

atc floor types and insulation board

FLOOR TYPES FOR COMFORT HEATING

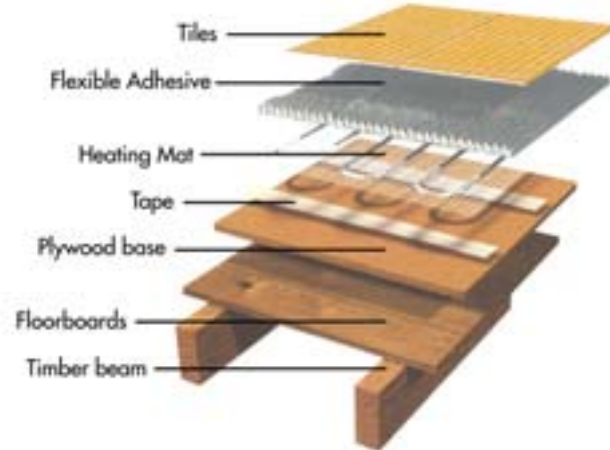
atc table of heating mat sizes

HEATING MATS FOR COMFORT HEATING

TIMBER FLOORS

A suitable tile backer board must be laid over floorboards and chipboard floors before the heating mat is put in place. The heating mat is fixed to the tile backer board and completely covered with a flexible tile adhesive before the tiles are laid.

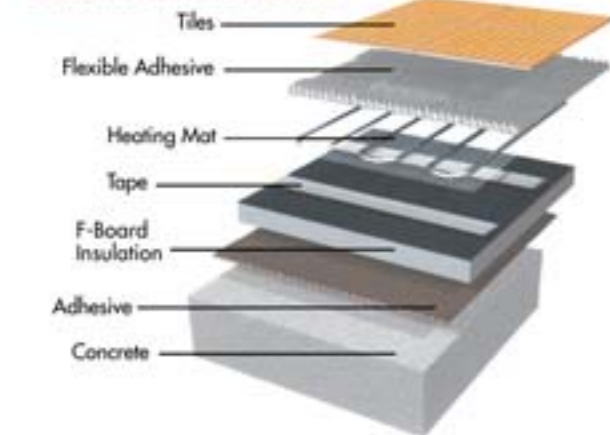
Timber Floor Structure (Suspended)



CONCRETE FLOORS

We suggest that an insulated tile backer board is laid over and fitted on the concrete floor before the heating mat is put in place. This insulated tile backer board greatly reduces the heat-up time of the floor and insulates the floor from downward heat losses.

Concrete Floor Structure



Please note: atc electric underfloor heating mats are not designed to be fitted under wood, carpet, cork, vinyl or laminate floors.

F-BOARD, THERMAL INSULATION BOARDS



We recommend that the F-Board is installed under the Heating Mats where possible.

Advantages of using F-Board

- Can significantly reduce the operating costs of electric under floor heating
- Can greatly accelerate the initial heat-up so that a comfortable floor temperature is reached more quickly after switching on
- F-Boards are made from a thermal-insulation material that can accept all water based (solvent free) flexible floor adhesives and will form a strong bond without the need for further priming.
- It is recommended to use an adhesive reinforcing tape for the spaces between the boards prior to laying the cable mat.
- Can be applied to a wide range of underlying sub floor materials such as concrete, wood-fiber boards, chipboards, plasterboards, cement-fiber boards, anhydrite materials, original tiles, fixed wooden foundation, and others.

CODE	F-BOARD THERMAL INSULATION BOARD	BOX QTY	WEIGHT
F-Board 6	1250mm x 600mm x 6mm	6	1.92kg
F-Board 10	1250mm x 600mm x 10mm	6	2.13kg

TABLE OF HEATING MAT SIZES

CODE	OUTPUT	WIDTH	SURFACE
160W/m ²	W	m	m ²
LDTS 160/ 0,5	80	0.5	0.5
LDTS 160/ 1	160	0.5	1.0
LDTS 160/ 1,5	240	0.5	1.5
LDTS 160/ 2	320	0.5	2.0
LDTS 160/ 2,5	400	0.5	2.5
LDTS 160/ 3	480	0.5	3.0
LDTS 160/ 3,5	560	0.5	3.5
LDTS 160/ 4	640	0.5	4.0
LDTS 160/ 5	800	0.5	5.0
LDTS 160/ 6	960	0.5	6.0
LDTS121210-165	1210	0.5	7.6
LDTS121400-165	1400	0.5	8.8
LDTS121800-165	1740	0.5	11.0
LDTS122150-165	2150	0.5	13.3
LDTS122600-165	2600	0.5	16.25



10 YEAR WARRANTY

CE APPROVED

ATC Underfloor heating approved for use with RAKO ceramic and stone tiles

IEC APPROVED

ASSOCIATED PRODUCTS



Head Office, Showrooms & Trade Counter:
atc House, Broomhill Drive, Tallaght, Dublin 24, Ireland.
Tel: 353 (1) 462 5111 Fax: 353 (1) 452 0887 Email: sales@atc.ie

Regional Office & Showrooms:
Unit 2, Twin Spires Centre, 155 Northumberland Street, Belfast, Northern Ireland
Tel/Fax: 028 903 12323



Ref: ATC0104.3



electric underfloor heating mats

atc Underfloor Heating Mats Ideal for Bathrooms, Kitchens and Conservatories



www.atc.ie

All specifications contained in this brochure are subject to change without notice.
*For full warranty details please contact atc. Please check the specifications are current at the time of ordering or building to incorporate the appliance.
All information is current at the time of publication, August 2008, but may change without notice.
For further information contact us or visit our website on www.atc.ie



"Its like walking on Sunshine"

Comfort

atc electric underfloor heating provides a very comfortable, efficient and economical addition or alternative to standard heating systems. Because it is installed under the floor the walls in the

room are now free and therefore it is much easier to furnish. atc electric underfloor heating is especially suitable for refurbished floors and new floor projects. It adds a fabulous feel of comfort and warmth to bathrooms, kitchens, conservatories or any general living area where ceramic or stone tiles are laid.

Energy Efficient

By using electric underfloor heating in conjunction with the atc thermostats it should be possible to reduce the average room temperature by about 2°C and still retain the same level of comfort. Our thermostats are easy to install, programme and simple to control. They are accurate to 0.4°C and offer the best opportunity in reducing energy costs.

Healthy Option

Electric underfloor heating creates a healthy and comfortable environment. There is no air movement and therefore no travelling dust particles. This greatly benefits those who suffer from asthma.



Maintenance Free

Once the atc electric underfloor heating is installed and tested as per the installation guidelines, the system is maintenance free.

Warranty

The atc electric underfloor heating and thermostats are manufactured to the highest European standards and quality. Once installed correctly the cables and mats have a 10 year warranty but a much longer life expectancy. The thermostats have 2 year warranty and again a much longer life expectancy under normal installation conditions.

Design Facility

We are committed to providing a comprehensive technical support for all under floor heating projects. We are now in a position to offer the most comprehensive design service yet. Simple sketches and dimensions can be converted into a professional drawing plan and quotation. All plans can be electronically sent and received for maximum efficiency e-mail: sales@atc.ie

www.atc.ie

atc THERMOSTATS

Any under floor heating system is only as good as the thermostats that control the system. The atc thermostats ensure that the electrician who is installing the product and the end user who is using the system are catered for. The atc thermostats are easy for the electrician to install and programme and therefore reduces his time of installation. For the end user the thermostats are simple to control and the most reliable on the market.

DIGITAL THERMOSTATS

Installation

The digital range of thermostats are equipped with a built-in microprocessor programmed with preset times to control the heating system, using different temperatures at different times during the day. This saves the electrician a considerable amount of time at installation as he does not have to programme the digital clock. If a programme needs to be changed it is very easy input the alternative times / temperatures. The thermostats provide on / off control up to 3600W, 16A

End User

The atc thermostats are simple to control for the end user. They have a 36 hour memory function if there is a power failure and also have a holiday function during holiday times. Depending on the thermostat selected the temperature can be controlled by the floor sensor or the air sensor or both.

ELECTRONIC THERMOSTATS

The electronic range of thermostats also provide on / off control up to 3600W, 16A. They are accurate to 0.4°C ensuring precise control and a high comfort level of the floor surface or room temperature.

Digital Thermostats

CODE	DESCRIPTION	COLOUR
OCC2-1991-OJA2	DIGITAL CLOCK THERMOSTAT controller by floor sensor	White
OCC2-1991-OJE2	DIGITAL CLOCK THERMOSTAT controller by floor sensor	Antracite
OCD-1999-OJA2	DIGITAL CLOCK THERMOSTAT controlled by built in air sensor and / or floor sensor	White
OCD2-1999-OJE2	DIGITAL CLOCK THERMOSTAT controlled by built in air sensor and / or floor sensor	Antracite

Electronic Thermostats

CODE	DESCRIPTION	COLOUR
OTN-1991H	ELECTRONIC THERMOSTAT controlled by floor sensor	White
OTD-1999H	ELECTRONIC THERMOSTAT controlled by built in air sensor and / or floor sensor	White

2 Year Warranty on Thermostats



OTN/OTD



OCC2 Anthracite / ALU.



OCC/OCD

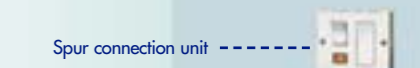


Thermostatic programmer 24h/7day

RCD Spur wire connected to thermostat

Probe wire connected to thermostat

Mat wire connected to thermostat



Spur connection unit

Temperature sensor probe

