

DESCRIPTION



Raychem Reflecta with T2Red floor heating system consists of an insulated aluminium profile Reflecta and the self-regulating T2Red heating cable.

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

The surface of the Reflecta 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	λ -value 1.0 W/mK
Parquet	Max. 16 mm thickness	λ -value 0.14 W/mK
Carpet	Max. 10 mm thickness	λ -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 Reflecta-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 Reflecta-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

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 ² K
Heat transfer coefficient	0,033 W/(mK)
Thermal expansion coefficient	2,4 x 10 ⁻⁵ 1/K
Long term pressure capability	140 kPa (14000 kg/m ²)

For information on T2Red heating cable, see document EU1689.

PACKAGING AND REFERENCE NUMBER

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

RELATED RAYCHEM PRODUCTS

Reflecta A-Fix can be used for gluing the Reflecta plates on the sub floor.

Reflecta P-Fix is used to prime the Aluminum sheet before using of flexible tiles adhesive according to manufacturers instructions.

SUBFLOOR PREPARATION

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 Reflecta plates.

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.

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

REFLECTA PLATE PREPARATION

The Reflecta plates need to be conditioned to room temperature (+15 °C to +30 °C) for 24 hours before installation.

INSTALLATION

The Reflecta panels should be offset to prevent lateral movement in the subfloor, using Reflecta A-Fix for fixation to the subfloor. The end plates are to 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 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. 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 Reflecta P-Fix primer on the aluminum to prepare the Reflecta plates for the tile adhesive, 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 details on the floor construction in combination with temperature sensitive floor covering, see document EU1378.

For detailed installation instructions, see document INST214.

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