

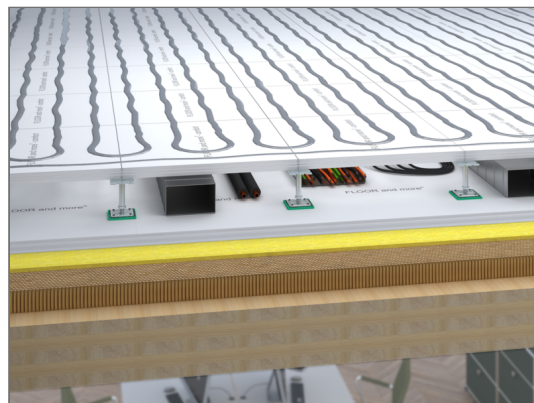


FLOOR and more® comfort CLT

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.

- combination of underfloor heating and acoustic optimisation of solid wood ceilings
- fire protection upgrading of the wooden ceiling possible
- future-proof thanks to maximum flexibility
- almost free choice of floor covering



Examples for areas of application

Public Areas: Entrance Areas, Escape Routes

Work: Common Rooms, Facilities for Meetings, Conventions and Conferences, Stage and Studio Rooms, Office buildings, Assembly Rooms

Film- and Recording Studios

Education: Library, Research Rooms, Schools, Higher education institutions and universities

Businesses, Recreation and Culture: Banks, Museums and Exhibitions, Sports Halls and Gymnasiums, Places of Assembly

Hotels and Gastronomy: Gastronomy, Hotels and Resorts

Public Institutions: Courts and prisons, Government and municipal buildings

Technical details

Dimensions

Panel thickness	40 mm
Standard pedestal height	40 - 500 mm
Pedestal grid	600 mm x 600 mm
Weight	220 kg/m ²

Technical Details

Weighting level	115 mm
-----------------	--------

HVAC

Heating and cooling

Tube distance		100 mm
Heating performance	EN 1264-2	76 W/m ²
Cooling performance	EN 1264-5	40 W/m ²
Heating pipe		Ø 17 x 2,0



Tube distance		150 mm
Heating performance	EN 1264-2	66 W/m ²
Cooling performance	EN 1264-5	33 W/m ²
Heating pipe		Ø 17 x 2,0

Static

Statics

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

Fire protection

Building material class

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

Fire resistance

Fire resistance	DIN 4102-2	F 30
Fire resistance	EN 13501-2	REI 30 possible with additional measures

Acoustics

Building acoustics

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

Sustainability

Declarations

Circular Economy	Cradle to Cradle upon request
Product Self-Declaration	Self-declaration according to ISO 14021 upon request



EPD (Environmental Product Declaration)

EPD according to EN 15804 / ISO 14025 upon request

Evidence

Green Level Certificate

High 

Circularity: Some of the components can be reused/refurbished

Life Cycle Assessment: Life Cycle Assessment according to DIN 14067 (Product Carbon Footprint) on request

Cradle to Cradle Certified®: no C2C Certified® label available

Coverings

Coverings

Suitability of covering

elastic coverings, loose-laid tiles, Parquet (only glued or loose-laid 2-layer parquet possible; no solid wood planks), textile coverings, (assuming general suitability for underfloor heating)