

# Product Data Sheet

5/18/2026

Heating Distribution (Plastic Pipes)

## **CLEVERFIT Radial PE-RT/AL/PE-RT**

Romania - Purmo



- **Durability**
- **Corrosion Resistance**
- **Thermal Stability**
- **Flexibility**
- **Leak-proof**

## Description

The CLEVERFIT Radial PE-RT/AL/PE-RT pipes are designed with a five-layer structure: outer and inner PE-RT layers, adhesive layers, and a central aluminum layer. This ensures excellent thermal stability, corrosion resistance, and oxygen barrier properties. The pipes are suitable for potable water and various heating applications, ensuring long-term durability and stability under high operating pressures and temperatures. They conform to the PN-EN 21003-1:2009 standards.

## Area of Application

CLEVERFIT Radial PE-RT/AL/PE-RT pipes are used in various applications including warm and cold water supply, low-temperature radiators, floor heating, high-temperature radiators, and both heating and cooling systems. They are suitable for installations with a maximum design pressure of 10 bar and a working temperature of up to 70°C, with short-term maxima up to 100°C.

## Selection Criteria

For product selection, consider the operating pressure, temperature, water type, and required pipe diameter. Use our design service or refer to the product brochure for quick selection.

## Basic User Instructions

Install CLEVERFIT Radial PE-RT/AL/PE-RT pipes according to standard plumbing practices. Ensure pipe ends are clean and cut square. Use appropriate fittings and tools, such as pipe cutters and crimping tools, to ensure secure connections. Check for leaks before covering pipes. Observe maximum pressure and temperature ratings. Store pipes in a cool, dry place and avoid exposure to direct sunlight. Handle with care to prevent damage or kinking.

## Prescription text specifiers

CLEVERFIT Radial PE-RT/AL/PE-RT multi-layer pipes are designed for high performance in heating and water supply systems. Constructed with five layers - PE-RT II (outer and inner), adhesive, and an aluminum core - these pipes offer excellent resistance to high temperature and pressure (up to 95°C and 10 bar respectively). Their low thermal expansion and high flexibility simplify installation. They meet EN 21003-1:2009 standards and are suitable for potable water, offering a 50-year lifespan under defined working conditions.

## 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) | 0.1376, 0.3295, 12.765, 5.3                            |
| Weight      | Kilogram (kg) | 0.109, 0.1355, 0.2553, 12.765, 2.548, 5.3, 6.775, 65.4 |

# Resources

| Document Description | Document Type | Link |
|----------------------|---------------|------|
|----------------------|---------------|------|

## Items

| Global Item Code | Item Description               |
|------------------|--------------------------------|
| FRBC1620050PXB06 | CF PERT-A-PERT 16X2 I6 BLUE 50 |
| FRBC1620050PXR06 | CF PERT-A-PERT 16X2 I06 RED 50 |
| FRBC1620200RTRWS | CF PERT/AL/PERT PIPE 16/2 200  |
| FRBC1620600RTRWS | CF PERT/AL/PERT PIPE 16/2 600  |
| FRBC2020050PXB06 | CF PERT-A-PERT 20X2 I6 BLUE 50 |
| FRBC2020050PXR06 | CF PERT-A-PERT 20X2 I06 RED 50 |
| FRBC2020100RTRWS | CF PERT/AL/PERT pipe 20/2 100m |
| FRBC2020200RTRWS | CF PERT/AL/PERT pipe 20/2 200m |
| FRBC2630050PXB06 | CF PERT-A-PERT 26X3 I6 BLUE 50 |
| FRBC2630050PXR06 | CF PERT-A-PERT 26X3 I06 RED 50 |
| FRBC2630050RTRWS | CF PERT/AL/PERT pipe 26/3 50m  |
| FRBC3230050RTRWS | CF PERT/AL/PERT pipe 32/3 50m  |
| FRBS3230005RTRWS | CF PERT/AL/PERT pipe 32/3 5m   |
| FRBS4035005RTRWS | CF PERT/AL/PERT pipe 40/3,5 5m |
| FRBS5040005RTRWS | CF PERT/AL/PERT pipe 50x4 5m   |
| FRBS6345005RTRWS | CF PERT/AL/PERT pipe 63x4,5 5m |