



MAX 4

Reinforcing sheets

Reinforcing sheets are manufactured from 2 sheets of special profiled steel and designed for use on existing timber or concrete floors where an extremely thin liquid screed solution is required. MAX 4 reinforcements sheets are available in two variations - FS10 - 10 mm thick and FS20 - 20 mm thick and both ideal for use with under floor heating.

MAX 4 floor system

MAX 4 sheets provide a great solution for leveling uneven existing floors with the introduction of reinforced ultra thin light weight liquid screed floors in projects where weights and heights restrictions are an issue.

Applications

- Fixing on tile and natural stone products on existing timber floors
- Up-grading and leveling of existing timber floors and concrete floors
- Introduction of micro pipe under floor heating to any type of floor
- Waterproofing bathrooms, wet rooms and kitchen floors



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MAX 4 Reinforcing sheets

The MAX 4 reinforcement sheets are easy to install and connect to each other with a half lipped joint. The floor is completed by pouring a liquid screed finish to the required depth and when dry ready to accept final floor finishes.

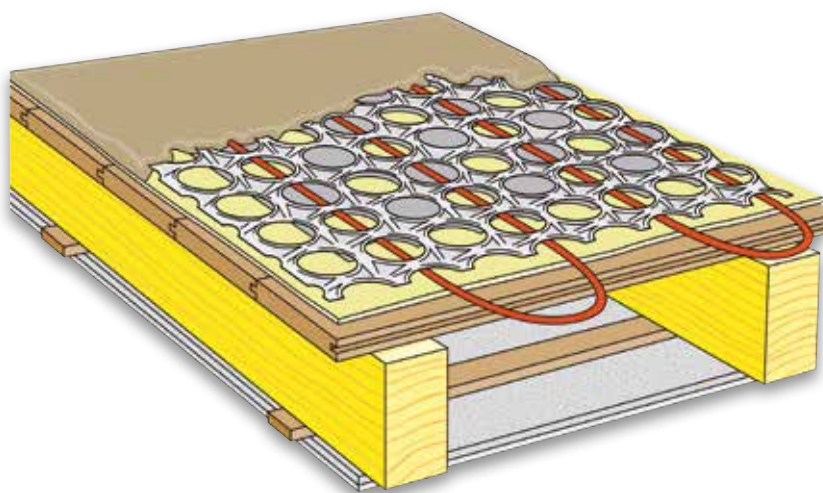
Once screeded we have a reinforced floor covering of two floor thickness: 15 mm with FS10 and 25 mm with FS20, approximately 32 – 50 kg/m² dead load and ready to accept almost any hard or soft floor covering.

Underfloor heating

The unique twin profile of MAX 4 sheets allow the threading of 8 mm and 10 mm water U/F heating pipes between the two sheets. The extremely high spec 5 layer PE-RT 80 (Dowlex 2344) with EVOH oxygen barrier under floor heating pipes ensure that they are oxygen tight and in accordance with DIN 4726. The pipes are highly flexible, easy to handle and provide long life performance.

The heating pipes are connected to a standard under floor heating system using 2 and 4 port manifold. The shallow depth of the MAX 4 sheets ensure rapid heating up and optimal heat spread. MAX 4 also works well with electric under floor heating.





Acoustic Floors

The acoustic performance of existing timber or concrete floors can be considerably improved with the introduction of FONOFIVE® acoustic mat under a MAX 4 floating floor. FONOFIVE® is made up of a 1.5 mm layer of acoustic insulation with base layer backing of 4.5 mm thick non-woven polyester.

A MAX 4 / FONOFIVE® floating floor on an existing timber floor provides impact noise reduction of approx. 20 dB. Detailed reports available.

Properties

- Extremely low weight with high load bearing capability
- Extremely low final floor thickness
- Self leveling reinforced floor covering
- Stable floor base with the comfort of a concrete floor feel
- Non flammable
- High permissible load
- An acoustic floating floor
- Screeded with gypsum or cement based liquid screeds
- Ideal for a wet or electric under floor heating systems
- Rapid heat up and heat spread



MAX 4 Reinforcing sheets



Load-bearing capacity of MAX 4 floor system in finished state

TYPE	Ht in mm	Prep kN/m ² (kgf/m ²)	Pu kN/m ² (kgf/m ²)
FS10	15 mm	max. 5,00 (500)*	3,5 (350)
FS20	25 mm	max. 5,00 (500)*	3,5 (350)

Ht = profile height + liquid screed

Prep = equal distribution of load in accordance with NEN 6702

Pu = measured average failure load

* if fully loaded, when 40% supported the Prep max. is 2,00 kN/m² (200 kg/m²).

TECHNICAL SPECIFICATIONS OF MAX 4 FS10 & FS20

Profile height	10 & 20 mm
Steel thickness	0,5 mm
Steel quality	DX53D+Z conform EN 10326
Nominal sheet dimensions	1130 x 495 mm
Working length x width	1080 x 480 mm
Weight	5,4 kg/m ²
Construction height of finished floor	15 & 25 mm
Construction thickness combined with FONOFIVE®	21 & 31 mm
Weight of finished floor	32 & 50 kg/m ²
Heat emission of underfloor heating	60 - 90 W/m ² (t _i =20°C)
Fire class of finished floor	A1 / non-flammable in accordance with EN 13501-1 / NEN 6064

Fixing and installation

Detailed fixing and installation instructions are available and on-site installation instruction can be provided by one of our technical advisors. For larger projects we work together with experienced teams that can provide supply and installation.

Service and advice

For extensive guidance and advice please contact our technical sales team.