



TGMt

thin heating mats

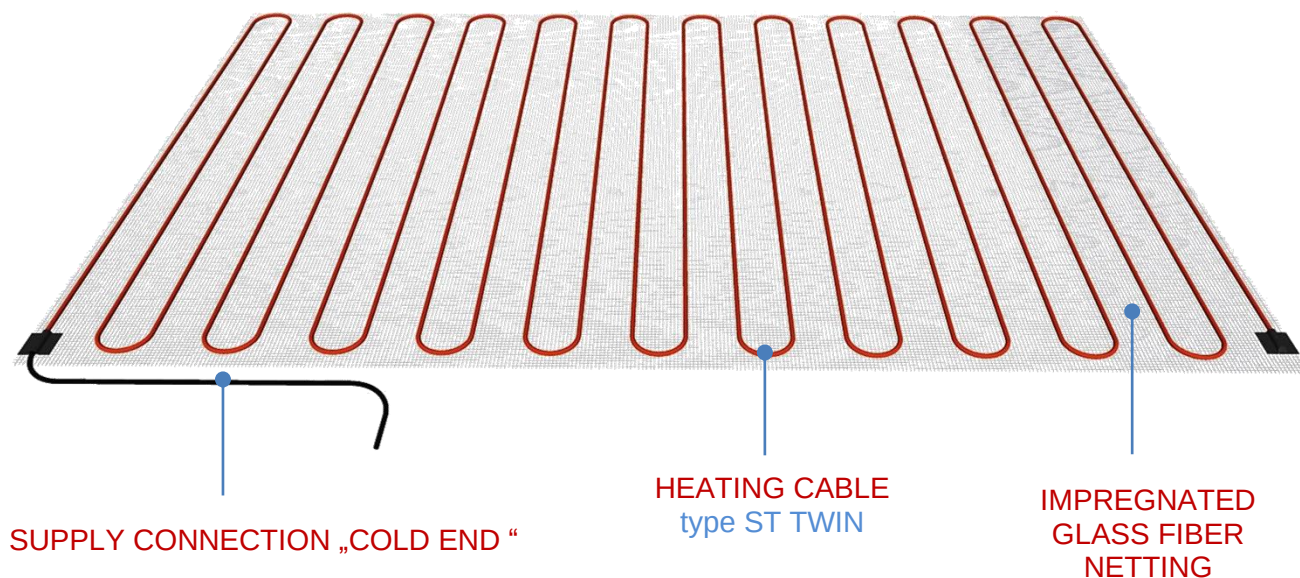
PRODUCTS

Thin heating mats are pre dimensioned, ready for installation electric heating mats with the **thickness of 3,1-3,5 mm**. The mats are designed to be embedded into flexible construction glue, self-leveling mortar or into thin cement slab.

The mats are used for fast and simple implementation of direct underfloor or wall heating systems with the range of temperature from 23°C to 37°C. They provide best results when temperature is controlled by an electronic thermostat with the temperature sensor embedded into the floor or wall.

The mats are made by stitching ST TWIN type of heating cables onto impregnated glass fiber netting (raster approx. 4,5 x 4,5 mm). The heating cables have two wires and a tinned copper protective screen (PE). The TGMt are especially practical because of their single side power supply connection, meaning that the mats have only one connection cable (2 x 1 mm² + PE). The connection cable size is 6,3 x 4 mm, oval shaped.

STANDARD UNIT POWER 90 W/m², 120 W/m² and 160 W/m²
OTHER UNIT POWERS AVAILABE ON DEMAND



Area of application

- direct underfloor heating by installing TGMt mat into construction glue under ceramic or stone tiles
- direct underfloor heating by installing TGMt mat into thin cement slab under stone or ceramic tiles, wooden floors, laminate floors, textile or plastic floor finishes
- heating of walls covered with stone or ceramic tiles, or with different types of plaster
- combined (direct and/or thermal accumulation) underfloor heating systems

Thin heating mats with 90 W/m ² unit power powered with 230 V			
DESIGNATOR	DIMENSIONS [cm]	AREA [m ²]	POWER [W]
TGMt 03-0,8-90	33 x 245	0,81	73
TGMt 03-1-90	33 x 330	1,09	90
TGMt 03-1,3-90	33 x 380	1,25	114
TGMt 03-1,7-90	33 x 500	1,65	149
TGMt 03-1,8-90	33 x 555	1,80	167
TGMt 03-2,1-90	33 x 650	2,15	194
TGMt 03-2,6-90	33 x 785	2,60	233
TGMt 05-0,9-90	50 x 170	0,85	77
TGMt 05-1,1-90	50 x 220	1,10	98
TGMt 05-1,3-90	50 x 255	1,28	115
TGMt 05-1,6-90	50 x 325	1,63	146
TGMt 05-1,8-90	50 x 360	1,80	164
TGMt 05-2,2-90	50 x 430	2,15	194
TGMt 05-2,7-90	50 x 535	2,68	241
TGMt 05-3,3-90	50 x 660	3,30	297
TGMt 05-3,9-90	50 x 785	3,93	354
TGMt 05-4,8-90	50 x 920	4,75	428
TGMt 05-5,4-90	50 x 1070	5,40	482
TGMt 1-2,2-90	100 x 215	2,15	193
TGMt 1-2,7-90	100 x 265	2,65	239
TGMt 1-3,3-90	100 x 330	3,30	297
TGMt 1-4,0-90	100 x 400	4,00	361
TGMt 1-4,8-90	100 x 475	4,75	428
TGMt 1-5,4-90	100 x 535	5,40	482
TGMt 1-6,4-90	100 x 640	6,40	576
TGMt 1-7,7-90	100 x 770	7,70	689
TGMt 1-9,0-90	100 x 900	9,00	810
TGMt 1-9,9-90	100 x 990	9,90	892
TGMt 1-11,1-90	100 x 1110	11,1	1000

Thin heating mats with 160 W/m ² unit power powered with 230 V			
DESIGNATOR	DIMENSIONS [cm]	AREA [m ²]	POWER [W]
TGMt 03-0,6-160	33 x 170	0,56	90
TGMt 03-0,9-160	33 x 270	0,89	144
TGMt 03-1,2-160	33 x 365	1,20	195
TGMt 03-1,4-160	33 x 430	1,42	228
TGMt 03-1,7-160	33 x 530	1,75	279
TGMt 03-2,2-160	33 x 665	2,20	352
TGMt 03-2,6-160	33 x 800	2,64	421
TGMt 05-0,6-160	50 x 110	0,55	88
TGMt 05-0,9-160	50 x 180	0,90	145
TGMt 05-1,2-160	50 x 240	1,20	192
TGMt 05-1,5-160	50 x 290	1,45	232
TGMt 05-1,8-160	50 x 350	1,75	282
TGMt 05-2,2-160	50 x 435	2,20	349
TGMt 05-2,6-160	50 x 520	2,60	417
TGMt 05-3,1-160	50 x 625	3,13	500
TGMt 05-3,5-160	50 x 700	3,50	560
TGMt 05-4,2-160	50 x 830	4,15	665
TGMt 05-5,0-160	50 x 990	5,00	796
TGMt 05-5,9-160	50 x 1180	5,90	943
TGMt 05-6,5-160	50 x 1290	6,45	1033
TGMt 05-7,3-160	50 x 1460	7,30	1169
TGMt 05-8,3-160	50 x 1660	8,30	1328
TGMt 1-2,2-160	100 x 220	2,20	353
TGMt 1-2,6-160	100 x 260	2,60	416
TGMt 1-3,1-160	100 x 310	3,10	496
TGMt 1-3,5-160	100 x 350	3,50	560
TGMt 1-4,2-160	100 x 420	4,20	672
TGMt 1-5,0-160	100 x 500	5,00	799
TGMt 1-6,0-160	100 x 595	6,00	952
TGMt 1-6,6-160	100 x 655	6,60	1046
TGMt 1-7,5-160	100 x 750	7,50	1176
TGMt 1-8,2-160	100 x 820	8,20	1311
TGMt 1-9,6-160	100 x 960	9,60	1540
TGMt 1-10,8-160	100 x 1080	10,8	1735

Thin heating mats with 120 W/m ² unit power powered with 230 V			
DESIGNATOR	DIMENSIONS [cm]	AREA [m ²]	POWER [W]
TGMt 03-0,6-120	33 x 190	0,63	75
TGMt 03,0,8-120	33 x 250	0,83	99
TGMt 03-1,0-120	33 x 300	0,99	119
TGMt 03-1,3-120	33 x 380	1,25	151
TGMt 03-1,4-120	33 x 430	1,40	170
TGMt 03-1,6-120	33 x 495	1,63	197
TGMt 03-2,0-120	33 x 610	2,01	241
TGMt 03-2,6-120	33 x 775	2,60	308
TGMt 05-0,6-120	50 x 125	0,63	75
TGMt 05-0,8-120	50 x 160	0,80	97
TGMt 05-1,0-120	50 x 200	1,00	120
TGMt 05-1,3-120	50 x 250	1,25	150
TGMt 05-1,4-120	50 x 280	1,40	168
TGMt 05-1,7-120	50 x 335	1,68	201
TGMt 05-2,0-120	50 x 410	2,05	245
TGMt 05-2,6-120	50 x 515	2,60	309
TGMt 05-3,0-120	50 x 600	3,00	360
TGMt 05-3,6-120	50 x 710	3,55	428
TGMt 05-4,0-120	50 x 800	4,00	481
TGMt 05-4,7-120	50 x 940	4,70	565
TGMt 05-5,6-120	50 x 1120	5,60	676
TGMt 05-6,7-120	50 x 1330	6,65	800
TGMt 05-7,4-120	50 x 1470	7,35	880
TGMt 05-8,3-120	50 x 1660	8,30	997
TGMt 1-2,6-120	100 x 255	2,60	307
TGMt 1-3,1-120	100 x 310	3,10	371
TGMt 1-3,6-120	100 x 360	3,60	432
TGMt 1-4,0-120	100 x 400	4,00	480
TGMt 1-4,8-120	100 x 480	4,80	577
TGMt 1-5,8-120	100 x 575	5,80	689
TGMt 1-6,9-120	100 x 685	6,90	822
TGMt 1-7,5-120	100 x 750	7,50	905
TGMt 1-8,5-120	100 x 850	8,50	1023
TGMt 1-9,5-120	100 x 950	9,50	1139
TGMt 1-11,2-120	100 x 1120	11,20	1344
TGMt 1-12,5-120	100 x 1250	12,50	1499

Technical characteristics

- supply voltage: 230 V~
- unit powers: 90 W/m²
120 W/m²
160 W/m²
- insulation test voltage: 1460 V
- insulation resistance: >1000 MΩ
- heating resistance tolerance: -5 %/+10%

MAT POWER CORRECTION FACTOR IN DEPENDANCE OF SUPPLY VOLTAGE

210 V	0,83
220 V	0,91
230 V	1,00
240 V	1,09
250 V	1,18

Standard power connection „cold end“ length is 4 m

