

# Product Data Sheet

4/19/2025

Heating Distribution (Plastic Pipes)

## **CLEVERFIT Radial PE-X/AL/PE-X in bars**

Romania - Purmo



- High Durability
- Oxygen Diffusion Barrier
- Versatile Application
- Flexible Installation
- Chemical Resistance

## Description

CLEVERFIT Radial pipes feature a robust five-layer construction, combining PE-X/AL/PE-X materials for enhanced strength, flexibility, and resistance to high temperatures and pressure. The inclusion of an aluminium layer effectively prevents oxygen diffusion, ensuring system longevity and performance. Ideal for use in residential and commercial heating and cooling systems, these pipes are compatible with a wide range of fittings and are available in various sizes to fit different installation needs.

## Area of Application

CLEVERFIT Radial PE-X/AL/PE-X pipes are suitable for use in heating and cooling systems, including underfloor heating, wall-mounted heating, and radiator connections. They are designed for both hot and cold water installations, with permissible application classes 1, 2, 4, and 5.

## Selection Criteria

To select the appropriate product, consider the application class, pressure requirements, and temperature ranges. For quick selection, use our design service, or refer to our brochure.

## Basic User Instructions

Ensure that CLEVERFIT Radial PE-X/AL/PE-X pipes are installed by qualified professionals. Before installation, verify that the pipes and fittings are compatible with the system design. Cut the pipes to the required length using appropriate tools, and make sure the ends are clean and free from burrs. When connecting, use the recommended fittings and ensure all joints are securely pressed. Regularly inspect the system for leaks and rectify any issues according to safety guidelines. Avoid exposing the pipes to temperatures exceeding the specified limits.

## Prescription text specifiers

CLEVERFIT Radial PE-X/AL/PE-X pipes are designed for use in heating and cooling systems as well as potable water installations. With a five-layer construction, including a PE-X outer layer, adhesive, aluminium core, and inner PE-X layer, these pipes offer high durability and flexibility. The aluminium middle layer ensures an effective oxygen diffusion barrier, crucial for maintaining system efficiency and longevity. Suitable for application classes 1, 2, 4, and 5, they can handle pressures up to 10 bar and temperatures up to 90°C, with a maximum malfunction temperature of 100°C. Refer to our technical brochure for detailed information on available sizes and compatibilities.

## Warranty

Purmo radiators are warranted for a period of 10 years\* from date of purchase against all manufacturing defects when they are used in normal conditions and for a heating system with hot water. The warranty does not apply to defects caused by installation or handling errors, misuse or factors external to the radiators, such as water quality or oxygen-permeable pipes.

Underfloor heating products and piping systems elements are warranted for a period of 10 years\*\*.

\* 6 years for galvanized radiators and 2 years for all electronic and electric components and spare parts sold separately (side covers, top grilles, plastic clips, plugs, air vents, fixing parts)

\*\* 30 years for PexPenta pipes

# Specification

Feature	Unit	Value
Etim Class		EC010225 - Multi-layered pipe, smooth
Item weight	Kilogram (kg)	2.732, 4.65, 5.56

# Resources

Document Description	Document Type	Link
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## Items

Global Item Code	Item Description
FXBS4035005RTRWS	CF PEX/AL/PEX pipe 40/3,5 5m
FXBS5040005RTRWS	CF PEX/AL/PEX pipe 50/4 5m
FXBS6345005RTRWS	CF PEX/AL/PEX pipe 63/4,5 5m