

climaflex®

Polyethylene Pipe Insulation
Totally CFC- and HCFC-free
Ozone Depletion Potential of **ZERO**



nmc





climaflex®

The Polyethylene Pipe Insulation for Today - with all our Futures in Mind.

The ideal Insulation for Frost Protection and Energy Conservation

climaflex® - the positive answer

- **Totally CFC and HCFC FREE.**
- Has an **Ozone Depletion Potential of ZERO.**
- The Thermal Conductivity of 0.034 W/mK at 0°C allows for the use of thinner wall thicknesses.
- **climaflex®** meets the 'W35' category for Water Regulations.
- The combination of flexibility, along with the use of smaller sizes to meet various regulations, leaves **climaflex®** in a class of its own.
- **Fully slit sizes 25 mm and 19 mm wall thicknesses.**
- A full range of accessories is available. See product guide.

climaflex® Product range

Approx. Size mm	Nominal Bore		Wall thickness					
	Copper	Iron	9 mm	13 mm	19 mm	20 mm	25 mm	32 mm
15	1/2"		15-9*	15-13*	15-19	15-20	15-25*	15-32
22	3/4"	1/2"	22-9*	22-13*	22-19*	22-20	22-25	
28	1"	3/4"	28-9*	28-13*	28-19*	28-20	28-25	
35	1 1/4"	1"	35-9	35-13		35-20		
42	1 1/2"	1 3/4"	42-9	42-13				
48		1 1/2"	48-9	48-13				
54	2"		54-9	54-13				
60		2"	60-9					
76		2 1/2"	76-9					

Standard lengths: 2 m *available in 1 metre lengths - 1/2 carton quantities

NMC sa reserves the right to change or modify any of the technical data or size range of its products without prior notice. The technical data contained in this brochure has been obtained under specific test conditions and the correct application of our products is the responsibility of the user.

Distributed by:

Technical data

Material	Closed-cell polyethylene foam
Thermal conductivity	$\lambda = 0.034$ W/mK at 0°C (DIN 52613) $\lambda = 0.036$ W/mK at 20°C (DIN 52613) $\lambda = 0.038$ W/mK at 40°C (DIN 52613)
Ignition Resistance	BS 476, Part 12 : 1991 no ignition source A
Water vapour permeability	$\mu \geq 16.000$ (DIN 52615)
Water absorption	0.5 % vol. after 40 days (DIN 53495)
Temperature Range	-45°C to +105°C
Normal density	30 kg/m ³
Physiologically neutral - does not rot.	

Building Regulations L1

The Minimum Thicknesses of **climaflex®** required to meet the Building Regulations are listed below

Building Regs L1	Hot Water Services	Domestic Heating
Energy Conservation	Thermal Conductivity W/mK at 40°C Not exceeding	
Pipe Dia. O/D (mm)	0,040 Wall Thickness	0,040 Wall Thickness
10	13	9
15	13	13
22	13	19
28	13	25
35	13	32

Care should be taken to satisfy Building Regulations and Water Regulations in **all areas.**

Water Regulations 1999 Frost Protection

The Minimum Thicknesses of **Climaflex®** required to meet the New Water Regulations are listed below

Pipe Dia. O/D (mm)	Normal Conditions	Extreme Conditions
15	25	32
22	19	25
28	19	25
35	9	13
42	9	13
54	9	9
76	9	9

These recommendations refer to a normally occupied domestic dwelling house.

Absences in excess of 24 hours is not considered normal.

The thickness of insulation is considered the minimum to provide worthwhile protection against freezing.

"Normal Conditions" Inside the building and within the envelope of the insulation where heat is normally provided.

"Extreme Conditions" Inside the building but outside the envelope of the insulation i.e. above the thermal insulation in a loft space, under a suspended ground floor. Areas without heating services, inside the structure of the building.



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