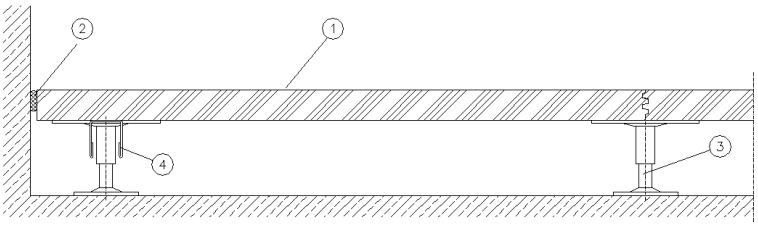
Product data sheet	System Combi T – 30 GFV – 4	

System sketch:



1 Panel
600 x 600 mm tooth milling

2 Perimeter foam tape

3 Pedestal
(construction depending on floor height optionally glued with subfloor or supporting panel)

4 Reinforcement

System:

Panel:	Fibre-reinforced calcium sulfate panel 30 mm
Dimensions:	600 x 600 mm
System weight:	~ 48 kg/m²

Substructure:

Pedestal grid:	600 x 600 mm
Reinforcement perimeter area:	Stringers or additional pedestals
Pedestal material:	Galvanized steel
Pedestal height:	85-1000 mm

Floor coverings: * Textile and elastic floor coverings, parquet

Load values:

Concentrated load:	4.000 N
Acc. to DIN EN 13213:	Class 3
Ultimate load:	> 8.000 N
Certificate of conformity:	--

Fire protection:

Building material class of panel	
Acc. to EN 13501 T1:	A1
Acc. to DIN 4102 T1:	A2
Fire resistance class (DIN 4102 T2):	F30 AB (tested – ffh 1150 mm)

Sound insulation: (DIN 52210; DIN EN ISO 140)**

	horizontal		vertical			
	Standard flank level difference $D_{n,f,w,P}$ in [dB]	Standard flank impact sound level $L_{n,f,w,P}$ in [dB]	Improvement of sound and pressure level reduction $L_{w,P}$ in [dB] without pads	With neddle felt	With pads	Impact sound reduction $R_{w,P}$ in [dB]
Textile covering	47	42	32	--	34	--
Hard covering	45	80	17	--	18	64
Textile covering with separating cut	--	--	--	--	--	--
Hard covering with separating cut	55	66	--	--	--	--

* The MERO hollow floor meets the requirements of DIN EN 13213. The allowed deflections must be considered during the planning stage of the other trades.

** Values acc. to Combi T-28

MERO-TSK International GmbH & Co. KG
Max-Mengeringhausen Str. 5
97084 Würzburg

Structural-physical material data:

Volume weight	≥ 1500 kg/m³
Surface Brinell hardness	≥ 40 N/mm²
Tensile bond strength	≥ 1,0 N/mm²
Value of the thermal conductivity λ_R	0,44 W/(mK)
Base value of the floor heating is λ_{10}	0,30 W/(mK)
Water vapor diffusion resistance rate µ	30 / 50
Specific thermal capacity c	> 1000 J/(kgK)
Coefficient of thermal expansion α	$12{,}9*10^{-6}$ 1/K
Elongation at temperature change	≤ 0,02 mm/(mK)
Elongation at change of relative humidity at 20°C by 30%	0,6 mm/m
Hygrothermal assembly conditions (on site)	min. +13°C approx. 40-65% r. h.
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Surface treatment and floor coverings

Cut floor covering always according to the expansion and connection joints of the Combi T.

MERO Combi T floors guarantee wheelchair resistance without additional procedures. Use primer „Knauf Estrichgrund F431“ or primer of the used adhesive.

Textile floor coverings (depending on carpet type) can be laid without puttying the whole area. If necessary, joints can be filled with e.g. Knauf Uniflott.
For elastic thin floor coverings (such as pvc, linoleum, rubber) an area-wide putty of at least 2 mm thickness is necessary with e.g. “Knauf Nivellierspachtel 415”. After application of the putty area must be primed. Primers, putties and adhesives must fit together with the subsurface and the floor covering.

Ceramic tiles and natural stone coverings can only be applied on appropriate floor systems. Please follow the processing instructions of the adhesive producer especially regarding covering size and minimum thickness of the adhesive layer. Use preferably flexible adhesives.

Adhesive related fleeces or cloths are allowed to be used. If the admissible deflection is higher than expected due to the applied loads on the MERO Combi T floor, additional measures must be considered, such as the use of thicker elements or the installation of additional pedestals in order to avoid the deformation of the floor covering.

For floating parquet or parquet thicker than ≤ 2/3 of the finished floor height (ffh) thickness, follow the processing instructions of the parquet and adhesive producer.

Liquid coatings (e.g. epoxy resin coatings) must be elasticized. The tensile strength between floor covering / adhesive or between the coating of the MERO Combi T should be tested before starting (make test run if necessary). Consider the structural-physical conditions before choosing the coating system.

Primers, putties and adhesives must fit together with the system related fleeces and cloths.

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