

INSULATION BOARDS

EPS WHITE - GRAY (EN 13163)

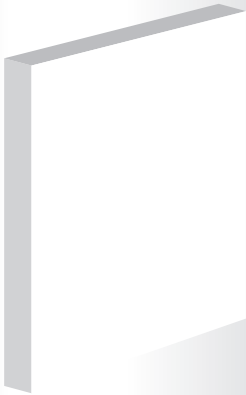
Boards made of self-extinguishing expanded polystyrene (simple or graphite), suitable for the external thermal insulation of buildings.
Minimum specifications (based on the technical approval of the MARMOLINE MONOSIS ETICS System):

Reaction to fire EN 13501.1	Class E (with density plates up to 20 kg/m ³)
Thermal resistance	According to the declaration of performance based on EN 13163 (m ² K)/W
Width EN 823	± 1 mm (Class T2)
Length EN 822	± 0,6 % \dot{n} ± 3 mm (Class L1 or L2)
Width EN 822	± 2 mm (Class W2)
Squareness EN 824	± 2 mm/m (Class S2)
Flatness EN 825	5 mm (Class P4)
Dimensional stability under laboratory conditions EN 1603	DS(N)2
Dimensional stability under specified conditions EN 1604	DS(70,-)2 or DS(70,-)1
Water absorption EN 12087	$W_{ip} < 0,5 \text{ kg/m}^2$
Water vapor diffusion resistance factor EN 12086	$\mu = 20-50$
Tensile strength, perpendicular to the faces in dry conditions EN 1607	$\sigma_{mt} \geq 80 \text{ kPa}$
Flexural strength EN 12089	$\sigma_b \geq 50 \text{ kPa}$
Shear strength EN 12090	$f_{tk} \geq 0,02 \text{ kPa}$
Shear modulus EN 12090	$G_m \geq 1 \text{ MPa}$

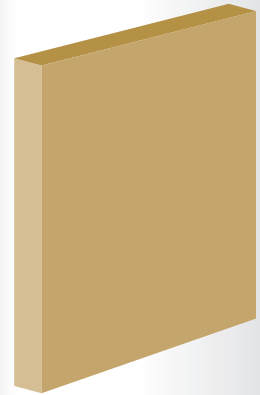
XPS (EN 13164)

Boards made of extruded polystyrene, suitable for the external thermal insulation of buildings.
Minimum specifications (based on the technical approval of the MARMOLINE MONOSIS ETICS System):

Reaction to fire EN 13501.1	Class E (boards with density up to 33 kg/m ³)
Thermal resistance	According to the declaration of performance based on EN 13164 (m ² K)/W
Width EN 823	Class T3
Length EN 822	± 8 mm
Width EN 822	± 8 mm
Squareness EN 824	≤ 5 mm/m
Flatness EN 825	≤ 6 mm
Dimensional stability under specified conditions EN 1604	DS(70,-), DS(70,90)
Water absorption (partial immersion) EN 1609	< 1,0 kg/m ²
Water absorption EN 12087	WL(T) 1,5
Water vapor diffusion resistance to the faces in dry conditions EN 12086	$\mu \leq 50$
Tensile strength, vertically to the faces in dry conditions EN 1607	400 kPa (TR 400)
Shear strength EN 12090	≥ 0,24 MPa
Shear modulus EN 12090	≥ 6,7 MPa

EPS WHITE

EPS GRAY

XPS

MW

MW (EN 13162)

Boards made of mineral wool, suitable for external thermal insulation of buildings (EN 13162). For buildings with special needs for sound proofing and fire resistance. Minimum specifications (based on the technical approval of the MARMOLINE MONOSIS ETICS System):

Reaction to fire EN 13501.1	Class A1 (with density plates up to 120 kg/m ³)
Thermal resistance	According to the declaration of performance based on EN 13162 (m ² K)/W
Width EN 823	Class T5
Length EN 822	± 2 %
Width EN 822	± 1,5 %
Squareness EN 824	≤ 5 mm/m
Flatness EN 825	≤ 6 mm
Dimensional stability under specified temperature EN 1604	DS(70,-)
Dimensional stability under specified temperature and humidity EN 1604	DS(70,90)
Water absorption (partial immersion) EN 1609	WS, WL(P)
Water vapor diffusion resistance factor EN 12086	μ ≤ 1,0
Tensile strength, vertically to the faces in dry conditions EN 1607	≥ 10 kPa (TR10)
Tensile strength, vertically to the faces in wet conditions EN 1607	≥ 5 kPa
Dynamic stiffness EN 29052.1	SD20
Air flow resistance EN 29053	AF ₆₀