

MAX 4®

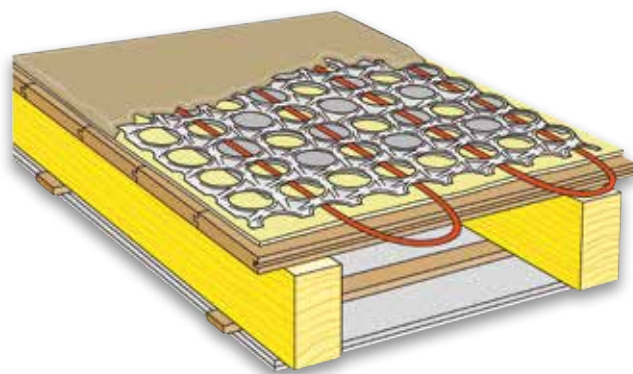
REINFORCING SHEETS

MAX 4® 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.

The product

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.

The MAX 4® reinforcement sheets are easy to install and connect to each other with a half lipped joint (fixing details available). 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.



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

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.

Load-bearing capacity

Load-bearing capacity of MAX 4® reinforcing sheets 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

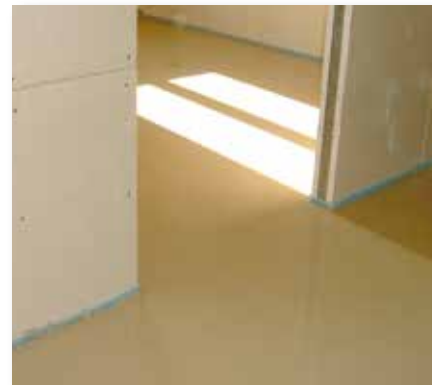
Prep = equal distribution of load in accordance with NEN 6702

Pu = measured average failure load

* if fully loaded, when 40% supported the
Prep max. is 2.00 kN/m² (200 kg/m²).

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 anhydrite or cement based liquid screeds
- Ideal for a wet or electric under floor heating systems
- Rapid heat up and heat spread



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.

Fixing

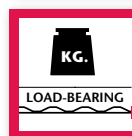
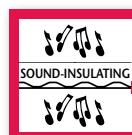
Detailed fixing and installation instructions are available and on-site installation instruction can be provided by one of our technical advisors. For larger projects we have experienced teams that can provide supply and installation prices.

Service and advice

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

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



CDI

Innovative Construction Materials Ltd

ILA Lodge • 15 Alnwick Drive
 • Spennymoor
 • Co Durham • DL16 7GE
 • Telephone : 01388 728833
 • Fax : 01388 728834
 • E-mail : info@CDI-ICM.co.uk
 • website : www.CDI-ICM.co.uk