

Phonotherm[®] by warmotech

INSULATE - CONSTRUCT - FASTEN



INNOVATIVE
SYSTEM SOLUTIONS



CUSTOMISED
PRODUCTION



DIVERSE AREAS OF
APPLICATION



SUSTAINABLE
BUILDING



WINDOW CONSTRUCTION



FACADE CONSTRUCTION



PITCHED AND FLAT ROOF

 Hergestellt in Deutschland
[Made in Germany]



PHONOTHERM®

DISCOVER THE FUTURE OF BUILDING

When conventional construction materials such as wood, plastic and metal reach their limits, it's time for **Phonotherm®** - an uncompromisingly good construction panel for demanding building projects. Thanks to our General Technical Approval and the new European Technical Assessment, **Phonotherm®** fulfils many building regulations requirements for the national and European market.

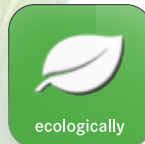
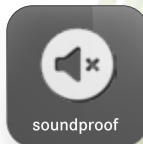
PROPERTIES

Phonotherm® consists of high-quality, CFC-, HCFC- and formaldehyde-free rigid polyurethane foams.

Phonotherm® has been specially developed for demanding use in extreme constructions. The special feature of **Phonotherm®** is that it is manufactured from waste materials from the rigid polyurethane foam industry, which is not only environmentally friendly, but also results in an astonishing service life of more than 50 years.



PHONOTHERM® is





ADVANTAGES

- very high compressive strength ($\geq 7 \text{ N/mm}^2$)
- very good screw pull-out strength (up to 6.000 N)
- sustainable material
- very good sound insulation value (38 dB)
- large panel formats
- general building authority approval (AbZ)
- european technical assessment (ETA)

winner
OF THE FUTURE AWARD
BRANDENBURG 2023



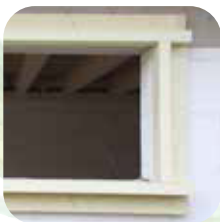
POWERFUL AND ADAPTABLE

Thanks to the use of our modern machinery, we can customise **Phonotherm®** to your individual requirements.

PANEL FORMATS:

- 2.400 x 1.350 / 1.500 mm
- 3.600 x 1.350 / 1.500 mm
- in thicknesses of 6 - 120 mm
- customised cuts and processing possible on request

PHONOTHERM® PRE-WALL INSTALLATION SYSTEM



THE CLEVER SOLUTION FOR THERMAL BRIDGE-FREE WINDOW INSTALLATION

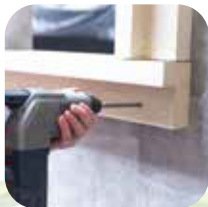
Windows and doors are moving more into the insulation level. Metal mounting brackets help to move the windows outwards, but at the same time cause problematic thermal bridges and leaks in the seal. The connection-friendly **Phonotherm® pre-wall installation system** is the problem solver and fulfils the requirements of the GEG for thermal bridge-free window installation.

The use of the pre-wall installation system creates a perfect connection joint, which can be professionally sealed with **Winflex® TriSave** to ensure optimum isothermal flow.

PRODUCT ADVANTAGES

- optimal junction in the insulation layer
- simple and efficient installation on masonry
- compliance with all requirements of the GEG and RAL installation
- shape and volume stable
- water-resistant and 100% recyclable
- moisture-resistant surface





You can get the **Phonotherm® pre-wall installation system** in lengths of up to 2,400 mm and a projection range of 90 - 160 mm. Due to its workability with conventional woodworking machines, the pre-wall installation system can be easily adapted on site.

The **Phonotherm® pre-wall installation system** provides you with many key figures to carry out relevant project calculations. Additionally, the **Phonotherm® pre-wall installation system** has numerous tests and approvals that offer you and your customers increased security for many years.

TESTED SAFETY AND SIMPLY CONVINCING

- AbP Nr. P-20181326
- AbZ Nr. Z-23.11-1952
- component tested according to MO-01/1 and MO-02/1
- tested thermal conductivity with 0,076 W/(m*K)
- tested water vapour diffusion
- tested load transfer
- tested sound insulation rating (RS,W= 59 dB)



PHONOTHERM® PARAPET ELEMENT



INNOVATIVE SOLUTION FOR EFFICIENT ROOF EDGE DESIGN

Flat roofs require continuous insulation for both the exterior walls and the roof itself, but achieving this has not always been straightforward. In particular, at the parapet where the flat roof insulation meets the facade insulation, geometric and structural thermal bridges can occur.

BOSIG has now developed a convenient solution that effectively prevents these thermal bridges at the roof edge construction. With the prefabricated **Phonotherm® parapet elements**, roof constructions can be insulated reliably, with minimal effort, and in a sustainable manner.

PRODUCT ADVANTAGES

- thermal bridge-free transition to the façade insulation
- safe water drainage due to sloping cut
- does not drip when burning, does not smoulder
- biological and ecological in construction
- resistant to ageing and rotting, rot-proof
- recyclable and environmentally friendly



PHONOTHERM® BASE PROFILE



YOUR CONSTRUCTION PROJECT, OUR FUNDAMENTAL STRENGTH

Successful construction requires a perfect base - and this is where **Phonotherm® base profiles** come into play.

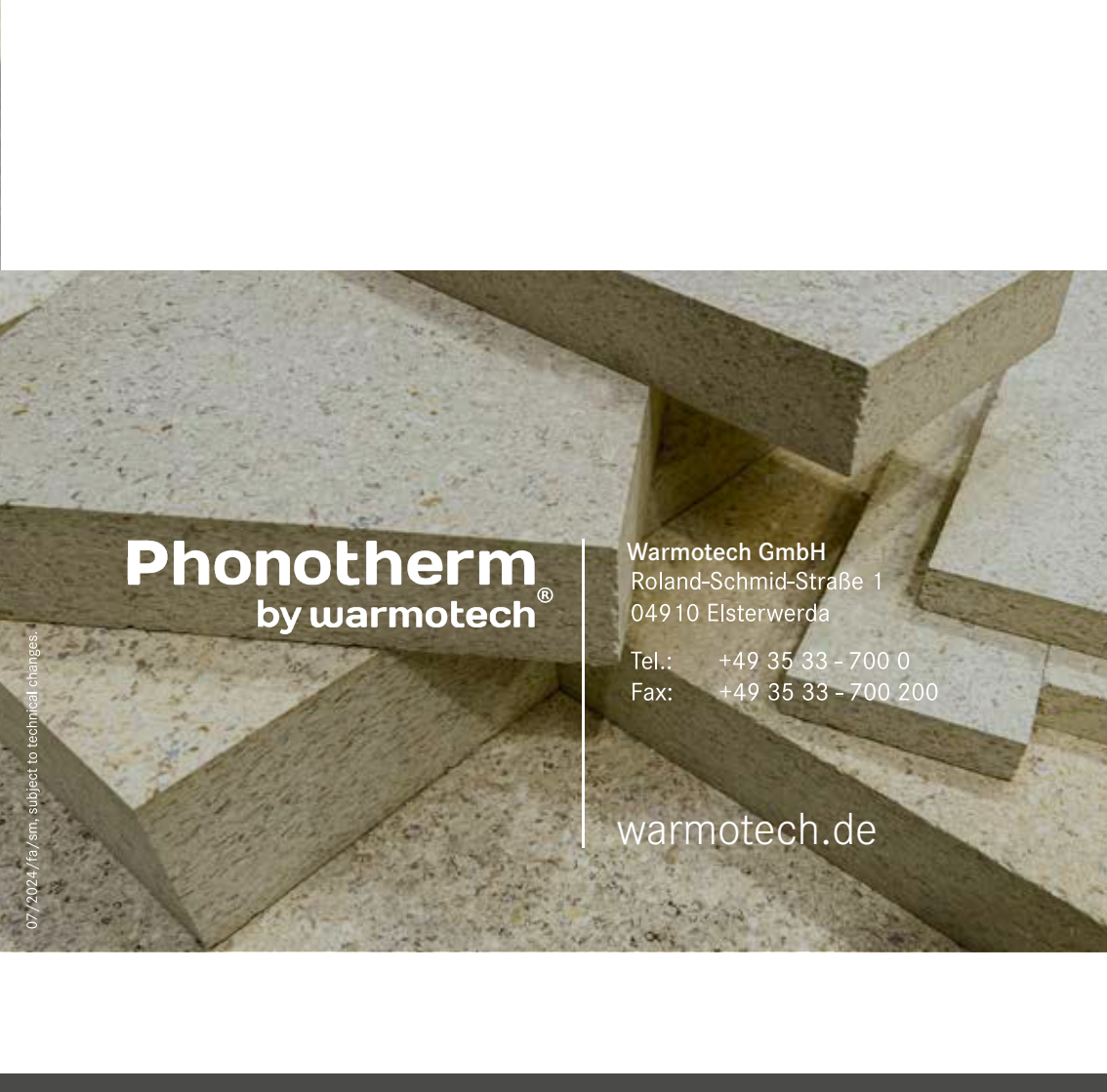
The **Phonotherm® base profile** guarantees safe load transfer and is characterised by its resistance to moisture. But that's not all, because this material also has very good screw pull-out strength.

If you are looking for strength, reliability and innovation, choose **Phonotherm®**.

PRODUCT ADVANTAGES

- easy processing on site with standard woodworking machines
- 100% water-resistant
- harmless to building biology and ecology
- resistant to ageing and decay
- recyclable and environmentally friendly



The background of the entire page is a photograph of several acoustic panels. These panels are light-colored, possibly white or light grey, with a visible fibrous texture. They are arranged in a way that shows their edges and how they interlock or are stacked, creating a sense of depth and texture. The lighting is even, highlighting the material's grain.

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