Depron®

INTERIOR INSULATION TILE

- Ideal for renovation of living space
- Energy-, environmental- and health-conscious interior renovation
- Reliable protection against cold, humidity and mould

our product video

www.depron-daemmplatte.eu

Improve living environment – Save energy

High heat losses are the major shortcoming of outdated building structures, which do not have efficient thermal insulation. The energy loss can be up to 85% in some objects. This affects not only the environment but causes considerable unnecessary costs. Uneasy interior conditions such as air draughts and mould growth by condensation, in particular at thermal bridges, are the critical health consequences.

By retrofitting Depron® insulation tiles an increase in the surface temperature can be achieved. The ready-to-wallpaper interior insulation system protects against cold and moisture and prevents new mould formation. With Depron® insulation tiles not only the heat losses can be reduced by up to 43%*, also the heating time of the living space is considerably reduced. And: at the same time the old surfaces are prepared for processing with wallpaper or paint.

"A healthy living environment for my family and me"

TÜV SAARLAND
XPS Dämmplatten
Schadstoffgeprüft
Nr. SC44793 11/2021

The advantages

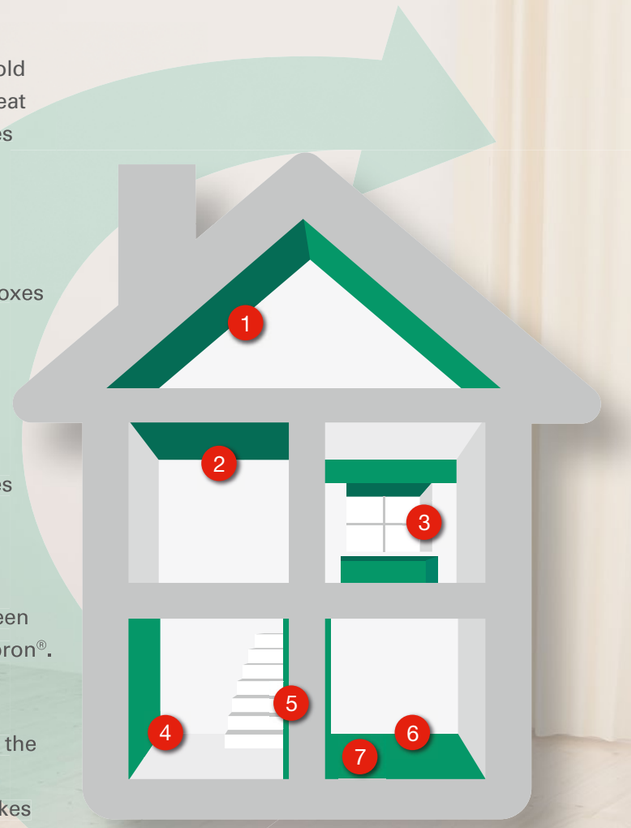
Interior insulation with Depron® ensures the hygienic minimum heat insulation in accordance with DIN 4108. The minimum thermal insulation prevents surface condensation and thus finally mould formation. This protects not only the building fabric, but also the health of the residents.
Another advantage of interior insulation is the reduction of heat loss, from which results a rapid heating of the living room.

- **Mould prevention**
- **Unpleasant radiant cold is prevented**
- **Can be used in historic buildings**
- **Insulation work can be performed in any season**
- **Good price / performance ratio**

* In relation to a non-insulated, 24 cm thick brickwork.

Depron® – from the attic to the basement

1. **Roof**
   The insulation of the roof slopes ensures a more comfortable living environment and reduces heat loss.
2. **Room ceiling and floor slab**
   Insulation of floor slabs decouples the heat or cold bridges and causes an additional reduction of heat loss. The low thickness of Depron® insulation tiles minimizes ceiling height loss.
3. **Heat bridges**
   Easy processing even in difficult places, such as window reveals, radiator niches, roller shutter boxes or corners.
4. **External walls**
   Insulating external walls from the inside always is a topic where a classical exterior insulation is not possible. This measure significantly improves the heat transfer coefficient.
5. **Dividing walls**
   Heat losses incurred due to dividing walls between differently heated rooms can be reduced by Depron®.
6. **Floor**
   Cold bridges are eliminated. A nice side effect is the impact sound insulation achieved with Depron®. The high pressure resistance of the material makes a good base for use on the floor.

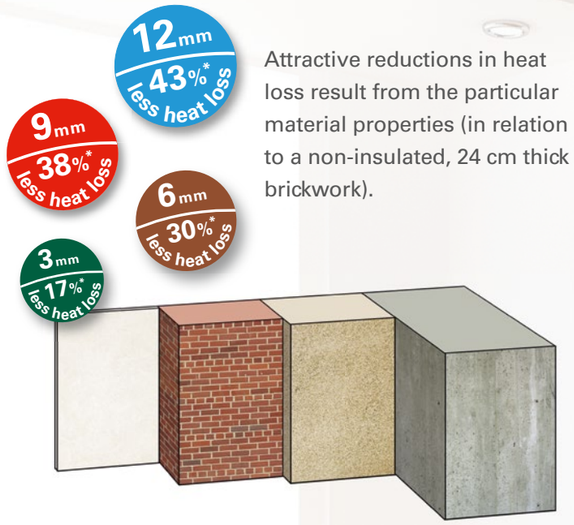


+++ Insulation effect without loss of living space +++ Less heat-up time of the rooms +++

Best insulation values – quick amortisation

Depron® interior insulation reduces energy consumption. Due to excellent material properties low heating costs can be achieved.

The lightweight polystyrene rigid foam panels score with an excellent pressure resistance and outstanding thermal insulation values combined with low material thickness compared to other building materials (with the same insulation performance). The thermal conductivity group WLG 035 speaks for itself.



Attractive reductions in heat loss result from the particular material properties (in relation to a non-insulated, 24 cm thick brickwork).

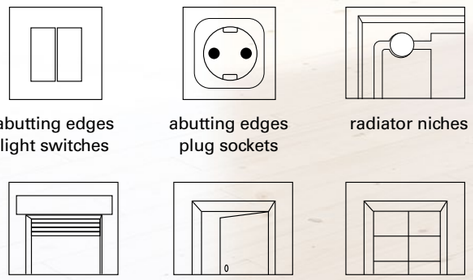
9 mm Depron® insulation tile | 150 mm brick | 203 mm limestone | 540 mm normal concrete

"The optimum solution for our old-building renovation"

Optimal processing

The different material thicknesses ensure efficient processing, especially in tricky spots like window reveals, plug sockets, light switches, radiator niches or roller shutter boxes.

Perfect handling with:



abutting edges light switches | abutting edges plug sockets | radiator niches

roller shutter boxes | abutting edges door frames | window corners and reveals

For many surfaces

The renovation work can be finished with various surfaces such as wallpaper and wall coverings of different types, glass and structure fabric, stoneware wall tiles and synthetic resin, dispersion and roller plasters.

"Quick, easy and safe processing"

Wallpaper

Paint

Tiles

Plaster

+++ Insulation effect = saving of costs +++ Very good price / performance ratio +++

Preparation

Suitable are all wall and ceiling areas whose surfaces are dry, stable, clean, even, smooth and absorbent.

Surface preparation
Loosen old wallpaper with wallpaper remover and take it off completely. Treat existing mould with mould spray. Treat arenaceous and chalky surfaces with primer. Fill cracks, holes and unevenness with spackle. Remove dust from smoothed surfaces and prime them.

Installing the tiles

Plan allocation of tiles on the wall
Take Depron® tile out of the packaging and mark it on the wall.

Apply glue
Apply the rigid foam glue evenly with a notched trowel in the planned size on the surface.

Lay tile
Lay Depron® insulation tiles with the marked backside ("Depron®" imprint) into the wet adhesive and roll well with a rubber roller. Roll out air bubbles sidewards.

Drying time
The drying time is 24 to 48 hours depending on the indoor climate.

Lay the tiles in an offset manner
Cut the tile for the next row to half of the lower panel, mark it on the wall, stick end-to-end and roll.

Windows and niches

Window reveals
Choose the appropriate tile thickness for the window reveal, cut to size, glue and roll or press down firmly.

Final steps

Fill transition joints

Fill butt joints with sealer and smooth out neatly. If necessary sand it after drying.

Use a roll for applying a primer coat made of diluted rigid foam adhesive (add 20% water) and let it dry before further processing.

e.g. Wallpapering

After drying of the surfaces you can proceed with wallpapering or the desired surface finishings.

Depron®

SEIT 40 JAHREN

TÜV SAARLAND XPS Dämmplatten Schadstoffgeprüft Nr. SC44793 11/2021

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ A+ A B C *

* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

Technical specifications

	Symbol	G3	G6	G9	G12	Unit
Thickness	s	3	6	9	12	mm
Sheet dimensions (L x W)		Folded tile 2500 x 800			1250 x 800	mm
Foam density	ρ_s	40	33	35	38	kg/m³
Thermal conductivity (measured)	λ	0,029	0,030	0,030	0,030	W/mK
Heat transfer coefficent (U-value)	U	9,9	5,1	3,4	2,6	W/m²K
Thermal resistance	R (oder 1/∧)	0,10	0,19	0,29	0,39	m²K/W
Reduction of thermal conductivity by insulationtile**		17%	30%	38%	43%	%
** in relation to a 24 cm thick brickwork						
Compression stress at 10% foam deformation	σ_{d10}	100	150	150	180	kPa
Water absorption	WA_v	< 0,1	< 0,1	< 0,1	< 0,1	Vol%
Water vapour permeability resistance factor	μ	150	150	150	150	-
Watervapourdiffusion equivalent (μ x s/1000)	S_d	0,45	0,9	1,35	1,80	m
VVOC/COV volatile organic components	C_6 bis C_{16}	A+				Grenelle-Law

Pressure ressistant for floor

More special features: Is odorless, does not rot and does not get mouldy.
Only use solvent-free adhesives.
Fire classification: B2 according to DIN 4102-1; test report N° 23007514 (MPA)
Reaction to fire classification E according to DIN EN 13501-1; classification report N° 902 7088 000-4 (MPA)

Branded product
Made in Germany

as per 04/2022