gases through:

- Concrete and masonry walls
- Concrete floor constructions
- Soil, waste and drainage 'above ground' applications

PRODUCT FEATURES

- Pyroplex[®] CE Marked Pipe Wraps have achieved a fire rating of either 2 hour or 4 hour
- Easy to place around pipe and slide into position.
- Intumescent material is totally unaffected by water, is robust, 'non-flaking' and difficult to tear
- Colour coded: Red sleeve 200 series and Silver sleeve 400 series
- Pyroplex 200 series wraps installed centrally within the supporting construction (wall) to achieve EI 120
- No migratory plasticisers which could result in degradation and softening of pipe materials
- Pre-measured wraps for speed of installation, minimising waste and disposal

PRODUCT RANGE

Note: Diameter hole in wall or floor for guidance only.

200 SERIES PIPE WRAPS

Pyroplex 200 series wraps are now available in an extended range of sizes, suitable for a wide range of pipe diameters, pipe materials and can be used for a range of pipe thicknesses. To fit, simply wrap the pipe wrap around the service, secure using adhesive tab and slide the product into the cavity to the required depth. The annular gap between the pipe and the supporting construction can be reinstated as required.

	200 SERIES PIPE WRAPS					
Part no.	Pipe material	Pipe wall thickness (mm)	Hole Ø (mm)	Orientation	Fire classification WF174256/C	
PPW55-2	PVC-u	3.20	70	Wall	El 120 - u/c	
PPW55-2	PVC-u	3.20	70	Floor	El 120 - u/c	
PPW82-2	PVC-u	3.20	98	Wall	El 120 - u/c	
PPW82-2	PVC-u	3.20	98	Floor	El 120 - u/c	
PPW110-2	PVC-u	3.20	130	Wall	El 120 - u/c	
PPW110-2	PVC-u	3.20	130	Floor	El 120 - u/c	
PPW160-2	PVC-u	3.20	190	Wall	El 120 - u/c	
PPW160-2	PVC-u	3.20	190	Floor	El 120 - u/c	

Table 1 - Floor penetrations tested to EN 1366-3 - Refer to WF Report No: 384250 PVC -U pipes according to EN 1329-1, EN 1453-1 or EN 1452-1 are valid for pipes made from PVC-U according to EN 1329-1, EN 1453-1 and EN 1452-1 including pipes made from PVC-C according to EN 1566-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
48.30mm - 50mm (nominal OD)	3.70 - 5.10	U/C - Floor	EI 120
160mm	6.20 - 9.50	U/C - Floor	EI 120

Table 2 - Floor penetrations tested to EN 1366-3 - Refer to WF Report No: 384250 PE-HD pipes according to EN 1519-1 or EN 1266-1 are valid for pipes made from PE according to EN 12201, EN 1519-1 and EN 12666-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
50mm (nominal OD)	3.00 - 4.60	U/C - Floor	EI 120
160mm	4.90 - 9.50	U/C - Floor	EI 120

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Table 3 - Floor penetrations tested to EN 1366-3 - Refer to WF Report No: 384250 PP pipes

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
50mm	2.00 - 4.60	U/C - Floor	EI 120
160mm	4.90 - 9.10	U/C - Floor	EI 120

Table 4 - Floor penetrations tested to EN 1366-3 - Refer to WF Report No: 384250 PP pipes according to DIN4102-B2

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
50mm	2.00	U/C - Floor	EI 120
58mm	4.00	U/C - Floor	EI 120
160mm	5.30	U/C - Floor	EI 90
160mm	4.30	U/C - Floor	EI 120

Table 5 – Floor penetrations tested to EN 1366-3 – Refer to WF Report No: 394147 PVC-U pipes according to EN 1329-1, EN 1453-1 or EN 1452-1 are valid for pipes made from PVC-U according to EN 1329-1, EN 1453-1 and EN 1452-1, including pipes made from PVC-C according to EN 1566-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
90mm	3.20 - 5.40	U/C - Floor	EI 120

Table 6 – Floor penetrations tested to EN 1366-3 – Refer to WF Report No: 394147 PE-HD according to EN 1519-1 or EN 12666-1 are valid for pipes made from PE according to EN 12201, EN 1519-1 and EN 12666-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
90mm	2.80 - 8.20	U/C - Floor	EI 120

Table 7 – Floor penetrations tested to EN 1366-3 – Refer to WF Report No: 394147 PP pipes according to B5174-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
90mm	2.80 - 8.20	U/C - Floor	EI 120

Table 8 – Wall penetrations tested to EN 1366-3 – Refer to WF Report No: 384251 PVC-U pipes according to EN 1329-1, EN 1453-1 or EN 1452-1 are valid for pipes made from PVC-U according to EN 1329-1, EN 1453-1 and EN 1452-1, including pipes made from PVC-C according to EN 1566-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
48.3mm-50mm (nominal OD)	3.70 - 5.10	U/C - Wall	EI 120
160mm	6.20 - 9.50	U/C - Wall	EI 120

Table 9 – Wall penetrations tested to EN 1366-3 – Refer to WF Report No: 384251 PE-HD according to EN 1519-1 or EN 12666-1 are valid for pipes made from PE according to EN 12201, EN 1519-1 and EN12666-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
50mm	3.00 - 4.60	U/C - Wall	EI 120
160mm	4.90 - 9.5	U/C - Wall	EI 120

Table 10 - Wall penetrations tested to EN 1366-3 - Refer to WF Report No: 384251 PP pipes

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
50mm	2.00 - 4.60	U/C - Wall	EI 120
160mm	4.90 - 9.10	U/C - Wall	EI 120

Table 11 – Wall penetrations tested to EN 1366-3 – Refer to WF Report No: 384251 PP pipes according to DIN4102-B2

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification		
50mm	2.00	U/C - Wall	EI 120		
58mm	4.00	U/C - Wall	EI 120		
160mm	4.30	U/C - Wall	EI 120		
160mm	5.30	U/C - Wall	E 120		
			EI 60		

 Table 12 - Wall penetrations tested to EN 1366-3 - Refer to WF Report No: 394147

 PVC-U pipes according to EN 1329-1, EN 1453-1 or EN 1452-1 are valid for pipes made from

 PVC-U according to EN 1329-1, EN 1453-1 and EN 1452-1,

 including pipes made from PVC-C according to EN 1566-1

 Pipe diameter
 Pipe wall thickness (mm)

 90mm
 4.00 - 5.40
 U/C - Wall

 EI 120

Table 13 – Wall penetrations tested to EN 1366-3 – Refer to WF Report No: 384251 PE-HD according to EN 1519-1 or EN 12666-1 are valid for pipes made from PE according to EN 12201, EN 1519-1 and EN 12666-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
90mm	2.80 - 8.20	U/C - Wall	EI 120

Table 14 - Wall penetrations tested to EN 1366-3 - Refer to WF Report No: 384251 PP pipes according to B5174-1

Pipe diameter	Pipe wall thickness (mm)	Orientation – end condition	Classification
90mm	2.80 - 8.20	U/C - Wall	EI 120

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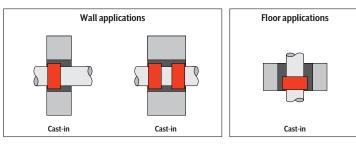


400 SERIES PIPE WRAPS

400 SERIES PIPE WRAPS					
Part no.	Pipe material	Pipe wall thickness (mm)	Hole Ø (mm)	Orientation	Fire classification WF174256/D
PPW55-4	PVC-u	3.20	70	Wall	El 240 - u/c
PPW55-4	PVC-u	3.20	70	Floor	El 120 - u/c
PPW82-4	PVC-u	3.20	98	Wall	El 240 - u/c
PPW82-4	PVC-u	3.20	98	Floor	El 240 - u/c
PPW110-4	PVC-u	3.20	130	Wall	El 120 - u/c
PPW110-4	PVC-u	3.20	130	Floor	El 120 - u/c
PPW125-4	PVC-u	3.20	155	Wall	El 120 - u/c
PPW125-4	PVC-u	3.20	155	Floor	El 180 - u/c
PPW160-4	PVC-u	3.20	190	Wall	El 120 - u/c
PPW160-4	PVC-u	3.20	190	Floor	El 180 - u/c

INSTALLATION INSTRUCTIONS

- 1. The wall or floor must be of solid construction. The recess hole must be the correct size. See table in previous section.
- 2. Fix wrap around the pipe using adhesive tab and slide along pipe into wall/floor cavity to a depth of 5mm min./10mm max.
- 3. After insertion, the cavity around the pipe can be made good with filler. The surface can then be decorated.



PACKAGING INFORMATION

Product Code	Recommended Pipe Diameter (mm) (min - maximum)	Quantity per box
PPW50-2	48 - 52	50
PPW55-2	53 - 58	50
PPW68-2	63 - 70	50
PPW75-2	73 - 78	50
PPW82-2	80 - 84	50
PPW90-2	86 - 92	50
PPW110-2	108 - 113	50
PPW125-2	123 - 127	20
PPW160-2	158 - 162	20

QUALITY APPROVAL

Pyroplex Limited have a Quality Management System that meets the requirements of ISO 9001 and an Environmental Management System that meets the requirements of ISO 14001, both are independently verified by BSI Quality Assurance under Certificate Numbers FM 10371 and EMS 637894. Copies of these certificates are available on our website to download at **www.pyroplex.com**

OTHER INFORMATION

The information contained herein is based upon the present state of our knowledge. Recipients of Pyroplex® products must take responsibility for observing existing laws and regulations.

Due to our policy of continuous improvement, Pyroplex Limited reserves the right to amend specifications without prior notice.

TECHNICAL DATA:

PRODUCT TESTING

Pyroplex Limited have carried out numerous independent fire resistance tests to confirm the suitability of the product and to demonstrate product compliance by utilising BS EN 1366-3. EN classification reports to BS EN 13501-2 is available for download on the Pyroplex® website.

 $\label{eq:pyroplex} Pyroplex @ 200 series wraps refer to EN Classification reports WF174256/C Issue 2 and 387452 Issue 1. Pyroplex @ 400 series wraps refer to EN Classification reports WF174256/D Issue 1.$

STRUCTURAL CONSTRUCTIONS

Pyroplex[®] CE Marked Pipe Wraps can be used in walls and floors, with a solid construction of a density not less than 650kg/m³. Pyroplex[®] CE Marked Pipe Wraps must not be used in stud wall partitioning systems.

The wall or floor shall not be less than 100mm in overall thickness. It is recommended that the overall distance between the wrap and the hole does not exceed 5mm. Failure to observe this may result in underperformance in a fire situation.

SPECIFICATION OF WRAPS

The Pipe Wrap consists of a polyethylene sleeve which contains a single or multiple layers of intumescent material. For pipe diameters of 125mm-160mm* the intumescent is contained within a glass-fibre woven sock. The sleeve is provided with a self-adhesive tag to aid installation. *4 hour wraps only.

PRODUCT GUARANTEE AND TRACEABILITY

Providing the product is installed in accordance with the requirements of the guidance document the product is guaranteed for a period of 10 years.

TECHNICAL SUPPORT AND GUIDANCE

Should you require any further information regarding this product please contact Pyroplex Limited or visit our website, **www.pyroplex.com**

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MATERIAL SAFETY DATA:

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Thermoplastic element composition containing intercalated graphite in a synthetic compound with the addition of fillers and process oils, presented in a polyethylene sleeve to form the product.

POSSIBLE HAZARDS

Principle hazards: Not subject to decree of hazardous substances. Critical hazard to man and environment: Not applicable.

FIRST AID MEASURES

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Rinse mouth immediately, do not induce vomiting, and seek immediate medical attention.

If inhaled: Not applicable in solid state.

FIRE FIGHTING MEASURES

Pyroplex[®] intumescent material is self-extinguishing.

Suitable extinguishing media: Water, foam, powders and dry extinguishing media.

Special protective equipment: Suitable forms of PPE [personal protective equipment]. Avoid inhalation of smoke or fumes.

In the event of fire, contact the appropriate emergency services for assistance.

ACCIDENTAL RELEASE MEASURES

Personal precaution: In the event of fire ensure sufficient ventilation. Environmental precaution: Ensure materials are disposed of in accordance with local authority regulations and/or government legislation.

Methods for cleaning up: No special measures necessary.

HANDLING AND STORAGE

Handling: No special requirements.

Storage: Store dry and in a cool place [not above +35°C]. Keep out of reach of children. Take care for sufficient ventilation.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory protection: None normally required, when supplied in solid form.

Hand protection: None normally required.

Eye protection: None normally required.

Skin protection: None normally required.

PHYSICAL AND CHEMICAL PROPERTIES

Intumescent element	Solid
Colour	Black
Odour	Acidic
Explosion limits	None

STABILITY AND REACTIVITY

Conditions to be avoided: Thermal decomposition above +300°C.

Hazardous decomposition products: Thermal decomposition, fumes contain Hydrogen Chloride. However, the activated graphite is effective at removing aromatic particles from smoke emissions.

TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable in solid state.

ECOLOGICAL INFORMATION

General advice: Observe the legal provisions regarding the prevention of ground water and surface water as well as air.

DISPOSAL CONSIDERATIONS

Product packaging: Refer to local authority regulations.

Recommendations: Disposal of by special means in accordance with local regulations e.g. suitable deposition.

Contaminated packaging recommendation: Not applicable.

TRANSPORT INFORMATION

Transport hazards: No regulations apply for the transport of this material. Not classified as hazardous for road, rail, sea or air transport.

REGULATORY INFORMATION

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Labelling according to EEC directives			
National legislation/regulation	Not applicable		
VbF classifications	None		
Water hazard class	Not applicable		

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