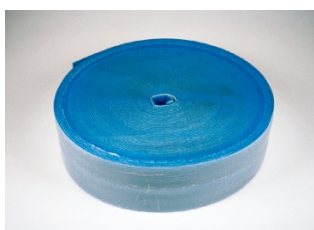


**SYSTEM N° 23
COMMERCIAL KNUCKLED 20
ELEMENTS DESCRIPTION**



DST

knuckled slab 10 treaded density 30 Kg; bugnato e battentato; with anti diffusion plastic film yellow; $\lambda_D=0,034$ W/mK sintered expanded polystyrene insulation; printing closed cell; marked CE; compliant in accordance to UNI 13163 e EN 1264/4; 200 kPa; surface 1200 x 800 (0,96 m²).
R_D 0,676 h. mm. 23 (55 with knuckle) . R_D 0,970 h. mm. 33 (60 with knuckle)



CPA 25/10

perimeter band of flexible polyethylene foam, ensures the thermal expansion of the screed. Adhesive strip on the whole rear side to more easy installation, Height mm. 250 thickness mm. 10



PE-Xa 20x2

crosslinked polyethylene pipe with peroxide method, equipped with oxygen barrier evoH. Raw material is high density polyethylene (HDPE) 951 kg/m³, this pipe has a lower degree of crystallization which makes the same more flexible than that of the competitors. The pipe is crosslinked immediately after the exit from the extrusion head by heating with an infrared radiation at high power and short wavelength with a degree >75%.

Certifications: IIP; CSTB; SKZ; IQNET; AENOR

DIN EN 12318-2 (former DIN 16892) compliant in accordance to ASTM F876 / F877.

**SYSTEM N° 23
COMMERCIAL KNUCKLED 20
ELEMENTS DESCRIPTION**



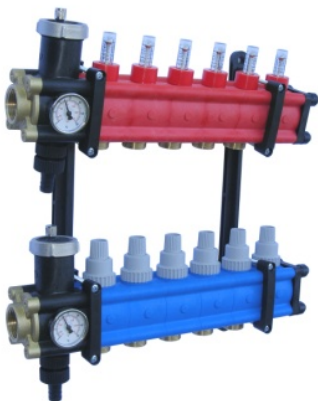
PE-RT 20x2

polyethylene pipe with oxygen barrier evoH, this particular type of extrusion allows the high malleability of the pipe also in winter. Raw material is polyethylene with high thermal resistance with evoH oxygen barrier. According to DIN EN ISO 22391. IIP n° 261 / 2011 – Rev. 0 certifies that the product described complies with requirements indicated and IIP specified in the general regulations and special rules applicable and evaluated against the requirements document Sincert RT06



CIM

steel sheet cabinet for manifold with mobile guides . Adjustable in depth from 110 to 150 mm. Lock with screwdriver. Suitable for the containment of manifolds in the range. Available in widths of 40, 50, 60, 70, 85, 100, 120, 130



POLISWELL

modular manifold 1" ¼ in polyamide reinforced with glass fiber, thermostatic valve on the return, with flow rate, with n. 2 thermometers, n. automatic 2 automatic airvent, n. 2 exhaust terminals, and n. 2 brackets.

**SYSTEM N° 23
COMMERCIAL KNUCKLED 20
ELEMENTS DESCRIPTION**



APX 20

fittings for connection of polyethylene pipes (PE Xa or PE RT) to the manifolds of the range swell system



TEP

actuator for electrical control of the manifold, 230 V, normally closed 2 or 4 wire, (with a limit switch for an additional electrical equipment like a boiler, a pump, or other).



TE 411

electronic room thermostat **WC** white with: big display graphic icons matched to the front buttons for choice of mode operation. Choice Celsius or Fahrenheit. Powered by 2 AA 1.5 V alkaline. Battery life more than 4 years, an indication of insufficient charging of batteries. Max temp 45°C Dimensions 135 x 83 x 21



CP 22

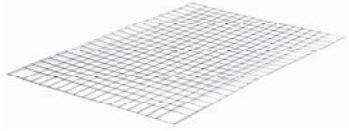
curve support at 90° in polyamide reinforced with glass fiber. No scratch pipe



CC 83

u - clip for pipe in nylon reinforced with glass fiber at 50%, for fixing pipe to the slab in case of damaged knuckles

**SYSTEM N° 23
COMMERCIAL KNUCKLED 20
ELEMENTS DESCRIPTION**



REZ 7/7/2

galvanized ribbed mesh. Decreases formation of cracks caused by temp differences and prevent the creation of projections in the floors. Measures mm. 2000 x 1000 mesh 70 x 70 x 2. Pack n. 20 sheets (m² 40).
Wire is knurled for better gripping on the concrete slab



GDH 11

expansion joint in flexible foam of red polyethylene, with adhesive, length mm 2000, height mm. 116, thickness mm. 7, Required for areas larger than 40 m²



GC 19

corrugated sheath precutted in black polypropylene copolymer, provided with corrugation perpendicular to the longitudinal axis; good flexibility even at low temperatures. Pre cutted in the longitudinal direction to allow the application on the pipe when is yet installed



LA 45

Liquid additive for concrete slab. Designed to reduce the mixing water, improves the fluidity of the concrete, promotes good workability without delaying the development of mechanical strengths. Recommended dosage: 1% by weight of cement powder

**SYSTEM N° 23
COMMERCIAL KNUCKLED 20
ELEMENTS DESCRIPTION**



SWC 30

protective liquid for underfloor radiant system. Balanced composition of corrosion inhibitors with anti scaling action, also generates a healing effect against lime deposits or biotic, and also to corrosion residues may be present in the plant. Also generate an algostatic effect. Compatible with all metals and plastic elastomers. Biodegradable. Dosage 1 kg every 200 litres of water in the system.