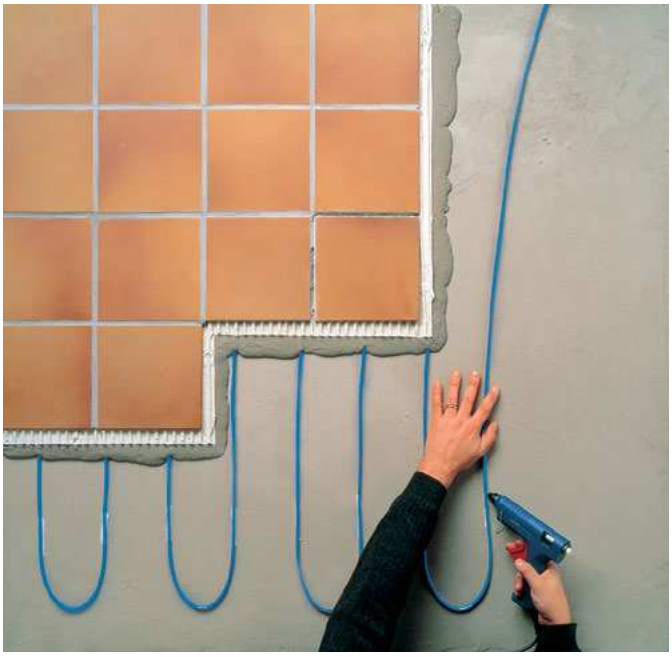
T2Blue - 20 W/m

COMFORT YOU DESERVE



DESCRIPTION

nVent RAYCHEM T2Blue 20 W/m is a floor heating cable with constant power output of 20 W/m. It is a pre-terminated, dual conductor heater with a 2.5 m cold lead attached at one end.

The heating cable should be embedded in screed (typically 50 mm).

T2Blue is the ideal floor heating system for installation in newly constructed buildings or renovation. This floor heating cable is typically applied in new construction applications and building extensions for example in conservatories or cold rooms (refrigeration rooms).

The T2Blue range exists in a variant without thermostat and in an EcoDesign compliant variant containing a programmable electronic timer thermostat. The T2Blue comes in a handy installer friendly box containing glue sticks for easy fixing to the subfloor and a conduit in which to install the sensor.

12 Total care warranty

ADVANTAGES

The design phase

Easy design:

- one cold lead connection due to dual wire cable design
- different outputs per m^2 can be obtained by different heating cable spacing (min spacing is 50 mm)
- flexibility to adapt to all room shapes

Compatible with all non combustible and stable subfloors e.g. concrete, anhydrite, plaster, ceramic underfloor.
Following floorings can be applied: Tiles, Marble, Stones with max. 30 mm thickness and min. thermal conductivity of 1,0 W/(mK).

The installation phase

Due to the dual conductor cable, T2Blue has only one cold lead connection which enables easy lay-out and installation.
Easy to adapt to special room shapes or obstacles. Spacing can be varied to a minimum of 50 mm.

The application

Extra low energy consumption when used together with the nVent RAYCHEM smart thermostats.
No measurable electro-magnetic fields due to the dual conductor heating cable.
Long life and maintenance free.

TECHNICAL DATA

Nominal power	20 W/m
Voltage	230 Vac
Max. Exposure Temperature	+90°C
Min. Installation Temperature	+5°C
Length of cold lead cable	2.5 m
Dimensions	Approx 5,5 mm diameter
Min. cable spacing	50 mm
Min. bending radius	30 mm
RCD	30 mA
Construction	PVC-free
Certificates	SEMKO, VDE, CE-mark

RELATED NVENT RAYCHEM PRODUCTS

Product name	Part number	Description
SENZ WIFI	1244-017778	WIFI enabled programmable touchscreen thermostat combing app enabled remote control, ease of use and aesthetic design for maximum comfort from your underfloor heating
NRG-DM	1244-015152	Intuitive electronic thermostat with flexible weekly schedule and 1.8" display. Easy to use and to program
Green Leaf	1244-017312	Attractive electronic thermostat with 4 event weekly schedule
U-ACC-PP-01	6012-8949540	Gluestick 10 Pc/pack
U-ACC-PP-02	6012-8949541	Sensortube ∅ 10mm/2,5 m
U-ACC-PP-05	503052-000	Melting glue sticks 72 pcs/1,40 kg/package
U-ACC-MM-10	476660-000	Metal mesh galvanized 10 m
U-ACC-MM-25	726604-000	Metal mesh galvanized 25 m
U-ACC-FH-CW-SP	1244-008869	Repair kit for T2Blue

DESIGN TABLE

T2Blue 20 W/m products are available in heating cable lengths from 11 m till 115 m.

	Output	Length	Heating cable resistance range	Area (m^2)			
	(W)	(m)	@ 20°C	80 W/m^2	100 W/m^2	125 W/m^2	150 W/m^2
T2Blue-20-11 m	205	11	246.6 - 285.6 Ω	2,6	2,0	1,6	1,4
T2Blue-20-14 m	285	14	176.9 - 204.8 Ω	3,6	2,9	2,3	1,9
T2Blue-20-18 m	355	18	145.4 - 168.3 Ω	4,4	3,6	2,8	2,4
T2Blue-20-21 m	435	21	115.7 - 134.0 Ω	5,4	4,4	3,5	2,9
T2Blue-20-28 m	575	28	87.8 - 101.6 Ω	7,2	5,8	4,6	3,8
T2Blue-20-35 m	720	35	69.8 - 80.9 Ω	9,0	7,2	5,8	4,8
T2Blue-20-43 m	845	43	59.6 - 69.1 Ω	10,6	8,5	6,8	5,6
T2Blue-20-50 m	980	50	51.3 - 59.4 Ω	12,3	9,8	7,8	6,5
T2Blue-20-57 m	1130	57	44.4 - 51.4 Ω	14,1	11,3	9,0	7,5
T2Blue-20-63 m	1270	63	39.5 - 45.7 Ω	15,9	12,7	10,2	8,5
T2Blue-20-71 m	1435	71	35.1 - 40.6 Ω	17,9	14,4	11,5	9,6
T2Blue-20-86 m	1710	86	29.4 - 34.1 Ω	21,4	17,1	13,7	11,4
T2Blue-20-101 m	2015	101	24.9 - 28.9 Ω	25,2	20,2	16,1	13,4
T2Blue-20-115 m	2300	115	21.9 - 25.3 Ω	28,8	23,0	18,4	15,3
Cable spacing (mm) = x = [area (m^2) / length (m)] x 1000				250	200	160	135

UNDERFLOOR PREPARATION AND INSTALLATION INSTRUCTION

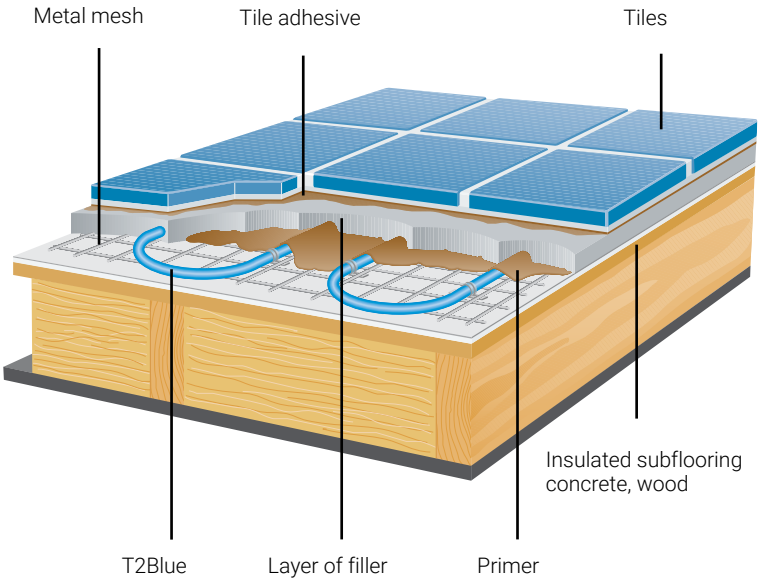
The subfloor should be clean, stable and rigid, without cracks or adhesion-reducing substances. Cracks are to be filled.

Ensure subfloor is level. When using cement plaster and anhydrite plaster, ensure that the floor has dried sufficiently according to the applicable norms. Anhydrite plaster should be smoothened and dust free. With quickly solidifying plaster, please follow the manufacturers instructions.

The heating cable should not be installed under bath tubs, shower cabins, surface covering furniture, etc.

The heating cable should not be installed where holes will be drilled in the floor.

T2Blue heating cable needs to be installed in a screed (typically 50 mm). It should not be installed directly in the tile adhesive. The heating cable should not be embedded in EPS cement screed.



Applicable norms, rules and data sheets as well as instructions and manuals are to be followed!

For detailed installation instructions reference is INST279.

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