

Multipor insulation board

Technical data	Description
Designation	Multipor insulation board (previously: Multipor mineral insulation board)
Approval	ETA - European Technical Assessment ETA-05/0093
Product description	Solid, mineral, monolithic Thermal insulation material made of calcium silicate hydrates Ingredients: Lime, sand, cement, water, pore-forming agent, water repellent, primer (porosity approx. 95 vol.%)
Areas of application (based on DIN 4108-10)	<ul style="list-style-type: none"> ▪ Interior wall insulation (WI, WTR) ▪ Top and bottom ceiling insulation: underground garages, cellars (DI, DEO) ▪ Thermal insulation for pitched and flat roofs (DAD, DAA dh, DAA ds) ▪ External Thermal Insulation Composite System (ETICS) ▪ Multipor base insulation system (MP base)
Product dimensions	600 x 390 mm d = 50/60/80/100/120/140/160/180/200 up to 300 mm Special formats on request
Dimensional accuracy	± 2 mm
Nominal value of thermal conductivity	$\lambda_{D23,50} = 0.040 \text{ W/(mK)}$; (WTR, WI/DI from 60 mm thickness) $\lambda_{D23,50} = 0.043 \text{ W/(mK)}$; (DAA dh, DAD, ETICS, MP plinth, WZ, DEO, WI/DI = 50 mm) $\lambda_{D23,50} = 0.045 \text{ W/(mK)}$; (DAA ds)
Rated value of thermal conductivity	$\lambda = 0.042 \text{ W/(mK)}$; (WTR, WI/DI from 60 mm thickness) $\lambda = 0.045 \text{ W/(mK)}$; (DAA dh, DAD, ETICS, MP plinth, WZ, DEO, WI/DI = 50 mm) $\lambda = 0.047 \text{ W/(mK)}$; (DAA ds)
Bulk density	90 kg/m ³ (at $\lambda = 0.042 \text{ W/(mK)}$) 110 kg/m ³ (at $\lambda = 0.045 \text{ W/(mK)}$) 115 kg/m ³ (at $\lambda = 0.047 \text{ W/(mK)}$)
Compressive strength	≥ 200 kPa (at $\lambda = 0.042 \text{ W/(mK)}$) ≥ 300 kPa (at $\lambda = 0.045 \text{ W/(mK)}$) ≥ 350 kPa (at $\lambda = 0.047 \text{ W/(mK)}$)
Deformation	≤ 1mm at 1000 N point load, structurally compression-free
Water vapour diffusion resistance	diffusible $\mu = 2$ (at $\lambda = 0.042 \text{ W/(mK)}$) $\mu = 3$ (at $\lambda = 0.045 / 0.047 \text{ W/(mK)}$)
Sorption humidity	≤ 6 mass-% (at 23 °C and 80 % relative humidity)
Building material class	A1, non-combustible according to DIN EN 13501-1
Melting point	≥ 1.200°C



Technical data sheet

Multipor mineral insulation systems

Technical data	Description
Coefficient of thermal expansion	$\alpha = 10\text{-}5/\text{K}$
Specific heat capacity	$c = 1.3 \text{ kJ}/(\text{kgK})$
Certificates	<ul style="list-style-type: none"> ▪ Institut Bauen und Umwelt e.V. (IBU e.V.): EPD-XEL-20180168-IBD1-EN "environmentally sound construction product". ▪ natureplus quality mark: 0404-0812-086-1; 0404-1501-086-2 ▪ eco-Institute label: ID 0813-33144-001 (VOC-free: Standard A+)
DNBG registration code	WG9F8U
Other properties	<ul style="list-style-type: none"> ▪ Harmless in terms of building biology and microbiology, inhibitory effect against fungi and microorganisms, completely recyclable
Disposal	<p>Multipor mineral insulation boards can be disposed of in class II landfills according to DepV.</p> <p>Key according to European Waste Catalogue (EWC): 17 01 01</p>

New designations Multipor Mineral Insulation Boards	
old	new
Multipor Mineral Insulation Board WI / WI Clay	Multipor TIPwall M3/M4
Multipor WI compact plus	Multipor Compact Plus M3
Multipor ExSal Therm board	Multipor ExSal Therm M2
Multipor Mineral Insulation Board DI	Multipor TIPceiling M3/M4
Multipor Mineral Insulation Board WAP	Multipor TOPwall M3
Multipor base insulation board	Multipor TOPbase M3
Multipor flat roof insulation DAA dh / DAA ds	Multipor TOProof-F M2/M3
Multipor gradient roof insulation DAA dh / DAA ds	Multipor TOProof-S M2/M3
Multipor Pitched Roof Insulation DAD	Multipor TOProof-P M3
Multipor reveal panel	Multipor Reveal M2
Multipor insulation wedge	Multipor Wedge M4

Xella Germany GmbH

Xella customer information

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🌐 www.multipor.de

Multipor is a registered trademark of the Xella Group.

BACKTOEARTH

Building Performance Specialists

www.backtoearth.co.uk

01392 861763



Multipor ExSal Therm board

Technical data	Description of the
Designation	Multipor ExSal Therm board
Authorisation	ETA - European Technical Assessment ETA-05/0093
Product description	Solid, mineral, monolithic Thermal insulation material made of calcium silicate hydrates Ingredients: lime, sand, cement, water, pore-forming agent, hydrophobising agent, primer (porosity approx. 95 % by volume)
Area of application	Interior wall insulation for the renovation of damp and/or saline masonry
Dimensions	600 x 390 mm d = 60/80/100
Dimensional accuracy	± 2 mm
Raw density	115 kg/m ³
Nominal value of thermal conductivity	$\lambda_{D23,50} = 0.045 \text{ W/(mK)}$
Rated value of thermal conductivity	$\lambda = 0.047 \text{ W/(mK)}$
Rated value of thermal conductivity incl. safety margin*	$\lambda = 0.060 \text{ W/(mK)}$
Coefficient of thermal expansion	$\alpha = 10\text{-}5/\text{K}$
Specific heat capacity	$c = 1.3 \text{ kJ/(kgK)}$

*With permanent moisture ingress into the desalination plate

Multipor ExSal Therm board

Technical data	Description of the
Water vapour diffusion resistance	open to diffusion $\mu = 3$
Building material class	A1, non-combustible according to DIN EN 13501-1
Melting point	$\geq 1.200^{\circ}\text{C}$
Compressive strength	≥ 350 kPa
Deformation	≤ 1 mm at 1000 N point load, constructionally compression-free
Sorption moisture	≤ 6 mass % (at 23 °C and 80 % relative humidity)
Other properties	<ul style="list-style-type: none">▪ Institut Bauen und Umwelt e.V. (IBU e.V.): EPD-XEL-2009212-D "environmentally compatible building product"▪ Natureplus quality mark: 0404-0812-0881▪ eco-Institute label: ID 0813-33144-001 (VOC-free: Standard A+)▪ Biologically and microbiologically harmless, inhibitory effect against fungi and microorganisms, fully recyclable

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