

Product name	PipeBloc PCP® Pipe Collar
Product Code	PC
Revision Date	30/01/2016
Revision number	02



INTRODUCTION

PipeBloc® PCP Collars are designed and tested to seal service penetration apertures containing plastic and metallic pipes, pipes with insulation or cables, using thermoplastic composites based on graphite Intumescent technology. Developed to provide a high volume expansion and pressure seal during a fire. The PipeBloc® PCP offers EI120 and EI240 tested to EN1366-3, the maximum diameter being 250mm, the ultra thin design of PipeBloc PCP of the collar shell gives a depth of 30mm and 40mm ensuring that they can be installed in to the tightest of locations. PipeBloc® PCP can be installed on flexible wall, rigid wall, rigid floor constructions and in Batt seals. They are compatible with polypropylene (PP), polyethylene (PE) and polyvinyl chloride (PVC) pipes. PipeBloc PCP is tested with end capping configurations that cover U/U, C/U, U/C & C/C pipes.

The advantages of the PipeBloc PCP® Pipe Collar are as follows:

- Suitable for use with flexible walls with 100mm minimum thickness, rigid wall with 100mm minimum thickness and rigid floors with 150mm minimum thickness .
- Allows thermal and mechanical movement of pipe.
- Halogen free, contains no asbestos, ceramic and is environmentally friendly.
- Ease of fixing to suit location - 4 fixing types available
- Not effected by fungus, vermin, rodents or moisture
- Tested for internal and external use
- Long life



SIZE AND FIRE RATING

Pipe Types Covered

PVC-U according to EN 1329-1, EN 1453-1 or EN ISO 1452-2, EN 1329-1, EN 1453-1, EN ISO 15493, EN ISO 1452-2, EN 1566-1, EN ISO 15493 and EN ISO 15877

PE according to EN 1519 or EN 12666-1, EN 12201-2, EN 1519-1, EN ISO 15494

ABS pipes according to 1455-1, EN ISO 15493

SAN+PVC pipes according to EN 1565-1

PP according to EN 1451-1, EN ISO 15874, EN ISO 15494 multilayer pipes made of PP materials only (e.g. PP-C/PP-TV/PP-C; PP-CO/PP-MV/PP-C)

Pipe Sizes

32mm to 160mm Flexible Walls

32mm to 160mm Rigid Floors

32mm to 250mm Rigid Walls





SPECIFICATION

Fire Resistance Rigid Floors	EI 240 - EN 1366-3:2009 Floor (underside)
Fire Resistance Flexible & Rigid Walls	EI 120 - EN 1366-3:2009 Wall (one each side)
Expansion Rate	20:1
Expansion Pressure	11.28 Bar / 1.12 N/mm ²
Working Temperature	-20°C to +120°C
Colour / Appearance	Green Steel - 3 Fixing Tabs
Fixing Detail	3 No 60mm x 6mm Expanding Anchors Rigid Floors 3 No Size 70 Wood Screws Rigid Walls 3 No 65 mm Spider Fixing Flexible Walls 3 No 35mm Tap in Fixings

Use Type

Tested to Type X: intended for use indoor and outdoor in conditions exposed to weathering with exposure to UV, humidity equal to or higher than 85 % RH and temperatures below 0°C.

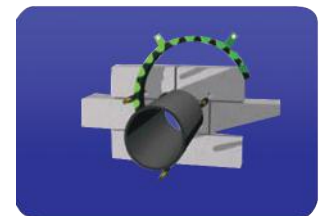
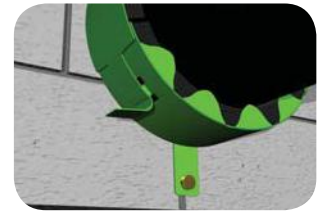


INSTALLATION

Installation on details and technical support are available from Blue Diamond departments or on the internet at www.bluediamondfireprotection.com

- Annular space between Pipe and substrate to be filled with Pyrocoustic Sealant
- Place PipeBloc PCP® Pipe Collar around pipe and hold in place using the Slide clip.
- Slide in to place.
- Fix using the require fixing, fix in to place. For some fixings a drilled hole may be required.
- NO PLASTIC or COMBUSTIBLE FIXINGS MAY BE USED

For further information see Installation Manual.



COMPLIANCE

PipeBloc PCP® Pipe Collars are manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008. For fire test information please contact the Blue Diamond technical department.



STORAGE AND DISPOSAL

PipeBloc PCP® Pipe Collars should be stored indoors ideally between +5°C to +50°C in dry conditions. There is no requirement for a shelf life period.





ENVIRONMENT

Blue Diamond contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products.

PipeBloc PCP® Pipe Collars contributes to a Green Building :-

Low VOC (air quality).

No Power Tools required for installation (no energy source required).

Dust free.

Low Ozone Depletion Potential (ODP).

Low Global Warming Potential (GWP).

No water pollution.

Smoke and Air Tightness.

Noise Reduction.

Thermal Insulation.

Recycling of Packaging.

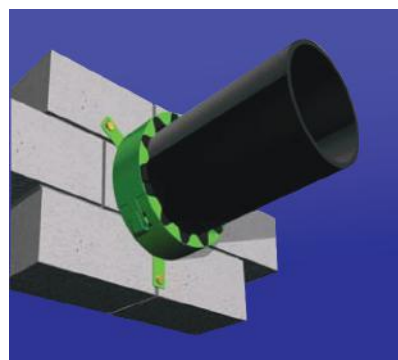
Avoidance of Air Filtration.

Does not emit halogenated by-products.

Contains no raw materials known to have an estrogenic effect.

The life cycle of PipeBloc PCP® Pipe Collars is over 25 years.





Product name	Pipebloc PCP
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Section 1: Identification of the substance/mixture and of the company / undertaking



1.1 Product identifier

Product name	Pipebloc PCP
Product Code	PCP



1.2. Relevant identified uses of the substance or mixture and uses advised against



1.3. Details of the supplier of the safety data sheet

Company Name	Blue Diamond Fire Protection Al Quoz -1 P.O.Box: 25468 Dubai - UAE
Tel	(00971) 4 340 3700
Fax	(00971) 4 340 5122
Email	bluedbc@eim.ae



1.4. Emergency telephone number

Section 2: Classification of the substance or mixture



2.1. Classification of the substance or mixture

Classification under CLP	This product has no classification under CLP
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2.2. Label elements

Label elements	This product has no label elements
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2.3. Other hazards

PBT | This Product is not identified as PBT/vPvB substance

Section 3 Composition/information on ingredients



3.2. Mixtures

Section 4: First aid measures



4.1. Description of first aid measures

Skin contact	Wash immediately with plenty of soap and water
Eye contact	Bathe the eye with running water for 15 minutes
Ingestion	Wash out mouth with water
Inhalation	Consult a doctor



4.2. Most important symptoms and effects, both acute and delayed

Skin contact	There may be mild irritation at the site of contact
Eye contact	There may be irritation and redness
Ingestion	There may be irritation of the throat
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest



4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment | Not applicable

Section 5: Fire-Fighting measures



5.1. Extinguishing media

Extinguishing Media | Suitable extinguishing media for the surrounding fire should be used



5.2. Special hazards arising from the substance or mixture

Exposure hazards | In combustion emits toxic fumes



5.3. Advice for fire-fighters

Advice for fire-fighters | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

Section 6: Accidental release measures



6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions | Refer to section 8 of SDS for personal protection details



6.2. Environmental precautions

Environmental | Do not discharge into drains or rivers



6.3. Methods and materials for containment and cleaning up

Clean-up procedures | Wash the spillage site with large amounts of water



6.4. Reference to other sections

Reference to other sections | Refer to section 8 of SDS

Section 7: Handling and storage



7.1. Precautions for safe handling

Handling requirements | Avoid the formation or spread of dust in the air



7.2. Conditions for safe storage, including any incompatibilities

Storage conditions | Store in a cool, well ventilated area



7.3. Specific end use(s)

Specific end use(s) | No data available

Section 8: Control parameters



8.1. Control parameters

Workplace exposure limits | No data available



8.1. DNEL/PNEC

DNEL/PNEC	No data available
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8.2. Exposure controls

Respiratory protection	Respiratory protective device with particle filter
Hand protection	Protective gloves
Eye protection	Safety glasses. Ensure eye bath is to hand
Skin protection	Protective clothing

Section 9: Physical and chemical properties



9.1. Information on basic physical and chemical properties

State	Solid
Odour	Odourless



9.2. Other information

Other information	No data available
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Section 10: Stability and reactivity



10.1. Reactivity

Reactivity	Stable under recommended transport or storage conditions
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10.2. Chemical stability

Chemical stability	Stable under normal conditions
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10.3. Possibility of hazardous reactions

Hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials
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10.4. Conditions to avoid

Conditions to avoid	Heat
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**10.5. Incompatible materials**

Materials to avoid | Strong oxidising agents. Strong acids

**10.6. Hazardous decomposition products**

Haz. decomp. products | In combustion emits toxic fumes

Section 11: Toxicological information**11.1. Information on toxicological effects**

Toxicity values | No data available

**Symptoms/routes of exposure**

Skin contact	There may be mild irritation at the site of contact
Eye contact	There may be irritation and redness
Ingestion	There may be irritation of the throat
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest

Section 12: Ecological information**12.1. Toxicity**

Ecotoxicity values | No data available

**12.2. Persistence and degradability**

Persistence and degradability | Biodegradable

**12.3. Bioaccumulative potential**

Bioaccumulative potential | No bioaccumulation potential

**12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment**

PBT identification | This product is not identified as a PBT/vPvB substance





12.6. Other adverse effects

Other adverse effects | Negligible ecotoxicity

Section 13: Disposal considerations



13.1. Waste treatment methods

NB | The users attention is drawn to the possible existence of regional or national regulations regarding disposal

Section 14: Transport information

Transport class | This product does not require a classification for transport

Section 15: Regulatory information



15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations | Not applicable



15.2. Chemical Safety Assessment

Section 16: Other information

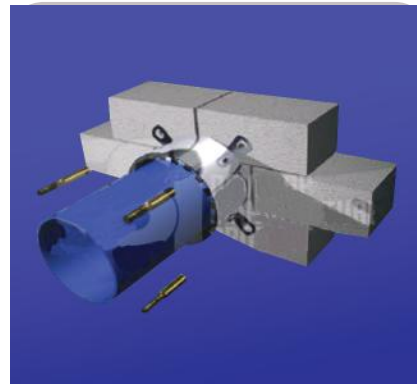


Other information

Other information | This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Legal disclaimer | The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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INTRODUCTION

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in walls and floors using the PipeBloc PCP® collar System.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

The result of this work will: -

- Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.
- Maintain the integrity of escape routes from a building.
- Reduce loss or damage to property from the effect of fire and smoke.
- Maintain pressure differential between compartments and ventilation channels.



COLLAR SYSTEM

The PipeBloc PCP® collar is made from a stainless steel shell for maximum protection in a damp environment with a fully waterproof intumescent liner. The locking tab is pressed out at the same time as the collar shell, which offers the benefit of no toggle clip to foul when installing.

PipeBloc PCP® collars have been engineered to close plastic pipes as they pass through a wall or floor. These can be either studwork or of solid nature.

If protection is required on both sides then 2 PipeBloc PCP® collars are to be fitted, one on each side of the building element.



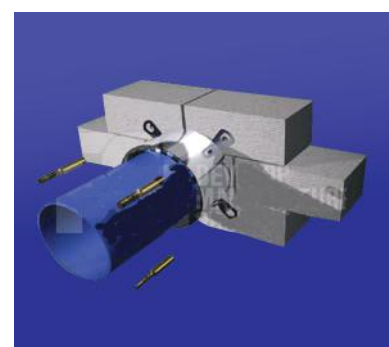
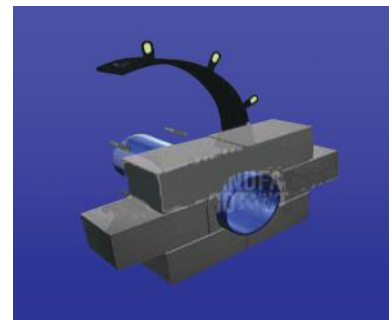
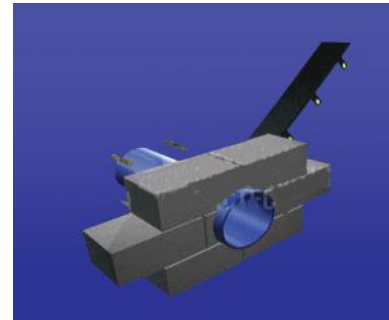
INSTALLATION

Place the PipeBloc PCP® collar around pipe and hold in place, using the slide clip to slip through the loop and fix the PipeBloc PCP® collar tightly in place by bending the slide back.

Slide in to place to ensure a snug fit to the surrounding building element.

Fix using Rawl bolts or heavy-duty screws as directed in the following details.

NO PLASTIC or COMBUSTIBLE FIXINGS MAY BE USED



RECOMMENDED FIXINGS

Fly Ash Block	75mm x M6 Anchor Bolts
Dense Engineering Bricks	40mm x M6 Anchor Bolts
Standard Bricks	50mm x M6 Anchor Bolts
Cast Lightweight Concrete	60mm x M6 Anchor Bolts
Cast Dense Concrete	40mm x M6 Anchor Bolts
Breeze Blocks	75mm x M6 Anchor Bolts
3mm+ Steel	M6 bolts or drill and self tapping screw
Fire Rated Stud Walls	M8 spring toggles, or if collars are to be used on both sides bolt straight through
Fire Rated Curtains or Mineral Wool systems	M6 bolts on a metal angle frame, which must be fixed securely to the surrounding substrate i.e., ceiling, wall or floor. See the system manufacturers