Application technology, 5th edition

Volume III: Fonterra radiant heating and cooling
Fonterra system overview

Floor systems

**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**
- 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**
- 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
Application technology: Fonterra radiant heating and cooling

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

- 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

- 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 clamping rail
- Heating area max. 6 m²
Ceiling systems

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

Fig.7: Fonterra Top 12

Special systems

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 17 x 2.0 or 20 x 2.0 mm

Fig.8: Fonterra Active

Fig.9: Fonterra Active Detail

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 20 x 2.0 and 25 x 2.3 mm
- Absolute freedom of design
- No static requirements in the ceiling

Fig.10: Industry
### 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 15 x 1.5 mm or PE-Xc, PE-RT, PB 20 x 2.0 or 25 x 2.3 mm

### System table

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