

PRODUCT DATA SHEET

Quadruple

Hyper flexible, pre-insulated piping system, combining two heating pipes and two sanitary pipes in the same jacket pipe, primarily intended for the transport of heating water and sanitary hot water in buried distribution network connecting the heat source with its points-of-use.

The medium pipes are made from cross-linked polyethylene PE-Xa with an orange coloured oxygen-diffusion barrier for the heating flow line and a blue coloured one for the heating return, the sanitary circulation lines are whitish.

The multilayer thermal insulation is made from cross-linked, microcellular polyethylene PE-X foam with a water-repellent closed cell structure, characterized by its durable, non-ageing insulation performance, and its permanent elasticity, maximizing and maintaining the thickness of the insulation layer, even after bending multiple times.

The high-grade, black coloured UV-resistant, double walled, corrugated HDPE jacket pipe shields the pre-insulated piping system against mechanical impacts and moisture, whilst maintaining maximum flexibility.



- Heating medium pipes:
PE-Xa/SDR 11/PN 6
- EVOH Oxygen barrier in accordance with ISO 17455
- Sanitary medium pipes:
PE-Xa/SDR 7,4/PN 10
- Continuous operating temperature: 80°C
- Max. operating temperature: 95°C
- PE-X insulation foam: < 1% water absorption in accordance with ISO 2896
- Full coil length, all dimensions: 100 m
- CFC-free production process

Quadruple

	Jacket pipe	Medium pipe		Bending radius	Water content		Heating capacity		Weight
Art. No.	d _{out} [mm]	d _{out} x s [mm]	d _{in} [mm]	[m] ⁽¹⁾	Heating [l/m]	Sanitary [l/m]	[kW] ⁽²⁾	m/s	kg/m
Q160H25S2520	160	(2x) 25 x 2,3 25 x 3,5 20 x 2,8	2 x 20,4 18,0 14,4	0,60	0,654	0,417	10 - 30	0,5 - 1,1	2,5
Q160H32S2520	160	(2x) 32 x 2,9 25 x 3,5 20 x 2,8	2 x 26,2 18,0 14,4	0,60	1,078	0,417	30 - 60	0,6 - 1,3	2,6
Q160H32S3225	160	(2x) 32 x 2,9 32 x 4,4 25 x 3,5	2 x 26,2 23,2 18,0	0,60	1,078	0,677	30 - 60	0,6 - 1,3	2,8
Q200H40S4032	200	(2x) 40 x 3,7 40 x 5,5 32 x 4,4	2 x 32,6 29,0 23,2	0,80	1,670	1,083	40 - 100	0,6 - 1,5	3,5

⁽¹⁾ The indicated minimum bending radius can be applied permanently without affecting the system's quality or performance

⁽²⁾ Heat capacity in kW for the carrier pipe (at T_{water} of 80°C and a ΔT of 20°C)

The installation of adequately anchored fix points at the system's extremities (typically at wall penetrations) is mandatory. This is to secure the connected piping against the potential impact of the system's dilatation forces (thermal expansion/retraction).

To prevent ingress of (ground) water, Terrendis prescribes the usage of shrink end caps to seal the extremities of the non-bonded piping system.

Failing to do so involves a genuine damage risk and automatically voids the system warranty.