

# ISOVER PLN NT STONE WOOL BOARDS



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



## TECHNICAL SPECIFICATION

Insulating slabs made of Isovver mineral wool. The production method is based on fibering mineral composition melt and other additives and ingredients. The mineral fibres produced are processed into the final slab shape in the production line. The entire fibre surface is made water repellent.

The slabs in the construction should be protected suitably against the weather effects (outer sheathing, alternatively diffusion foil). The slabs are coated with black non-woven fibreglass fabric.

## APPLICATION

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

- ventilated facades
- curtain walls
- ceilings
- partition walls with specified fire resistance performances
- metallic buildings walls
- wooden houses walls

## PACKAGING, TRANSPORT, WAREHOUSING

ISOVER PLN NT 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

- EC Certificate: 1840-DPC-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)	0,034							
<b>FIRE SAFETY PROPERTIES</b>										
Reaction to fire		-	A1							
<b>OTHER PROPERTIES</b>										
Maximum temperature for use		°C	200							
Melting temperature		°C	≥ 1000							
Water vapour diffusion resistance factor $\mu$ MU		-	1							
Chemical behavior		-	It does not react chemically. Do not keep moisture. Allows vapor diffusion							
The practical sound absorption coefficient $\alpha$	Frequency	Hz	250	400	630	1000	1600	2500	4000	5000
	Thickness	100 mm	0,80	0,82	0,85	0,92	0,93	0,96	0,97	0,99

## DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Length * Width (mm)	Dimension per package	Declared thermal resistance $R_D$ (m <sup>2</sup> .K/W)
PLN NT	50	1000 x 600	3,00	1,45
PLN NT	60	1000 x 600	3,00	1,75
PLN NT	80	1000 x 600	2,40	2,35
PLN NT	100	1000 x 600	1,80	2,90
PLN NT	120	1000 x 600	1,80	3,50



08.2017. Declared characteristics are valid at the date of publishing. The manufacturer reserves the right to change them.

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