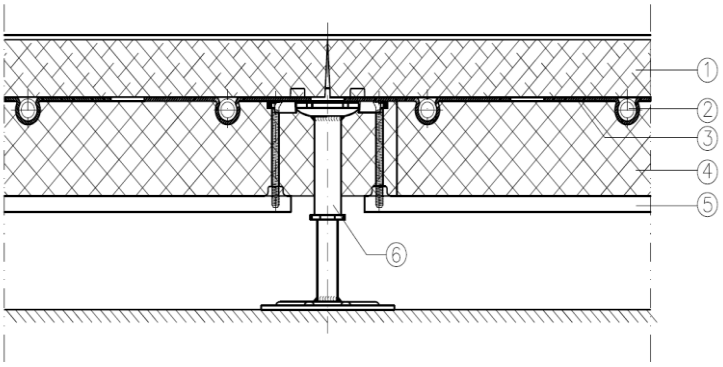
Product data sheet	Type 6 N36 Thermo	

System sketch:

DIN Geprüft 7F313-F



1 Access floor panel (with/ without covering or with primer for application on jobsite)

2 Heating pipe 14x2

3 Heat conduction sheet

4 Thermal insulation box

5 Metal support for thermal insulation box

6 Access floor pedestal
(type of construction depending on floor height)

Panel:

Dimensions:	600 x 600 mm (special dimensions possible)
Panel thickness:	~ 36 mm
Surface:	--
Rrear side:	Aluminium coating on request
System weight::	~ 64 kg/m² (without covering, floor height 250 mm)
Panel weight:	~ 20,1 kg/pc
Panel material:	Fiber reinforced calcium sulfate panel

System:

Panel:	EPS 600x600x60 mm
Thermal conductive sheet:	Aluminium
Heating tube:	Protec PE-RT 14x2 mm, made of cross-linked Polyethylene according to DIN 4726. For use as surface heating and cooling pipe.
Installation grid:	150 mm

Substructure

Module:	600 x 600 mm
Pedestal material:	Galvanized steel
Construction height: (without covering)	~ 150 - 1800 mm FFH
Stringer:	--

Load values:

Point load / deflection class:	3.000 N / A
Load class acc. to DIN EN 12825:	Class 2
Ultimate load:	≥ 6.000 N
Safety factor:	≥ 2,0

Electrostatic: (DIN EN 1081 / DIN IEC 61340-4-1)

Depending on floor covering: R_2 or. $R_G > 10^5$ Ohm

Fire protection:

Building material class panel Acc. to DIN EN 13501 T1:	A1
Fire resistance class (DIN 4102 T2):	F30 possible up to FFH 1230 mm
Fire resistance class (DIN EN 1366-6):	REI30 possible (tested – FFH 1200 mm)

Thermal coefficient: (base material) ~ 0,44 W/mk

Sound insulation values:

New designation acc. to DIN EN ISO 140

• Sound reduction value	$R_{L,w,P}$	51 - 54 dB	$D_{n,f,w,P}$	Normalized flanking sound pressure level
• Standard foot fall sound	$L_{n,w,P}$	66 - 38 dB	$L_{n,f,w,P}$	Normalized flanking impact sound pressure level
• Impact sound reduction	$\Delta L_{w,P}$	14 - 34 dB	$\Delta L_{w,P}$	Reduction of impact sound pressure level

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Performance chart heating and cooling

Heating

Installation grid
150 mm

Heating flow density q_G acc. to DIN EN 1264-2 (without covering R_λ=0,00 m²K/W)	91,7	W/m²
At standard heating agent overtemperature $\Delta\theta_H$	25,3	K
Heating flow density q_G acc. to DIN EN 1264-2 (with covering, R_λ=0,15 m²K/W)	93,2	W/m²
At standard heating agent overtemperature $\Delta\theta_H$	42,1	K
$R_{\lambda,B}$ carpet	0,07 – 0,23	m²K/W
$R_{\lambda,B}$ ceramic tile/stone	0,02	m²K/W
$R_{\lambda,B}$ PVC	0,01	m²K/W

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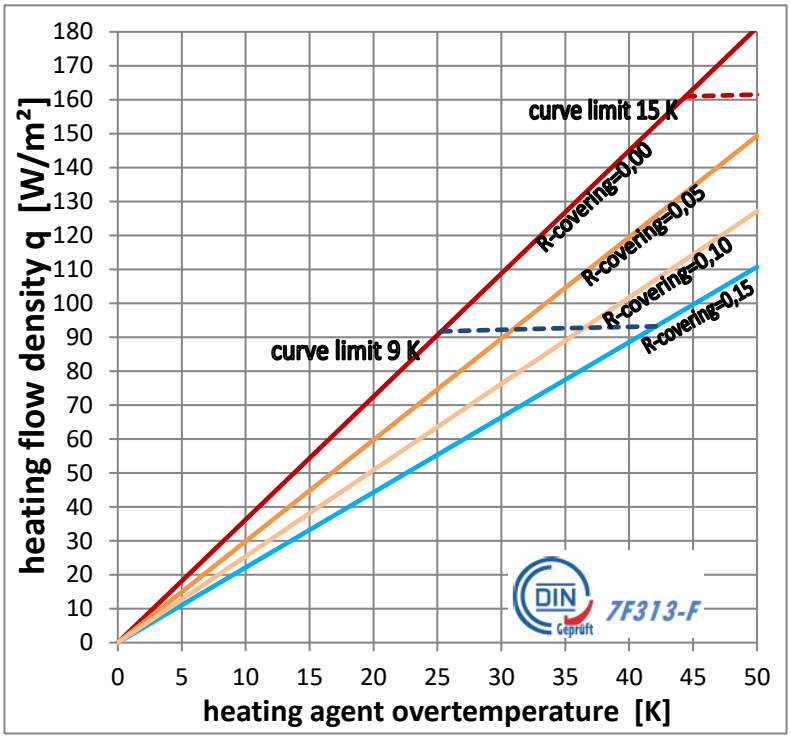
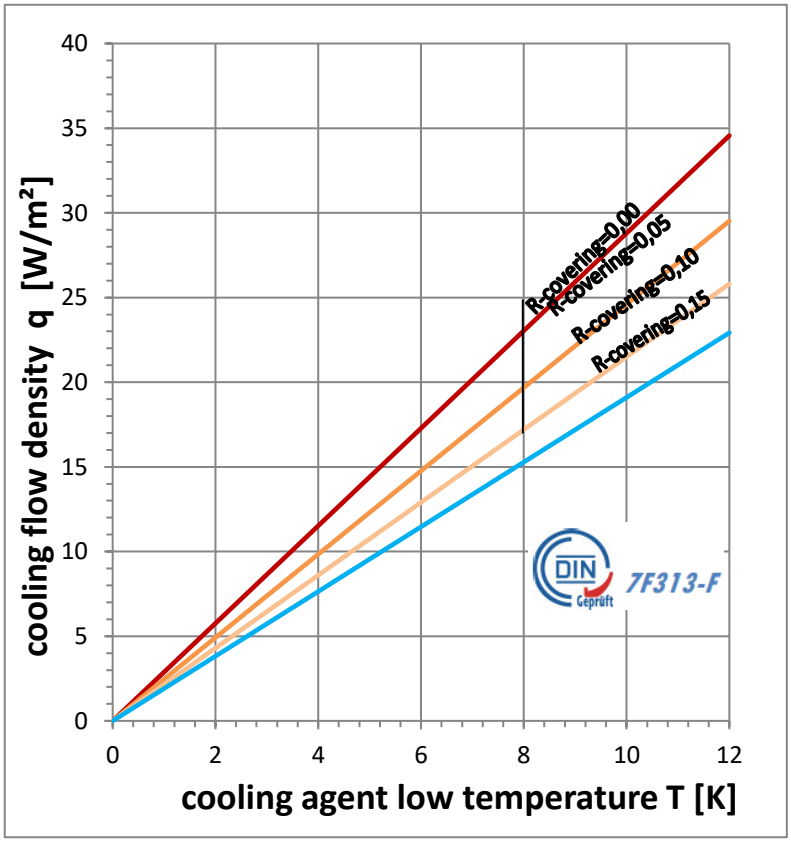


Cooling

Installation grid
150 mm

Specific cooling capacity q acc. to DIN EN 1264-5	23,0	W/m²
Cooling agent low temperature $\Delta\theta_K$	8	K

DIN Geprüft 7F313-F



All type 6 Thermo systems are designed to operate dew point free. The coldest point of the system temperature must be at least 3°C over the definite dew point temperature.

The heating and cooling capacity of the system has been determined with the floor panel type 6 N36. If other panels are used deviations are to be expected.