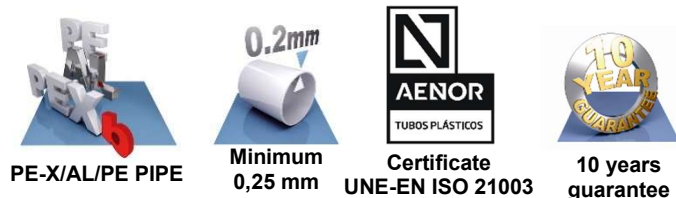




## CONNECTIONS, SYSTEMS & REGULATION

### MULTILAYER SYSTEM

#### PE-XB/AL/PE PIPE



BetaSkin-S is a complete range of multilayer pipe, with diameters from 16 mm to 50 mm. They are made of polyethylene with a lighter aluminium core (PEXb-Al-PE), to provide more resistance in high temperatures and pressures and greater flexibility in pipe handling.

The aluminium layer ensures oxygen tightness and dimensional stability properties of the pipe. Combining the qualities of the metal tube and plastic, the multilayer tube is easily deformable but maintains the given position, making it an optimal solution for all types of installations.

It is a flexible and easy-to-assemble piping system, so the time and fittings of the installation are reduced. Aging and durability tests (performed according to UNE-EN ISO 21003) guarantee a life of more than 50 years.

The tubes are manufactured and certified according to UNE-EN ISO 21003.  
They are available in roll and bar.

#### Technical specifications:

- Available from 16 mm to 50 mm.
- 5 layers: Cross-linked polyethylene/Adhesive/Aluminium/Adhesive/Polyethylene.
- Aluminium layer welded longitudinally. Overlapping aluminum layer for dimensions 40 and 50 mm.
- Minimum aluminum thickness 0.25 mm.

#### Advantages

- Resistant to temperature and pressure.
- Minimal linear dilation.
- Corrosion resistant.
- Shape memory.
- Wear resistance.
- Oxygen barrier.
- Lightweight and manageable.
- Noise reduction.



BETASKIN-S: 5 LAYERS

1	PE-Xb
2	Adhesive
3	Aluminium: 0.25mm (Ø16)
4	Adhesive
5	PE

#### Applications

BetaSkin-S is suitable for all plumbing and heating applications.

Pipes can be used in new installations as well as for renovation.

It can be installed recessed or in sight.

System certified according to UNE-EN ISO 21003 in combination with MultiStandard and MultiStandard Plus accessories.



## CONNECTIONS, SYSTEMS & REGULATION

### MULTILAYER SYSTEM

#### PE-XB/AL/PE PIPE

Application	Operating temperature	Operating pressure
Sanitary water	-10 °C to +95 °C	6 bar
Heating and cooling	-10 °C to +95 °C	6 bar
Rainwater	-10 °C to +95 °C	6 bar
Dry compressed air (*)	Room temperature	6 bar

(\*) Oil-free

#### Pipe dimensions

Technical properties	Value							
Pipe diameter (mm)	16	18	20	25	26	32	40	50
Inner diameter (mm)	12.0	14.0	16.0	20.0	20.0	26.0	32.0	41.0
Wall thickness (mm)	2.0	2.0	2.0	2.5	3.0	3.0	4.0	4.5
Aluminum thickness (mm)	0.25	0.3	0.3	0.35	0.35	0.5	0.4	0.5
Minimum manual curvature radius Extern bending spring (mm)	$\geq 5 \times D$	$\geq 5 \times D$	$\geq 5 \times D$	$\geq 5 \times D$	$\geq 5 \times D$	-	-	-
Minimum manual curvature radius Intern bending spring (mm)	$\geq 3 \times D$	$\geq 3 \times D$	$\geq 3 \times D$	$\geq 3 \times D$	$\geq 5 \times D$	-	-	-
Weight (g/m)	110	125	147	230	266	366	500	750
Water volume (l/m)	0.113	0.154	0.21	0.314	0.314	0.53	0.90	1.42

#### PROTECTION FOR MULTILAYER PIPE

##### INSULATED PIPE

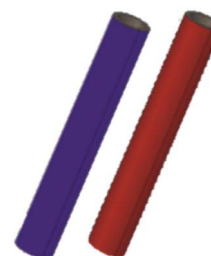
Indicated by the RITE and its ITCs about the insulation of thermal pipe networks, all pipes and fittings will have thermal insulation. STH provides pipes with a layer of thermal insulating material.

Pre-insulated multilayer tubes are equipped with expanded PE foam for thermal insulation to protect them from condensation and heat loss (thermal loss), expansion and noise transmission. PE foam is insulated with a red and blue extruded PE film. Thermal insulation is CFC-free and has the following properties:

Lambda value (ISO 8497): 0,040 W/mK at +40°C

Operating temperature: -30°C to 95°C

Density: 35-45 kg/m<sup>3</sup>





## CONNECTIONS, SYSTEMS & REGULATION

### MULTILAYER SYSTEM

### PE-XB/AL/PE PIPE

Range available

Boxed rolls



Code	Ø	Roll (m)	Pallet (m)
<b>F65200</b>	16 x 2,0	100	900
<b>F65202</b>	20 x 2,0	100	600
<b>F65203</b>	25 x 2,5	50	250
<b>F65204</b>	32 x 3,0	50	250
-	-	-	-

Bars on cylinders



Code	Ø	Strip (m)	Number of cylinder strips	Cylinder (m)
<b>F65571</b>	16 x 2.0	3	50	150
<b>F65572</b>	20 x 2.0	3	35	105
<b>F65573</b>	25 x 2.5	3	18	54
<b>F65574</b>	32 x 3.0	3	12	36
<b>F65575</b>	40 x 4.0	3	5	15
<b>F65576</b>	50 x 4.5	3	5	15

Boxed blue roll



Code	Ø	E (mm) insulator	Roll (m)	Pallet (m)
<b>F65540</b>	16 x 2.0	6	50	250
<b>F65542</b>	20 x 2.0	6	50	250
<b>F65543</b>	25 x 2.5	10	25	125

Boxed red roll



Code	Ø	E (mm) insulator	Roll (m)	Pallet (m)
<b>F65550</b>	16 x 2.0	6	50	250
<b>F65552</b>	20 x 2.0	6	50	250
<b>F65553</b>	25 x 2.5	10	25	125