

## N-Thermon® 6mm / 9mm

### Innovative, thin thermal insulation board of extruded polystyrene



#### Description

Innovative, thin thermal insulation board of extruded polystyrene (XPS), available in thickness of 6mm and 9mm. Part of **N-Thermon® System**.

#### Fields of application

- Interior surfaces, such as cold and moist walls, ceilings, basements, closets, as well as behind heating sources and furniture
- Ideal - due to its small thickness - for repairs and renovation in existing buildings, e.g. houses, apartments, cottages, preservable buildings, hotels, public buildings, etc.
- Suitable also for exterior thermal insulation installations (as long as the boards are not exposed directly to solar radiation)



#### Properties - Advantages

- Thermal insulation boards of minimal thickness
- Exceptionally low water absorption, thanks to their density and their closed-cell structure
- Very low thermal conductivity value
- May be cut and easily adjusted in the interior areas without the need of dismantling (e.g. power sockets)
- Do not rot or decompose
- Approved as a product of exceptionally low VOC emissions in interior spaces (Class A+)

#### Certificates – Test reports

- CE certification acc. to EN 15102
- Energy studies conducted by the University of Athens – Physics Dept.
  - Calculation of the energy saving achieved in residencies with the use of **N-Thermon® 6mm** of **NEOTEX®**
  - Calculation of the energy saving achieved in residencies with the use of **N-Thermon® 9mm** of **NEOTEX®**
- Certified as a system (**N-Thermon® 6mm – Deplast®**) in terms of reaction to fire  
System classification **B-s1,d0** acc. to **EN 13501-1** based on the classification report No. 0143\DC\REA\13\_3 and individual test reports acc. to EN 13823 and EN ISO 11925-2 (No. 0143\DC\REA\13\_1 & 2) by the independent accredited laboratory CSI S.p.A.



Certified by:



UNIVERSITY  
OF ATHENS

Technical characteristics		
N-Thermon®	6mm	9mm
Density (EN ISO 845)	33kg/m <sup>3</sup>	35kg/m <sup>3</sup>
Thermal conductivity value ( $\lambda$ ) (EN 12667)	0,0306W/mK	0,0307W/mK
Thermal resistance value (R or 1/ $\Lambda$ )	0,1961 m <sup>2</sup> k/W	0,293 m <sup>2</sup> k/W
Thermal effusivity (b)	2,3 KJ/m <sup>2</sup> h <sup>1/2</sup> K	2,4 KJ/m <sup>2</sup> h <sup>1/2</sup> K
Water absorption (DIN 53434)	<0,1% vol.	<0,1% vol.
Board dimensions	1,25 x 0,80m	1,25 x 0,80m

## Instructions for use

### **Substrate preparation**

The surface must be stable, clean, dry, protected from rising moisture and free of dust, grease, oil and loose materials. Any poorly adhering materials and older coatings should be removed, and the surface should be thoroughly cleaned mechanically or chemically. In case the surface has been infected with mould, it is necessary to initially clean it with a proper mould remover or bleach diluted with water and thoroughly rinse with clean water. Depending on the substrate, appropriate mechanical preparation may be required, to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be sufficiently flat, smooth, and continuous (i.e., without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. by proper puttying). Depending on the condition of the existing substrate and for further stabilization of the surface, appropriate priming is recommended, e.g. by **Revinex**® diluted with water in a ratio **Revinex**®: water - 1:3-4.

### **Application**

**N-Thermon**® Glue is spread evenly on the surface with a notched trowel in a thin uniform thickness. The amount of glue used each time should be sufficient just for the surface of one **N-Thermon**® board.

The thermal insulation **N-Thermon**® board is placed on top of the liquid glue, pressed against the wall with the aid of a pressure roller. The air should come out entirely by pressing to the sides. The boards should be cut in proper dimensions so that they fit the height of the wall. The boards may be adjusted in two ways: either by hitting when placed next to each other, without leaving gaps, or by overlapping, i.e. by double cutting and removing the strips. The joints between the boards may be sanded, if required, by fine sandpaper and they may be puttied using **N-Thermon**® Glue. The glue sufficiently hardens ~24 hours after its application.

## Special notes

- **N-Thermon**® boards may be used in exterior thermal insulation applications, as long as are not exposed directly to solar radiation



<b>Packing</b>	<b>N-Thermon® 6mm:</b> 30 boards (=30m <sup>2</sup> ) in cartons
	<b>N-Thermon® 9mm:</b> 20 boards (=20m <sup>2</sup> ) in cartons
<b>Storage stability</b>	Unlimited, stored in its original packing and indoors, in dry conditions and temperatures between +5°C and +35°C

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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