

## MultiSKIN4



- 1 PE-Xc
- 2 Adhesive
- 3 Aluminium 0,4mm
- 4 Adhesive
- 5 PE-Xc

### Description

MultiSKIN is a full range of multilayer pipes with diameters from 14 to 63mm. They are constructed in PE-Xc/Al, with a strong aluminium core for more resistance to high temperatures and pressures. These pipes conform to EN ISO 21003 standards and are available in lengths, rolls, pre-insulated and protected in a corrugated conduit.

### Product features

- Available in sizes 14 to 63 mm
- 5 layers: cross linked polyethylene / adhesive / aluminium / adhesive / cross linked polyethylene.
- Inner aluminium core longitudinally butt-welded for a homogenous wall thickness and a perfectly oxygen-tight pipe.
- Aluminium thickness: 0.4mm
- Available naked, corrugated, insulated (6, 10 or 13mm thickness), and twin (two corrugated pipes together).

### Benefits

- Temperature and pressure resistant.
- Low heat expansion.
- Non-corrosive.
- Shape retaining.
- Wear resistant.
- Impermeable to oxygen.
- Light and easy to handle.
- Noise-reducing.

## Applications

### MultiSKIN4 applications

MultiSKIN4 is suitable for all heating and plumbing applications. The pipes can be used in new installations as well as for renovations. They can be concealed or exposed.

Application	Description	Operating temperature	System operating pressure
<b>Drinking water</b>	For drinking, hot and cold water systems.	+5°C to +95°C	10 bar
<b>Heating and cooling</b>	For heating systems, up to the pressure values indicated.	-10°C to +95°C	10 bar
<b>Rainwater</b>	For rainwater systems in buildings, up to the pressure values indicated.	-10°C to +95°C	10 bar
<b>Compressed air</b>	For compressed air systems for oil-free systems (with an oil filter fitted in front of the system).	-10°C to +70°C	10 bar

### MultiSKIN4 gas applications

MultiSKIN4 gas is suitable (according local certification) for gas applications. The pipes can be used in new installations as well as for renovations.

Application	Description	Operating temperature	System operating pressure
<b>Gas</b>	For gas systems in countries where the system has been inspected and obtained certification.	-10°C to +60°C	200 mbar
<b>Lubricated compressed air</b>	For lubricated compressed air systems.	-10°C to +60°C	10 bar

*MultiSKIN4 Gas pipes comply with the ISO/FDIS 17484-1/2006 European requirements for multilayer pipe systems, for indoor gas installations with a maximum operating pressure up to and including 5 bar (500KPa), Part 1 : specifications for systems.*

## Installation

### Pipe dimensions

Pipe diameter (mm)	14	16	18	20	26	32	40	50	63
Inner diameter (mm)	10.0	12.0	14.0	16.0	20.0	26.0	33.0	42.0	54.0
Wall thickness (mm)	2.0	2.0	2.0	2.0	3.0	3.0	3.5	4.0	4.5
Thickness of the aluminium	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.9	1.2
Minimum manual bending radius / outer spring (mm)	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	-	-	-	-
Minimum manual bending radius / inner spring (mm)	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	-	-	-	-
Weight (g/m)	108	125	132	147	252	39	528	766	1.155
Content (l/m)	0.072	0.113	0.154	0.201	0.314	0.53	0.803	1.32	2.042

### Corrugated pipe



Pipes running through floors, walls or ceilings should be protected with a sleeve. After assembly, it is also advisable to protect the pipes against damage caused by other work being done on the site. The corrugated protector is made of polyethylene. It is fully impermeable and can withstand temperatures from - 5°C to 80°C as well as a standard load of 450 Newtons.

### Insulated pipe



Comap provides pipes with a round thermal insulating material. The extruded polyethylene foam protects the pipe against condensation, heat loss, expansion and noise transmission. Pipes should also be protected where they are grouped at high temperatures (floor heating effect).

*Quality standard: UNI and ISO 9002-94*

*Lambda value: 0.040W/mK at 40°C*

*Fire classification: 1-UNI 9177 and UNI 8457*

## Warranty & Certifications

Certifications:



MultiSKIN4 pipes are free from material or workmanship defects for a 10 years period as from the date of sale.

This warranty is subject to conditions. To have the details of our warranty conditions please ask your Comap representative.