

# PLE STONE WOOL BOARDS



Designation code CE: MW – EN 13162 – T3- MU1



## TECHNICAL SPECIFICATION

Boards made from ISOVER stone wool. The boards are obtained by melting the mineral raw materials in a furnace, fiberising the melt by REX process, spraying a binder and adding mineral oils for protection against dust and water repellence.

The mineral fibers mat is processed into boards which are packaged on the production line.

## APPLICATION

ISOVER PLE boards are used for thermal, acoustic and fire insulation in civil and industrial buildings:

- wooden houses walls
- metallic buildings walls
- pitched roofs and attics
- partition walls with specified fire resistance performances

## PACKAGING, TRANSPORT, WAREHOUSING

ISOVER PLE boards are packaged in PE foil. The boards must be transported and stored avoiding contact with water, or other damage.

## BENEFITS

- high thermal insulation performance (low thermal conductivity)
- fire safety - non combustible material
- excellent acoustic properties (high absorption coefficient)
- easy to handle, non-toxic
- low vapour flow resistance
- long term resistance in vertical position
- environment friendly and hygienic
- completely hydrophobic - is made water repellent
- long life span and time-stable properties
- resistant to mould, mildew, rodents and insects
- chemically neutral, non-corrosive
- easy workability - can be cut, drilled etc.

## CERTIFICATES, STANDARDS, APPROVALS

- Certificate of constancy of performance EC: 1840-CPR-99/91/EC/0114-07
- ISO 9001, ISO 14001, OHSAS 18001

## TECHNICAL PARAMETERS

PARAMETER	UNIT	VALUE
<b>THERMAL INSULATION PROPERTIES</b>		
Declared thermal conductivity $\lambda_D$	W/(m K)	0,040
<b>FIRE SAFETY PROPERTIES</b>		
Reaction to fire	-	A1
<b>OTHER PROPERTIES</b>		
Maximum temperature for use	°C	200
Melting temperature	°C	≥ 1000
Air flow resistivity $A_{Fr}$	kPa s/m <sup>2</sup>	> 5
Water vapour diffusion resistance factor $\mu$ MU	-	< 1

## DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Length * Width (mm)	Dimension per package (m <sup>2</sup> /package)	Declared thermal resistance $R_D$ (m <sup>2</sup> .K/W)
PLE 50	50	1000 x 600	4,80	1,25
PLE 60	60	1000 x 600	3,60	1,50
PLE 80	80	1000 x 600	2,40	2,00
PLE 100	100	1000 x 600	2,40	2,50
PLE 120	120	1000 x 600	2,40	3,00



02.12.2014. Declared characteristics are valid at the date of publishing. The manufacturer reserves the right to change them.