

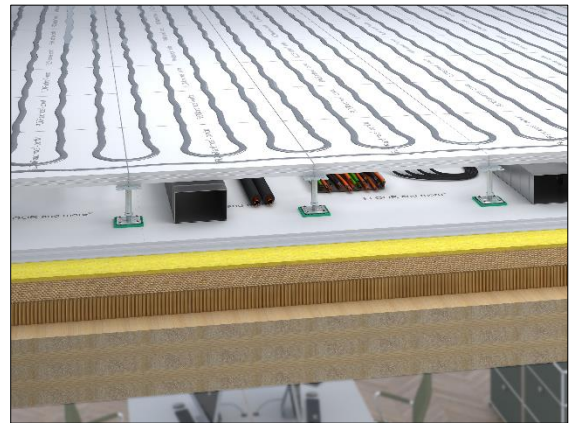


FLOOR and more[®] comfort CLT

Dry hollow floor with underfloor heating on cross laminated timber ceiling

The dry hollow floor system FLOOR and more[®] comfort creates a pleasant environment for the occupier by its intelligent heating and cooling. The hollow floor panels type comfort consist of fibre-reinforced calcium sulphate. Pre-milled grooves for taking up the heating and cooling lines are closed after the installation by a filling compound. The gluing of the FLOOR and more[®] panels is made with a special tongue and grooving at the edges of the panels which are forming a closed load bearing layer. The substructure consists of height-adjustable zinc-coated steel pedestals from our own production which form the necessary cavity for installations. The hollow floor panels FLOOR and more[®] in combination with a dry mineral fill and a decoupling level create the necessary weighting of the solid wood ceiling, which can optimally be used as substrate for the necessary installation.

- quick reaction period with heating and cooling
- heating performance 66 W/m² - 76 W/m²
- cooling performance 33 W/m² - 40 W/m²
- superb walking comfort
- very good building acoustic characteristic values
- high loadability
- non-combustible
- free choice of coverings



Technical details

System weight	approx. 220 kg/m ²
Panel thickness dry hollow floor	40 mm
Standard pedestal height	40 - 500 mm
Pedestal grid	599 mm x 599 mm
Weighting level	approx. 115 mm

HVAC

Tube distance 100 mm

Heating performance	EN 1264-3	76 W/m ²
Cooling performance	EN 1264-5	40 W/m ²
Heating tube		Ø 17 x 2.0 mm

Tube distance 150 mm

Heating performance	EN 1264-3	66 W/m ²
Cooling performance	EN 1264-5	33 W/m ²
Heating tube		Ø 17 x 2.0 mm



Statics

Load class	EN 13213	2
Point load (breaking load)	EN 13213	3 kN (6 kN)

Fire protection

Building material class of the carrier panel

Building material class	EN 13501-1	A1
Designation by the building authorities	EN 13501-1	non-combustible

Fire resistance of the dry hollow floor

Fire resistance	DIN 4102-2	F30
Fire resistance	EN 13501-2	REI30 possible with additional measures

Acoustics

Building acoustics

Normalised flanking level difference depending on additional measures	ISO 717-1	$D_{n,f,w}$	47 - 57 dB
Rated sound reduction index depending on additional measures	ISO 717-1	R_w	64 dB
Normalised impact sound pressure level depending on additional measures	ISO 717-2	$L_{n,w}$	48 - 45 dB
Normalised flanking impact sound pressure level depending on additional measures	ISO 717-2	$L_{n,f,w}$	61 - 43 dB

Sustainability (dry hollow floor)

Circular economy	Cradle to Cradle Certified® possible
Self-declaration	self-declaration in acc. with ISO 14021 possible
Environmental product declaration	verified EPD in acc. with EN 15804 / ISO 14025 possible

Floor coverings

Suitability of covering	elastic coverings, loose-laid tiles, textile coverings, parquet (only 2-layer parquet bonded or floating installed parquet permissible; no solid wood planks)
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