

Datasheet

Devimat Warm Floor System

Features



Electric floor heating is increasing in popularity, particularly in applications involving tiled flooring in kitchens and bathrooms. The devimat® system comprises a thin twin conductor electric heating cable attached to an open weave mat. It is installed directly onto the floor surface in the adhesive layer used to fix the tiles to the floor. The mat can also be covered with a self levelling floor screed to which a wood laminate floor can be laid in the normal way. In both cases, the adhesive and/or the floor screed must be of the flexible type in order to allow for the expansion and contraction of the floor as heat is applied.

Unlike many systems that require the installer to lay and fix a pattern of loose cable over the area to be heated, the devimat® system simply requires the installer to attach the mat to the floor substrate using the self-adhesive backing of the mat. This is quick and easy to install and ensures that the correct cable spacing is maintained across the area to be heated. This last point is important as it ensures an even temperature across the whole floor.

The mat is available in two different types, one with an output of 100W/m² for use with wooden floors and another with an output of 150W/m² for use with concrete floors. Mat selection is made by establishing the area of floor to be heated and the floor type onto which the mat is to be fitted. A mat is then chosen from the table overleaf.

Regardless of mat area, all mats are 500mm wide. To install, the mat is laid along the room and the mat mesh (not the red cable) is cut and the mat is turned back on itself, snaking backwards and forwards across the room until the floor area is covered. Connection to the mains is made via a single twin conductor cold tail which is wired back to the thermostat position.

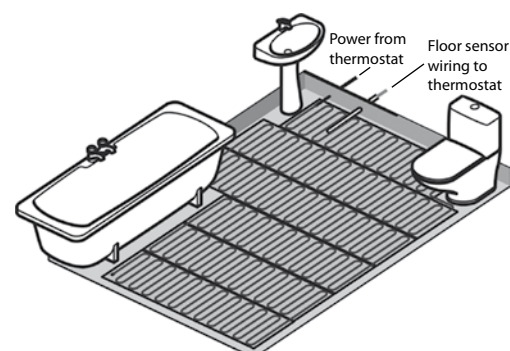
Thermostatic control is provided by a devireg550® intelligent thermostat which is supplied with a remote sensor that is installed into the heated floor. In this application the thermostat controls floor temperature as opposed to room temperature. If the application is within a bathroom, the thermostat unit must be located outside of the bathroom area in accordance with local wiring regulations.

- Ideal for both new and renovation situations
- Easy and quick to install
- Can be accommodated within height of normal thickness tile adhesive
- Can be used with tiles and wood laminate floors

Application

The devimat® warm floor system is particularly suited to bathrooms, kitchens and conservatories where warm floor surfaces are desirable.

When used in bathrooms the thermostat must be placed outside the bathroom and only the floor sensor must be used.



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Ordering Details

Product type	DTIF-100 (100 W/m ²)		DTIF-150 (150 W/m ²)	
	Code No.	EAN No.	Code No.	EAN No.
Devimat [®] 0.5x2 m (1.0 m ²)	83030101	5703466119389	83030121	5703466119532
Devimat [®] 0.5x3 m (1.5 m ²)	83030102	5703466119396	83030122	5703466119549
Devimat [®] 0.5x4 m (2.0 m ²)	83030103	5703466119402	83030123	5703466119556
Devimat [®] 0.5x5 m (2.5 m ²)	83030104	5703466119419	83030124	5703466119563
Devimat [®] 0.5x6 m (3.0 m ²)	83030105	5703466119426	83030125	5703466119570
Devimat [®] 0.5x7 m (3.5 m ²)	83030106	5703466119433	83030126	5703466119587
Devimat [®] 0.5x8 m (4.0 m ²)	83030107	5703466119440	83030127	5703466119594
Devimat [®] 0.5x10 m (5.0 m ²)	83030108	5703466119457	83030128	5703466119600
Devimat [®] 0.5x12 m (6.0 m ²)	83030109	5703466119464	83030129	5703466119617
Devimat [®] 0.5x14 m (7.0 m ²)	83030110	5703466119471	83030130	5703466119624
Devimat [®] 0.5x16 m (8.0 m ²)	83030111	5703466119488	83030131	5703466119631
Devimat [®] 0.5x18 m (9.0 m ²)	83030112	5703466119495	83030132	5703466119648
Devimat [®] 0.5x20 m (10.0 m ²)	83030113	5703466119501	83030133	5703466119655
Devimat [®] 0.5x24 m (12.0 m ²)	83030114	5703466119518	83030134	5703466119662

Thermostat & Cable Monitor		
Product	Code No.	EAN No.
Devireg [®] 550 room thermostat	19150028	5703465029962
Deviguard [®] cable monitor	30953095	5013567412228

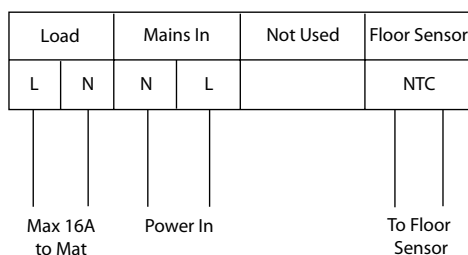
Specifications

	Devireg [®] 550	Devimat [®]
Temperature range	+5°C to +35°C or OFF*	Cable
Floor temperature limit	+20°C to +50°C	DSVF twin conductor with screen
Voltage	180 Vac to 250 Vac 50/60 Hz	Voltage
Battery back-up	100 hours	230 Vac
Type of sensor	NTC 15 kOhm/25°C	Effect
IP class	IP30	100 W/m ² or 150 W/m ²
		Conductor insulation
		Teflon FEP
		Sheath insulation
		PVDF/PVC 90°C
		Maximum temperature
		90°C

*Note: When used with devimat, thermostat must be set up to control floor temperature only.

Wiring

Devireg[®] 550



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