

# T2REFLECTA WITH T2RED

nVent

RAYCHEM



## DESCRIPTION

nVent RAYCHEM T2Reflecta with T2Red floor heating system consists of an insulated aluminium profile T2Reflecta and the self-regulating T2Red heating cable.

The system combines the advantages of the self-regulating heating cable with the features of the T2Reflecta-plate resulting in a 20% extra energy saving compared to a T2Red system.

The surface of the T2Reflecta plate enables even heat distribution across the floor and due to its low profile, it is the ideal system for renovation.



## ADVANTAGES

### The design phase

Ideal for renovation due to the integrated insulation plate and its low installation height

Easy design: one heating cable for all room shapes

Flexible planning and changeable interior design at all times due to the self-regulating heating cable

Compatible with all stable subfloors e.g. concrete, anhydrite, plaster, ceramic subfloor, wooden subfloors

Following floorings can be applied:	Tiles, marble, stones	Max. 30 mm thickness	$\lambda$ -value 1.0 W/mK
	Parquet	Max. 16 mm thickness	$\lambda$ -value 0.14 W/mK
	Carpet	Max. 10 mm thickness	$\lambda$ -value 0.09 W/mK

### The installation phase

Fast and simple installation of T2Red-cable by pushing the heater in the slots of the aluminium T2Reflecta-plate

Heating cable is cut to length and therefore flexible to adapt to the room shape

Heating cable can be spliced and crossed without risk of overheating

No cold lead needed, easy connection

## The application

20% extra energy saving by T2Reflecta-plates with integrated insulation

Even and adaptive heat distribution in floor

Fast direct heating or floor temperature leveling in private rooms

Flexible interior design. Due to the self regulating effect, there is no risk on overheating under carpets, furniture, etc.

Automatic self-regulating output depending on environment (more output in cold zones e.g. door, less output in warm zone e.g. sunlight in green house)

No measurable electro-magnetic fields due to the heating cable

Long life and maintenance free

## TECHNICAL DATA

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Materials	Alu (0,5 mm thickness) & EPS (12,5 mm)
Plate dimensions	720 mm x 400 mm x 13 mm
End plate dimensions	100 mm x 400 mm x 12,5 mm (no alu)
Fire classification	DIN 4102-B1
U-value	2,33 W/m <sup>2</sup> K
Heat transfer coefficient	0,033 W/(mK)
Thermal expansion coefficient	2,4 x 10 <sup>-5</sup> 1/K
Long term pressure capability	140 kPa (14000 kg/m <sup>2</sup> )
For information on T2Red heating cable refer to CDE-0741.	

## PACKAGING AND REFERENCE NUMBER

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T2Reflecta-pack: (3,12 m <sup>2</sup> )	10 profile plates and 6 end plates per pack Reference number: 450052-000
T2Reflecta-pack: (0,94 m <sup>2</sup> )	3 profile plates and 2 end plates per pack Reference number: 6012-8946251
T2Reflecta-end plates-pack:	6 end plates per pack Reference number: 241662-000

## RELATED NVENT RAYCHEM PRODUCTS

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T2Reflecta Adhesive: adhesive for gluing T2Reflecta-plates to subfloor and for gluing tiles on T2Reflecta-plates (refer to CDE-0743) - T2Reflecta A-Fix can be used for gluing the Reflecta plates on the sub floor in combination with Reflecta P-Fix to prime the Aluminum sheet for using of each flexible tiles adhesive

## SUBFLOOR PREPARATION

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The subfloor should be clean, stable and rigid, without cracks or adhesion-reducing substances. Large cracks in the subfloor should be filled prior to laying the mat.

Uneven surfaces will need to be levelled prior to installation. With cement plaster and anhydrite plaster, one should ensure that the substance has dried sufficiently according to the applicable norms. Anhydrite plaster should be smoothed and dust free. With quickly solidifying plaster, one should follow the suppliers 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.

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

## INSTALLATION

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The T2Reflecta panels should be offset to prevent lateral movement in the subfloor, using T2Reflecta Adhesive for fixation to the subfloor. The end plates are be used between the wall and the open ends of the profile plates. When the adhesive is solidified, one can put the T2Red heating cable into the slots of the profiles and be connected according to the installation instructions. The sensor cable is to be put in a conduct and the sensor should be put in the middle between two heating cables.

Subsequently, the floor covering can be put in place. When tiles are used as floor covering, the use of T2Reflecta Adhesive, as tile fix, is mandatory.

Parquet, wood and laminate coverings can be put in a floating way as prescribed by the manufacturer. Covering by carpet or PVC is possible if a renovation sheet is applied between the profiles and the carpet or PVC.

For detailed installation instructions refer to INST-214.

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