

Application technology, 5th edition

Volume III:

Fonterra radiant heating and cooling



Fonterra system overview

Floor systems

Fonterra Base Flat 12



Fig.1: Fonterra Base Flat 12

- Thin-layer screed system
- For refurbishment applications, construction heights 35 mm and up
- Fonterra Base Flat screed additive is added to the commercially available cement screed
- Hard enough to walk on after 48 hours. Start of functional heating after 5 days
- Highly flexible PB pipe 12 x 1.3 mm

Fonterra Base



Fig.2: Fonterra Base

- Snap plate system
- Two pipe dimensions can be combined
- PB pipe 12 x 1.3 mm, 15 x 1.5 mm or 17 x 2.0 mm
- Multilayer pipe 16 x 2.0 mm
- PE-Xc pipe 17 x 2.0 mm
- PE-RT pipe 17 x 2.0 mm
- Safe pipe mounting
- For flow and cement screed
- Diagonal laying is possible

Fonterra Tacker 15/17/20

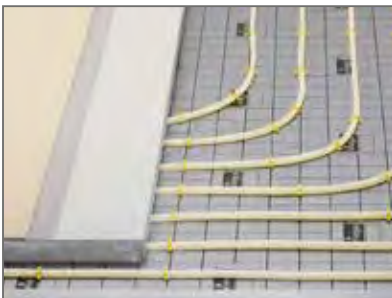


Fig.3: Fonterra Tacker 15/17/20

- Flexible tacker system
- Three pipe dimensions can be laid
- PB pipes 15 x 1.5 mm, 17 x 2.0 mm or 20 x 2.0 mm
- PE-Xc or PE-RT pipes, 17 x 2.0 mm or 20 x 2.0 mm
- Three different insulation thicknesses
- For flow and cement screeds
- Rolled goods or folding plates

Fonterra Reno



Fig.4: Fonterra Reno

- Dry underfloor heating system
- Small installation height, 21 mm and up
- Fast reaction time
- Casting compound for laminate/ carpeting/tiles
- Direct tiling possible
- On-site insulation possible
- PB pipe 12 x 1.3 mm

Wall systems

Fonterra Side 12



Fig.5: Fonterra Side 12

- Dry construction system
- Plaster board 18 mm
- Integrated PB pipes 12 x 1.3 mm
- Direct manifold connection
- No additional sealing of the surfaces
- Heating area max. 5 m²

Fonterra Side 12 Clip

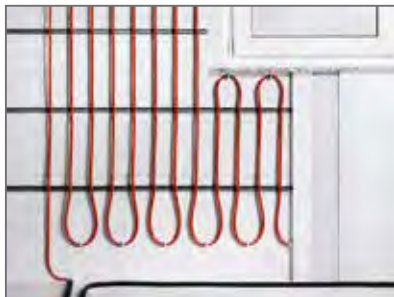


Fig.6: Fonterra Side 12 Clip

- Plaster system
- For all commercially available wall plasters
- Laying of PB pipes 12 x 1.3 mm on site
- Direct manifold connection
- Safe fastening by means of clipping rail
- Heating area max. 6 m²

Ceiling systems

Fonterra Top 12



Fig.7: Fonterra Top 12

- Dry construction system
- Gypsum fibre ceiling panels with integrated pipelines
- PB pipes 12 x 1.3 mm
- Mounting on metal sub-construction
- Direct manifold connection
- Heating area max. 5 m²

Special systems

Active



Fig.8: Fonterra Active

- Building part activation for heating/cooling
- On-site register mounting on the building site
- Positioned in the central layer
- Guaranteed drilling depths
- Pipes made of oxygen-sealed PE-Xc, PE-RT or PB in dimensions 17x2.0 or 20x2.0 mm



Fig.9: Fonterra Active Detail

Industry



Fig.10: Industry

- For industrial and heavy-load floors
- Low heat loss over the hall height
- Also for traffic loads > 5 kN/m²
- PE-Xc, PE-RT, or PB pipes 20x2.0 and 25x2.3 mm
- Absolute freedom of design
- No static requirements in the ceiling

Fonterra Sport




- All-surface heating
- Warm floor (gymnastics area)
- Small heat loss over the height of the hall
- Little dust blow-up
- Energy-saving
- Pipes made of oxygen-sealed PB 15x1.5 mm or PE-Xc, PE-RT, PB 20x2.0 or 25x2.3 mm

Fig.11: Fonterra Sport

System table

System properties	Floor				Wall		Ceiling	Special systems		
	Base Flat 12	Base 12/15/17	Stapler	Reno	Side 12	Side 12 Clip	Top 12	Active	Industry	Sport
Heating	■	■	■	■	■	■	■	■	■	■
Cooling	■	■	■	■	■	■	■	■	■	■
New residential constructions	■	■	■	■	■	■	■	■	—	■
Refurbishment of residential buildings	■	■	■	■	■	■	■	■	■	■
Office buildings	■	■	■	■	■	■	■	■	■	■
Industrial buildings	■	■	■	■	■	■	■	■	■	■
Damp rooms	■	■	■	■	■	■	■	■	■	■
Small installation height	■	■	■	■	■	■	■	■	■	■
High payload	■	■	■	■	—	—	—	■	■	■
Easy to mount	■	■	■	■	■	■	■	■	■	■
Combination of the systems	■	■	■	■	■	■	■	■	■	■
Reactivity	■	■	■	■	■	■	■	■	■	■

■ very well suited ■ well suited ■ less suited — please choose another system

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