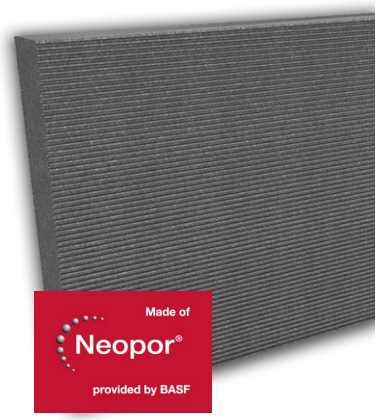
TECHNICAL INFORMATION SHEET

# FONOSTOP EPS G




SINTERED EXPANDED POLYSTYRENE THERMAL INSULATING PANELS, ELASTIC AND SELF-EXTINGUISHING, WITH LOW DYNAMIC STIFFNESS GRAPHITE. SUITABLE FOR THE CREATION OF INSULATION CLADDING AND SPECIFICALLY DESIGNED FOR THE **TERMOK8® FONOSTOP EPS G** SYSTEM. REFLECTS EN 13499 REQUIREMENTS FOR ETICS SYSTEMS. THE FONOSTOP EPS PANEL CONTAINS GRAPHITE PARTICLES WITHIN A CELLULAR MATRIX, THUS ABSORBING AND REFLECTING INFRARED LIGHT, ENSURING GREATER INSULATION CAPACITY FOR A GIVEN THICKNESS. THE FONOSTOP EPS PANEL FEATURES A SPECIAL, 5 MM DEEP GROOVED PATTERN THAT FACILITATES CREATION OF A REINFORCED PLASTER OF ADEQUATE MASS TO ENSURE THE TERMOK8® SYSTEM HIGH SOUND-PROOFING CAPACITY.
PRODUCT TESTED ACCORDING TO UNI EN 13163 FOR USE OF CE MARKING.

AS PER UNI EN 13163.

## DIMENSIONAL AND PERFORMANCE PROPERTIES

SLAB DIMENSIONS: CM 100 X 50
SLAB THICKNESS: FROM 8 TO 12 CM (GREATER THICKNESSES AVAILABLE UPON REQUEST)

Certification of conformity to EN 13172 – Appendix A

| **Characteristics** as per UNI EN 13163 | | **Symbols** | **Unit of measure** | **FONOSTOP EPS G** | **Standard** |
|---|---|---|---|---|---|
| *Requirements for all applications* | | | | | |
| Length | | L2 | mm | ± 2 | EN822 |
| Width | | W2 | mm | ± 2 | EN822 |
| Thickness | | T2 | mm | ± 1 | EN823 |
| Squareness | | S2 | mm/mm | ± 2/1000 | EN824 |
| Flatness | | P4 | mm | ± 5 | EN825 |
| Dimensional stability under normal laboratory conditions | | DS(N) | % | ± 0.2 | EN1603 |
| Declared thermal conductivity at 10° C | | $\lambda_D$ | W/(m·K) | 0.031 | EN12667 |
| Declared thermal resistance | | $R_D$ | $(m^2 \cdot K)/W$ | | EN12667 |
| | 80 mm | | | 2.55 | |
| | 90 mm | | | 2.90 | |
| | 100 mm | | | 3.20 | |
| | 110 mm | | | 3.50 | |
| | 120 mm | | | 3.85 | |
| | 130 mm | | | 4.15 | |
| | 140 mm | | | 4.50 | |
| | 150 mm | | | 4.80 | |
| | 160 mm | | | 5.15 | |
| | 170 mm | | | 5.45 | |
| | 180 mm | | | 5.80 | |
| | 200 mm | | | 6.45 | |
| Bending strength | | BS | KPa | ≥ 115 | EN12089 |
| Reaction to fire* | | – | Class | E | EN13501/1 |

*Self-extinguishing - Euroclass E

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| Characteristics as per UNI EN 13163 | | Symbols | Unit of measure | FONOSTOP EPS G | Standard |
|---|---|---|---|---|---|
| *Requirements for specific applications* | | | | | |
| Tensile strength perpendicular to the surface | | TR | kPa | ≥ 100 | EN1607 |
| Water vapour diffusion resistance factor | | μ | – | 20-40 | EN12086 |
| Long-term water absorption due to immersion | | WL(T) | % | ≤ 2 | EN12087 |
| Water absorption due to partial immersion | | $W_{lp}$ | $Kg/m^2$ | ≤ 0.5 | EN12087 |
| Dynamic stiffness | | | | | |
| | 80, 90, 100, 110 mm | *s'* | $MN/m^3$ | ≤ 15 | EN29052-1 |
| | | class | – | SD15 | EN13163 |
| | 120, 130, 140, 150 mm | *s'* | $MN/m^3$ | ≤ 10 | EN29052-1 |
| | | class | – | SD10 | EN13163 |
| | 160, 170, 180, 200 mm | *s'* | $MN/m^3$ | ≤ 7 | EN29052-1 |
| | | class | | SD7 | EN13163 |
| *Additional properties* | | | | | |
| Water vapour permeability | | δ | $mg/(Pa \cdot h \cdot m)$ | 0.018-0.036 | EN12086 |
| Specific thermal capacity | | c | $J/(Kg \cdot K)$ | 1260 | UNI EN12524 |
| Linear thermal expansion coefficient | | $K^{-1}$ | – | $65 \cdot 10^{-6}$ | – |
| Temperature limit for use | | – | °C | 80 | – |

**Important warning:**
This type of insulating panel must be shielded from direct sunlight as it can cause onset of surface powder formation which is detrimental to the adhesive bonding and skimming phases.
We recommend installing tarpaulins to shade the site scaffoldings.

## PACKAGING

| THICKNESS (CM) | PACKAGE | CONTENTS |
|---|---|---|
| 8 | $m^2$ 3.5 | 7 slabs |
| 10 | $m^2$ 3 | 6 slabs |
| 12 | $m^2$ 2.5 | 5 slabs |

**N.B.** This Technical Information Sheet is compiled to the best of our technical/scientific knowledge.
Nevertheless, it is not binding and does not imply that we are responsible, as the conditions of use are outside our control.
It is recommended that the product is always checked as being suitable for the specific application.

IVAS Industria Vernici S.p.A. – Via Bellaria, 40 – 47030 San Mauro Pascoli (FC) – Italy
Phone +39 0541 815811 – Fax +39 0541 815815
www.gruppoivas.com ivas@gruppoivas.com

*Company with quality management system certified UNI EN ISO 9001*

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