



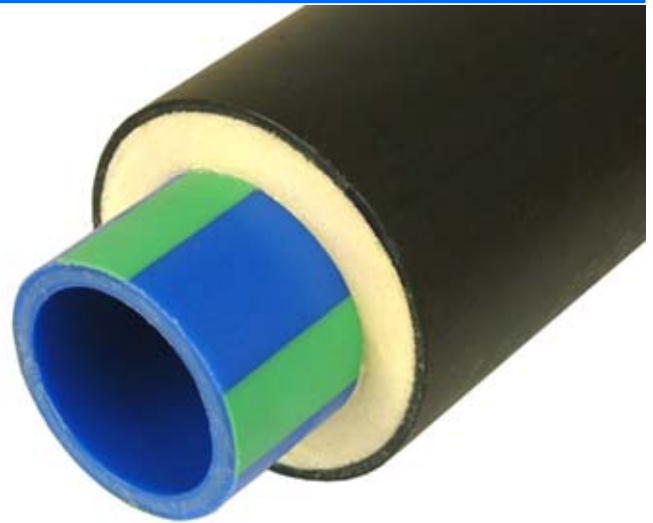
# Climatherm Pre-Insulated Pipe

## Applications:

- Heating Hot Water
- Domestic Hot Water
- Chilled Water
- Aboveground
- Underground
- In Service Ducts & Shafts

## Climatherm Pipe

Thermal Conductivity	0.15 W/m <sup>2</sup> K
Temperature Range	-20°C to +90°C
SDR Rating	11
Pressure Rating	Refer to Aquatherm Permissible Working Pressures



## Climatherm Pipe Dimensions

Pipe OD	20	25	32	40	50	63	75	90	110	125	160
Pipe ID	16.2	20.4	26.2	32.6	40.8	61.4	61.4	73.6	90	102.2	140.3

## Insulation

Thermal Conductivity	0.024 W/m <sup>2</sup> K
Insulation Compressive Strength	320 kPa
Shear Strength	205 kPa
Density	65 kg/m

An Insulation with a zero ozone depletion rating is available for green buildings  
 Insulation thickness & outer casing diameter will vary depending on installation parameters

## HDPE Outer Cladding

Material	High Density Polyethylene
Type	PE 80C NZS 4130:1997 high density black

## HDPE Cladding Dimension Options

Casing OD	63	75	90	101	111	126	145	159	185	213	250
Casing ID	57	67	82	96	106	121	139	153	178	205	240

## Expansion

In an underground installation there is no additional requirements to allow for expansion.  
 The polyurethane foam insulation adherence to the Climatherm pipe combined with the soil resistance will restrain longitudinal expansion of the pipe.  
 This is achieved by tightening of the molecules in the Climatherm pipe under tension.

## Service Life

When used within the above parameters the pipe & insulation system has a rated life of 50 plus years.  
 A warranty of 10 years for the pipe and insulation system is available.