



# Technical Data Sheet

## Product: Primary Pro - Sleeves

**Product Codes:** PS028 - Primary Pro 22/28mm Sleeve | PS035 - Primary Pro 35mm Sleeve

**Date Issued:** November 2025    **Version:** Rev 1

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### Product Description

Primary Pro Sleeves are protective wall-penetration sleeves designed specifically for routing pre-insulated copper pipework through external walls.

They prevent insulation damage caused by cement, debris, abrasion, moisture and movement, helping to ensure a durable, clean and weather-resistant installation when used with Primary Pro Bond & Seal.

These sleeves provide the correct clearance for insulated pipework, preventing compression and reducing thermal bridging across the building envelope.

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### Applications

- External wall penetrations for insulated copper pipework
  - Air source heat pump installations
  - For external wall use only (not to be used in fire-rated or compartment walls)
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### Features & Benefits

- Designed specifically for external wall penetrations
  - Protects insulation from moisture, cement, chemical attack, debris and abrasion
  - Maintains insulation integrity by preventing compression
  - Works with Bond & Seal for airtight and weather-resistant sealing
  - Supports long-term system performance and reduces thermal bridging
  - Suitable for first-fix and retrofit installation
  - Can be cut to size using standard tools
  - UV-stabilised black HDPE for outdoor exposure
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### Technical Data

Property	PS028
Sleeve Material	HDPE (PE80)
Outer Diameter	~75 mm (typical 75.2 mm)
Wall Thickness	~3 mm (typical 2.6 mm)

SDR Rating	SDR25
Sleeve Length	1 metre
Compatible Pipe Size	22 mm insulated copper; 28 mm insulated copper
Colour	Black
UV Resistance	Yes
Typical Applications	Domestic primary flow/return through external walls
<b>Property</b>	<b>PS035</b>
Sleeve Material	HDPE (PE80)
Outer Diameter	~90 mm (typical 90.3 mm)
Wall Thickness	~3.5–3.9 mm
SDR Rating	SDR26
Sleeve Length	1 metre
Compatible Pipe Size	35 mm insulated copper
Colour	Black
UV Resistance	Yes
Typical Applications	Domestic primary flow/return through external walls

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## Installation

- Core-drill the opening to suit the sleeve outer diameter
- Insert the sleeve fully through the external wall
- Ensure pipe insulation is not compressed within the sleeve
- Seal internally and externally using Primary Pro Bond & Seal to ensure airtight, weatherproof penetration sealing
- Sleeves may be cut to length using standard HDPE-compatible tools
- Ensure installation complies with project-specific building regulation requirements

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## Material Properties (HDPE PE80)

Property	Value
Density	~0.95 g/cm <sup>3</sup>
Chemical Resistance	Excellent – resistant to cement, alkalis, acids
UV Stability	Carbon-black reinforced
Water Absorption	Low
Mechanical Impact Resistance	High

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## Fire & Material Information

Primary Pro Sleeves are manufactured from HDPE (PE80), which is not a fire-rated material.

These sleeves are designed for use with external wall penetrations only.

Installers must ensure all installations comply with the relevant local building regulations, standards and project-specific requirements.

Primary Pro Sleeves must not be used in fire-rated walls, floors or compartment structures.

## **Storage & Handling**

- Store in cool, dry, shaded conditions if held long-term
  - Protect sleeve ends during transport
  - Avoid prolonged UV exposure before installation
  - Handle and cut using standard HDPE-compatible tools
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## **Health & Safety**

Non-hazardous under normal use.

Follow standard site safety procedures during installation and cutting.

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## **Contact**

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