



Technical Data Sheet

MgO green Magnesium

1. Product Identification/Trade name

MgO green Magnesium Oxide Board

Producer: LS Tech-Homes SA, ul. Karola Korna 7/4, 43-300 Bielsko-Biała, PL

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2. Product description

MgO green magnesium oxide boards are hard boards with core based on magnesium oxide and magnesium chloride, perlite and wood fibers, from both sides they are covered with fiberglass sink-in core surface.

3. Appearance

Color from white to beige, plain surface layer, bottom layer with drawing of fiberglass lathing sink-in near-surface layer.

4. Hazard Identification

The board does not require any tagging. It is necessary to avoid dust production and, in case of its production, it is necessary to wear protecting masks. The board does not emit volatile organic compounds, lead and cadmium, according to the procedures: PB LS-002/4/09-1999 and PB LS-018/1/06-2006.

5. Application

MgO green magnesium oxide boards are used inside and inside buildings however they cannot be exposed to direct influence of water and weather. They can be used to walls, ceilings and floors inside buildings (subfloors are made of 11 mm thick boards), and outside buildings they can be used as claddings of elevation but on the condition that the boards are protected from weather.

- MgO green boards can be used as claddings in dry building system having high requirements fire protection (MgO green boards are mounted directly to the base or elements having class of reaction to fire A2-s3, d0 according to PN-EN 13501-1+A1:2010, have been classified in class A2-s1, d0 reaction to fire according to PN-EN13501-1+A1:2010)
- Acoustic insulation (up to 20db).
- Strength and hardness (force exerted put by one single molly dowel is 1.7kN/m²).
- Stiffness (thanks to density 948kg/m²).
- Humidity resistance (non-permeable face of the A class board, non-permeability more or less 7,9% - absorption class H1<8%).

Application:

- Increased humidity areas,
- Fire protection claddings,
- Strike resistance claddings,
- Frame construction (frame walls),
- High traffic volume, for example: corridors,
- Hard siding cladding,
- Acoustic cladding (perforated board),
- Strong subfloors,



- Suspended ceilings and self-supporting ceilings,
- Ceilings under wood beamed ceilings,
- Prewalls,
- Loft,
- Acoustic partition walls,
- Single-family and multi-family houses and multi apartment residential buildings,
- Public facility buildings,
- Vacation houses and utility buildings,
- Fences, acoustic screen panels.

6. Technical parameters

Board thickness	Coefficient of heat transfer (lambda) according to PN-EN12664:2002	Difussion coefficient according to PN-EN12572:2004	Reaction to fire according to PN-EN 13501-1+A1:2010	Density according to PB-LF-013/1/08-2006	Absorption according to PB-EN 15283 +A1:2010	Flexural strength according to PN-EN 12467:2009	Compression strength according to PM-EN 13813:2003
11mm	0,155 (W/m*K)	579,56	A2-S1,d0	0,9g/cm3	7.9%	Class 2 - 7MPa	Class C12 - 14,53MPa

- A category for hydrostatic head resistance according to PN-EN 12467:2009
- The board does not emit volatile organic compounds, lead and cadmium according to the procedures: PB LS-002/4/09-1999 and PB LS-018/1/06-2006
- Thickness - in 6 mm to 20 mm
- Width - in 1000 mm to 1220 mm
- Length - in 2400 mm to 3000 mm

7. Packadging, storage and transportation

MgO green board should be packed, stored and transported in the way which ensures that the technical properties would not be changed. Products should be stored in a dry place. The product is not dangerous as far as national and international transport law is concerned. Maximal dimension of the board is 1220 x 3000 mm, it is possible to cut board at client's demand.

MgO green boards should be used according to technical project, prepared for appropriate building including:

- Norms, technical and building especially, Minister of Infrastructure Regulation of 12th April 2002 on technical conditions of buildings and their location (Dz.U.No75 of 2002 item 690 with changes).
- Technical Approval ITB AT-15-8776/2011.
- Mounting instructions prepared by the producer.

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