



**INSULATION**

# ***PRODUCT LIST***

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# *TECHNICAL DATA SHEET* **TNT INSULATION FOIL** *FOR FLOATING FLOORS*



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# TNT INSULATION FOIL



Insulation suitable for direct installation under floating wood floors, laminates, carpet and rugs.

It increases the efficiency of heating thanks to the action of the reflective aluminum.

Thin: only 6 mm thick. Lightweight and easy to install.

Ideal in combination with the Heat Pak panels.



## TECHNICAL CHARACTERISTICS

ROLLS OF INSULATION FOR FLOATING FLOORS	
MODEL	AREA (m <sup>2</sup> ) / DIMENSION (m)
TNT2.5	2.5 / 1 X 2.5
TNT5.0	5.0 / 1 X 5
TNT10	10 / 1 X 10
PUS25	25 / 1 X 25
TECHNICAL DATA	
THICKNESS	6 mm
WEIGHT	0,85 Kg/m <sup>2</sup>
VALUE R <sub>m</sub> (m <sup>2</sup> .K.W. <sup>-1</sup> )	0.19
SOUND ABATMENT	25dB ΔLw



*TECHNICAL DATA SHEET*  
**PCB INSULATION**  
*FOR INSTALLATION  
UNDER TILES OR  
STICK WOOD*



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## PCB INSULATION

The use of insulation under the electrical floor heating ensures a fast start-up system and a substantial energy savings compared to an equal installation without insulation. You can save more than 50% compared to an installation without insulation.



The insulation boards are very versatile: you can paste them directly on the subfloor, install heating and laying tiles or wood directly.

The boards are water resistant and are easy to install. The special honeycomb finish allows perfect adhesion to the substrate and to the finish top.

- **High Energy Saving**

It reduces start-up time: 30 minutes with insulation and more than 2 hours without insulation.

- **Economic advantage**

The product pays for itself in 2.5 years of operation.

- **Primary heating**

Using the insulation, our system may be the only source of heating in the house.

- **Rugged and durable**

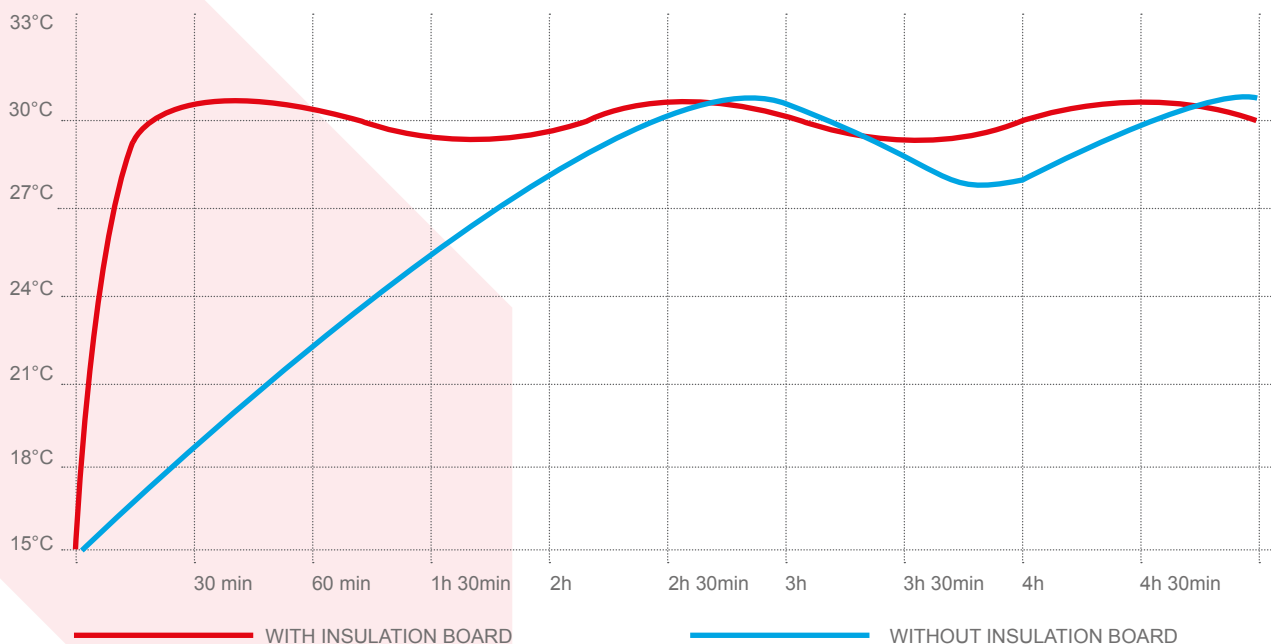
High resistance to compression.

- **Easy installation**

Easy to shape. The product also clings very well to any cementitious substrate or wood finish thanks to the particular cement honeycomb finish.

# TECHNICAL CHARACTERISTICS

RIGID INSULATION FOR INSTALLATION UNDER TILES OR STICK WOOD					
MODEL	THICKNESS (mm)	WIDTH (mm)	LENGHT (mm)	WEIGHT (mm)	U VALUE (mm)
PUB6	6	600	1250	1.90	4.50
PUB10	10	600	1250	2.05	2.70
PUB20	20	600	1250	2.35	1.35
PUB30	30	600	1250	2.65	1.00
TECHNICAL DATA					
THERMAL CONDUCTIVITY			0.033 W/mK		
COMPRESSION STRENGTH			3.0 Kg/cm <sup>2</sup> 300 KN/m <sup>2</sup>		
WATER ABSORPTION (CAPILLARY)			NIL		
FIRE RATED			CLASS 0 / E		
WATER VAPOUR PERMEABILITY (S <sub>d</sub> )			3.2 m		
COEFFICIENT OF THERMAL EXPANSION			30 x 10 <sup>-6</sup> K <sup>-1</sup>		



*TECHNICAL DATA SHEET*  
**PUB INSULATION**  
*FOR FLOATING FLOORS  
OR IN SCREED INSTALLATION*

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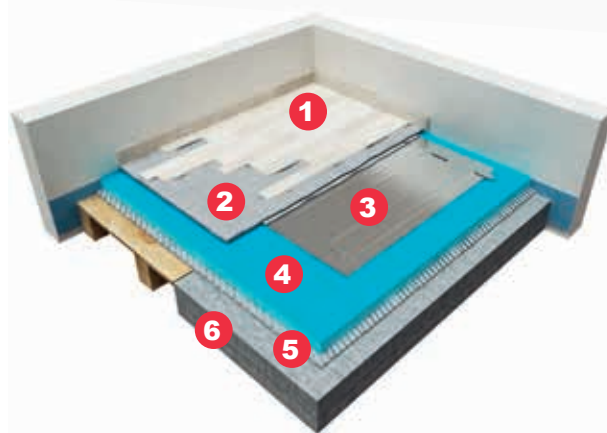
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## PUB INSULATION

Insulation suitable for direct installation under floating wood floors, laminates, carpet and rugs. Due to the high rigidity, the insulation resists the concentrated loads and is capable of supporting the furniture of a normal house. Also ideal for in screed installation.

- 1 Laminate or floating floor
- 2 Underlay (optional)
- 3 Heating
- 4 Insulation board
- 5 Flexible adhesive for insulation board (optional)
- 6 Subfloor (Screed or play wood)



## TECHNICAL CHARACTERISTICS

RIGID INSULATION FOR FLOATING FLOORS	
MODEL	DIMENSION (mm)
PUB10	10 x 600 x 1250
PUB20	20 x 600 x 1250
PUB30	30 x 600 x 1250
TECHNICAL DATA	
THERMAL CONDUCTIVITY	0.033 W/mK
COMPRESSION STRENGTH	3.0 Kg/cm <sup>2</sup>
	300 KN/m <sup>2</sup>
WATER ABSORPTION	NIL
FIRE RATED	CLASS 0 / E
COEFFICIENT OF THERMAL EXPANSION	30 x 10 <sup>-6</sup> K <sup>-1</sup>

# *TECHNICAL DATA SHEET*

## **HEAT PAK**

### *FOR INSTALLATION UNDER CARPET AND VINYL*



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## HEAT PAK

Ideal system for installation under vinyl flooring, carpeting and rugs. Easy to install: no glue or self-leveling required. Protects heating from any possible damage.

It consists of a lower plate and an upper plate, with adhesive between them.

## TECHNICAL CHARACTERISTICS

PANELS FOR INSTALLATION UNDER CARPET RUGS OR VINYL	
MODEL	SIZE (mm)
PHP43	DIMENSION: 600 x 1200 UPPER PLATE: 4 LOWER PLATE: 3
TECHNICAL DATA	
COMPOSITION	MDF - COMPLETE WITH SIKING ADESIVE
VALUE $R_M$ (m <sup>2</sup> .K.W. <sup>-1</sup> )	0.47

# *TECHNICAL DATA SHEET* **WARM DUPLEX FOAM** *FOR FLOATING FLOORS*



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## WARM DUPLEX FOAM

Warmfoam insulation is ideal for the installation of raised floors. With its triple-layer structure, it ensures optimal performance in that each material covers a specific property:

- the 440 g/m<sup>2</sup> TNT base ensures high thermal insulation and adherence with the substrate during installation;
- the sheet of aluminum is an excellent vapor barrier and acts as a reflector of infrared light, directing it towards the active side;
- the polyethylene foam provides the system with mechanical stability and dampens noise to reduce the sound of footsteps.



## TECHNICAL CHARACTERISTICS

ISOLANTE IN ROTOLI PER PAVIMENTI FLOTTANTI	
MODELLO	AREA (m <sup>2</sup> ) / DIMENSIONI (m)
WDF2.5	2.5 / 1 x 2.5
WDF5.0	5.0 / 1 x 5
WDF10	10 / 1 x 10
DATI TECNICI	
THICKNESS	5 / 7 mm
WEIGHT	0,660 Kg/m <sup>2</sup> / 0,735 Kg/m <sup>2</sup>
VALUE R <sub>m</sub> (m <sup>2</sup> .K.W. <sup>-1</sup> )	0.19
DENSITY	30 +/- 3 Kg/m <sup>3</sup>
LONGITUDINAL ULTIMATE TENSILE STRENGTH	> 0,18 N/mm <sup>2</sup>
TRANSVERSE ULTIMATE TENSILE STRENGTH	> 0,16 N/mm <sup>2</sup>
TEMPERATURE IN USE	-40 °C / +95 °C
WATER VAPOR PERMEABILITY	0,12 ng/Pa s m
THERMAL CONDUCTIVITY	λ = 0,0340 Kcal/h m °C



# *TECHNICAL DATA SHEET*

# **WARMFOAM**

## *FOR FLOATING FLOORS*



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## WARMFOAM



WARMFOAM insulation is ideal for the installation of raised floors where space is limited. It acts as a vapor barrier, dampens noise, and acts as a mechanical base for the Warmset Aluminum Foil system.

## TECHNICAL CHARACTERISTICS

ISOLANTE IN ROTOLI PER PAVIMENTI FLOTTANTI	
MODELLO	AREA (m <sup>2</sup> ) / DIMENSIONI (m)
WF2.5	2.5 / 1 x 2.5
WF5.0	5.0 / 1 x 5
WF10	10 / 1 x 10
DATI TECNICI	
THICKNESS	3 / 5 mm
WEIGHT	0,030 Kg/m <sup>2</sup>
VALUE R <sub>m</sub> (m <sup>2</sup> .K.W. <sup>-1</sup> )	0.19
DENSITY	30 +/- 3 Kg/m <sup>3</sup>
LONGITUDINAL ULTIMATE TENSILE STRENGTH	> 0,18 N/mm <sup>2</sup>
TRANSVERSE ULTIMATE TENSILE STRENGTH	> 0,16 N/mm <sup>2</sup>
TEMPERATURE IN USE	-40 °C / +95 °C
WATER VAPOR PERMEABILITY	0,12 ng/Pa s m
THERMAL CONDUCTIVITY	λ = 0,0340 Kcal/h m °C



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