

ISOVER PLC STONE WOOL SLABS



Code certification CE: MW – EN 13162 – T3- MU1



TECHNICAL SPECIFICATION

Slabs made from Isover stone wool. The slabs 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 the final shape as slabs which are packaged on the production line.

APPLICATIONS

Isover PLC slabs are used for thermal, acoustic and fire insulation in civil and industrial buildings:

- curtain walls
- partition walls with high fire resistance properties
- metallic buildings
- ventilated facades
- walls of houses with wood frame
- industrial equipment with flat walls

PACKAGING, TRANSPORT, WAREHOUSING

Isover PLC 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 - water repellent
- long life span and timestable properties
- resistant to mould, mildew, rodents and insects
- chemically neutral, non-corrosive
- easy workability - can be cut, drilled etc.

CERTIFICATES, STANDARDS, APPROVALS

- EC certificate: 1840-DPC-99/91/EC/0114-07
- ISO 9001, ISO 14001

TECHNICAL PARAMETERS

PARAMETER	UNIT	VALUE
THERMAL ISULATION PROPERTIES		
Declared thermal conductivity λ_D	W/(m K)	0,035
FIRE SAFETY PROPERTIES		
Reaction to fire	-	A1
OTHER PROPERTIES		
Maximum temperature for use	°C	200
Melting temperature	°C	> 1000
Density	kg/m ³	70
Air flow resistivity AF_r	kPa s/m ²	>5
Water vapour diffusion resistance factor μ MU	-	>1

SIZE AND PACKAGING

Product	Thickness (mm)	Length x width (mm x mm)	Area (m ² /package)	Declared thermal resistance R_D (m ² .K/W)
Isover PLC 40	40	1000 x 600	4,80	1,10
Isover PLC 50	50	1000 x 600	4,80	1,40
Isover PLC 60	60	1000 x 600	3,60	1,70
Isover PLC 80	80	1000 x 600	2,40	2,25
Isover PLC 100	100	1000 x 600	2,40	2,85



02.02.2011. Declared characteristics are valid at the date of publishing. The manufacturer reserves the right to change the values.

