

Product Data Sheet

4/25/2025

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)	0.109, 0.1376, 0.2553, 0.3295, 0.7, 1.1, 12.765, 2.694, 5.3, 6.775, 65.4
Weight	Kilogram (kg)	0.5

Resources

Document Description	Document Type	Link
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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