

*Thermal insulation and
brickwork in one*

... no foundations required!

THE BRICK PANELS

BRICK SYSTEMS FOR
THE FUTURE

For
old houses
prefabricated
houses
new houses



We transform your house!

Dear Readers,

Thank you for your interest in our products.

The BRICK PANELS systems have proved their value for many years and have been subject to constant further development to the benefit of our customers.

We hope you enjoy reading this brochure which can, of course, only provide a small insight and we would be delighted to welcome you as a member of our extensive and satisfied customer base. Take a look around!

We are the right partner if you

- *wish to retain the substance of your house,*
- *wish to face your house without foundations or wish to face and thermally insulate in a single step,*
- *wish to live in a pleasant climatic environment,*
- *attach importance to maximum quality and environmental friendliness,*
- *wish to choose from more than 30 colours as well as a variety of facing tile formats,*
- *attach importance to good skilled handiwork (the façade is joined by hand and can not be distinguished from "normal" masonry)*
- *wish to increase the value of your house.*



Brickwork and insulation without foundations

... for old houses, prefabricated houses and new houses.

The BRICK PANELS system permits clean, uncomplicated and inexpensive brick facing of walls on old, prefabricated and new houses offering both thermal and sound insulation at the same time.

The "BRICK PANELS" bricks are a natural composite of thermal-insulation polyurethane and high-quality, hard-baked brick facing tiles made of clay.

Without requiring any preliminary work, the BRICK PANELS elements are secured directly to the outside wall using special wall plugs before being joined.

No complicated foundations work is required and verge flashings and cullises (eaves) do not usually need to be extended.

There is a host of individual design possibilities available with special elements co-ordinated for the specific building available for corner areas, lintels and the like.

Thermal insulation composite systems

BRICK PANELS / BRICK PANELS PUR-less / BRICK PANELS "Netz" system
Thermal conductivity 0.028 W/(m²·K) rigid PUR foam as per DIN 52612 (WLG 030)
Building materials class B1 as per DIN 4102-1

Nominal thicknesses: 9 mm, 17 mm, (PUR-less/"Netz"), 35 mm, 40 mm, 60 mm, 80 mm, 90 mm, 100 mm

Bonds: Stretcher bond, Flemish bond
Brick formats: Slim format (DF) 52 x 240 mm
Reichsformat (RF) 65 x 240 mm
Waldickformat (WDF) 65 x 210 mm
Normal format (NF) 71 x 240 mm

Panel weight: approx. 25 kg/m²

The BRICK PANEL element

Hard-baked facing tile
approx. 17 mm

PUR insulation layer
e.g. approx. 43 mm

Basic profile
aluminium (does not have a supporting function – serves as a clean edge preventing penetration by humidity or pests from below)

Building protection

The BRICK PANELS facades protect houses from penetration by water and driving rain – while enabling them to "breathe" as steam can diffuse outwards.

This means: no formation of condensation which prevents damage and maintains the valuable building substance.

Like all other services performed on building-sites, this is subject to proper and professional installation.

The overriding share of construction damage arises through penetrating water and humidity. If you're lucky, only the wallpaper will sprout mould but often the entire wall cracks once it's become wet.



THE BRICK PANELS

Using these special wall plug reinforcements, our BRICK PANELS Plus system has construction certification for building heights of up to 22 metres (depending on the state).

U-value

The U-value indicates the amount of energy (in Watt) flowing per square metre where the temperature cools by one degree (Kelvin). The lower the U-value, the less heat the building loses.

e.g.: -5 °C outside, +20 °C inside.

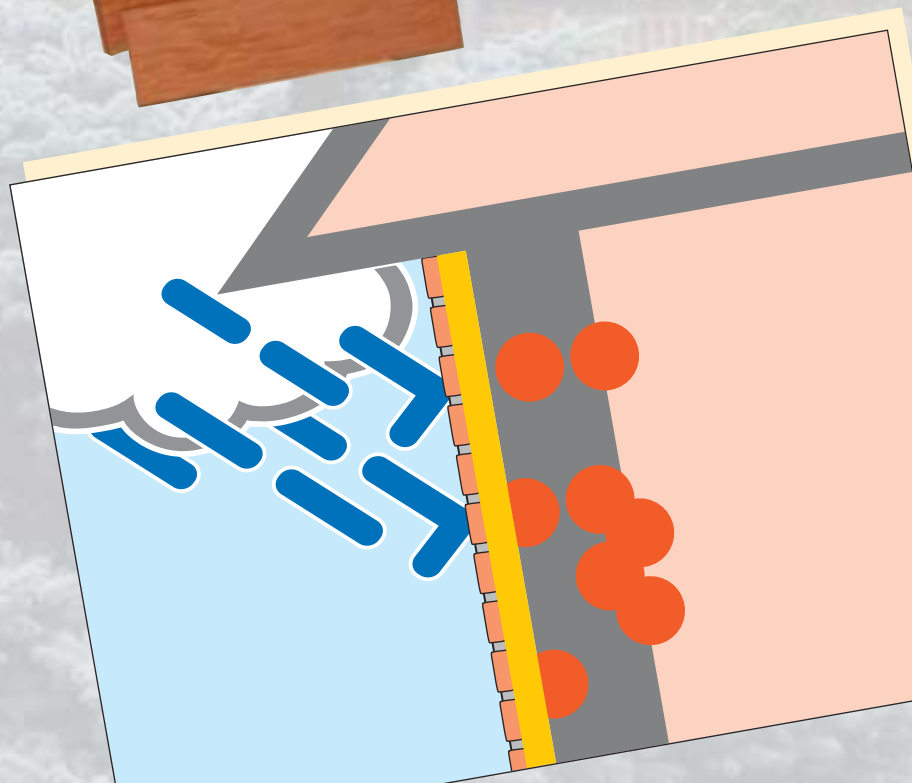
Outside wall surface area: approx. 100 m²

Heat loss at:

U-value of 3,0 W/m² · K = 7.500 W.

U-value of 1,0 W/m² · K = 2.500 W.

U-value of 0,3 W/m² · K = 750 W.



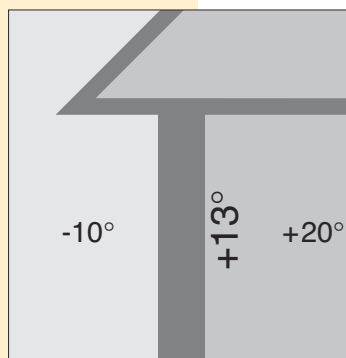
Hand-moulded – rustic and elegant
DF 5400



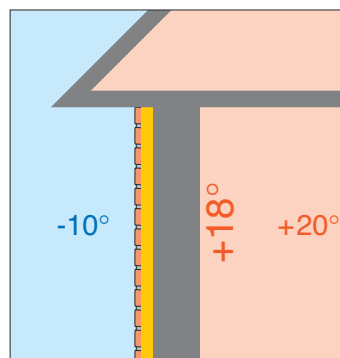
Elegance in white
DF 3721



Proper insulation = healthy living



Without
BRICK PANELS



With
BRICK PANELS
U-value: 0,35 W/m² · K
Low heating costs

Thermal insulation.

The BRICK PANELS 80 mm system improves the U-value of a lime sandstone wall 24 cm thick from 1.44 to 0.35 W/m² · K, for example. This achieves savings in heating costs of up to 50% for detached houses. The BRICK PANELS represents full thermal insulation which you can rely on. Our full thermal insulation system pursues the ideal physical principle of exterior insulation.

The thermal insulation of a house has the task of delaying the transfer of heat from inside to the outside in winter and from outside to the inside in summer. With the help of this low-energy system, all of the requirements of the new energy-savings decree can be fulfilled. The BRICK PANELS can be currently categorised as one of the best providers of thermal insulation with integrated sound insulation in the building sector.

Healthy living.

Apart from savings in valuable energy, striking design and long product life, there is one further key argument for using our product. It can not be expressed in monetary terms but is all the more important for that: The BRICK PANELS provides a pleasant ambient environment complying with all of the requirements of modern medicine. The living conditions arising from the requirements of the DIN 4108 are by no means satisfactory.

The surface temperature on the inside of the exterior wall applies as the benchmark for the comfort of a living space. Temperatures below 15 °C with room temperature of 20 °C are evidence of a too cold, uncomfortable and unhealthy indoor environment. Ideally, the difference between room temperature and the surface temperature on the inside of the exterior wall should be less than 3 °C, while the exterior insulation ensures a pleasantly cool environment in summer. One advantage which you will soon learn to appreciate.

The chart indicates the improved U-value when our products are fitted. (The lower the figure, the better the house is insulated.)

Material: polyurethane foam + 17 mm lintel.

An overview of PUR foam thicknesses in our individual systems:

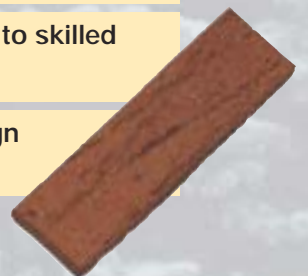
17 mm system	=	without PUR foam
35 mm system	=	18 mm PUR foam
60 mm system	=	43 mm PUR foam
80 mm system	=	63 mm PUR foam
90 mm system	=	73 mm PUR foam
100 mm system	=	83 mm PUR foam

Material	Raw density kg/m ³	Wall thickness	U-value of wall without insulation (W/m ² · K)	U-values of walls with insulation (W/m ² · K)							
				17 mm sy- stem PUR-less	35 mm system	40 mm system	60 mm system	80 mm system	90 mm system	100 mm system	110 mm system
Lime sandstone 1.0	1000	24,0 cm	1,44	1,39	1,09	0,74	0,47	0,35	0,31	0,27	0,25
	1000	30,0 cm	1,23	1,19	0,81	0,68	0,45	0,33	0,30	0,27	0,24
KS air layer	1200	11,5 + 11,5	1,26	1,22	0,82	0,69	0,45	0,34	0,30	0,27	0,24
	1200	17,5 + 11,5	1,11	1,08	0,74	0,64	0,43	0,32	0,29	0,26	0,24
Concrete	2400	24,0 cm	3,03	2,85	1,34	1,02	0,57	0,40	0,34	0,30	0,27
	2400	36,5 cm	2,57	2,43	1,24	0,96	0,55	0,39	0,34	0,30	0,27
Vertically perforated brick 1.2	1200	24,0 cm	1,44	1,39	0,90	0,74	0,47	0,35	0,31	0,27	0,25
	1200	36,5 cm	0,81	1,03	0,73	0,63	0,42	0,32	0,28	0,26	0,23
Foam mortar G4	600	24,0 cm	0,58	0,58	0,47	0,42	0,32	0,26	0,23	0,21	0,20
	600	30,0 cm	0,48	0,47	0,40	0,37	0,28	0,23	0,21	0,20	0,18

Facts that count



- Complete system from a single source: we supply all of the accessory materials required.
- All components such as window soffits, lintels and corners are manufactured specially for the building: no material
- Various insulating layer thicknesses (from 18 to 83 mm) available
- Damage by cracks and plaster is bridged by BRICK PANELS bricks.
- Retention of masonry as heat accumulator
- All-round foaming provides lasting hold for brickwork preventing façade vibrations even for critical surfaces.
- Brickwork and thermal insulation in a single construction element
- CFC-free for environmentally-friendly manufacture
- Large selection of brick colours and formats.
- Exterior wall protected from cracks due to thermal stress and frost damage
- Interior environment: low energy penetration in summer prevents the dreaded sauna effect while in winter, heat remains in the house thanks to effective thermal protection.
- An economical solution for renovating and modernising old or prefabricated buildings
- An inexpensive alternative to standard brickwork façades on new buildings
- Start panel or rail with drip nose permitting water to flow off
- The BRICK PANELS system does not require foundations or excavation work.
- No visual panel joins thanks to skilled manual joining
- Variety of architectural design options



DF

RF

WDF

NF

Colour and design determine the character of your house.

Colour samples:

The colours of nature

Red, dappled, yellow, brown, white BRICK PANELS bricks. Apart from the colour, the character and allure of a stone are also determined by its surface finish and size.

Architecture, regional customs and personal taste determine the selection of a brick also as regards the quality of its surface properties.

DF format 240 x 52 x 17 mm

This slim format has been the most widely used since the introduction of standardisation – good surface effect.



RF format 240 x 65 x 17 mm

The beautiful old German traditional format – pleasantly calming effect.



NF format 240 x 71 x 17 mm

The economical standard size with a dominant effect.



WDF format (hand-moulded) 210 x 65 x 20 mm

For a special appearance – rustic and elegant.



2435 - red, deep-pitted, sanded



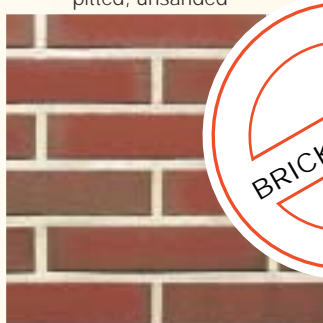
2335 - red-dappled, deep-pitted, sanded



2240 - yellow, tinged, shallow-pitted, unsanded



3721 - pearl-white, rustic pitted



2303 - Westerland, red-dappled, flamed, smooth



2216 - yellow, tinged, pitted, white-sanded



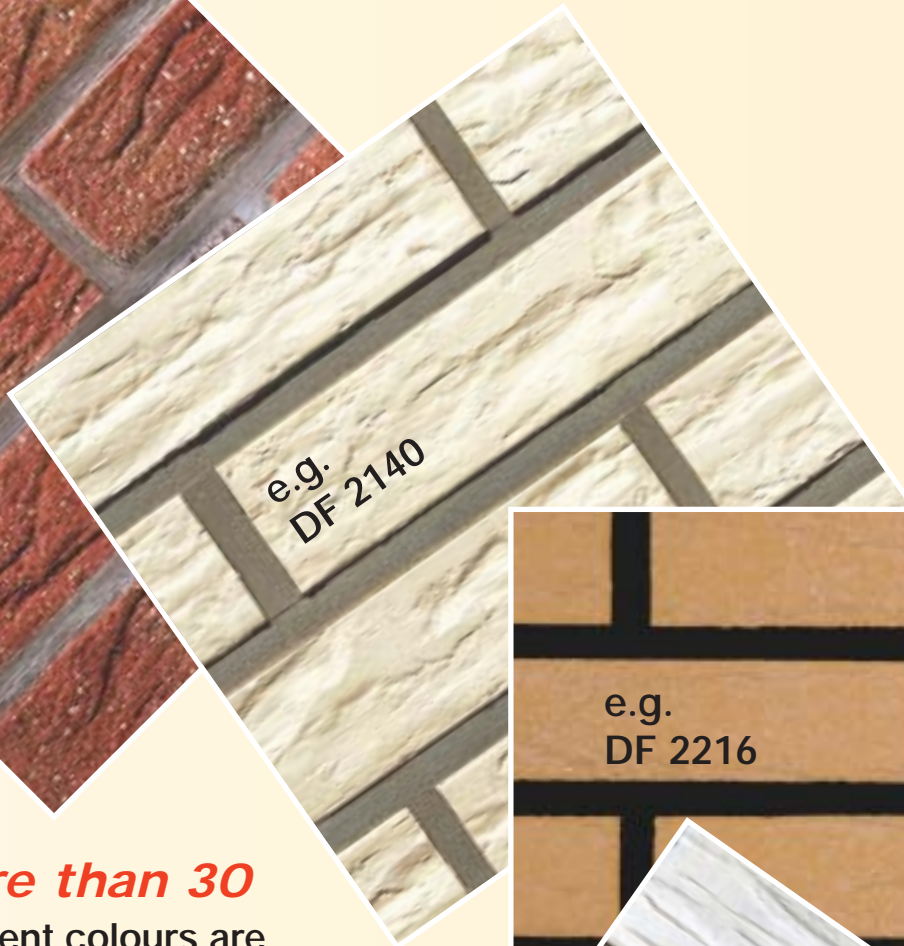
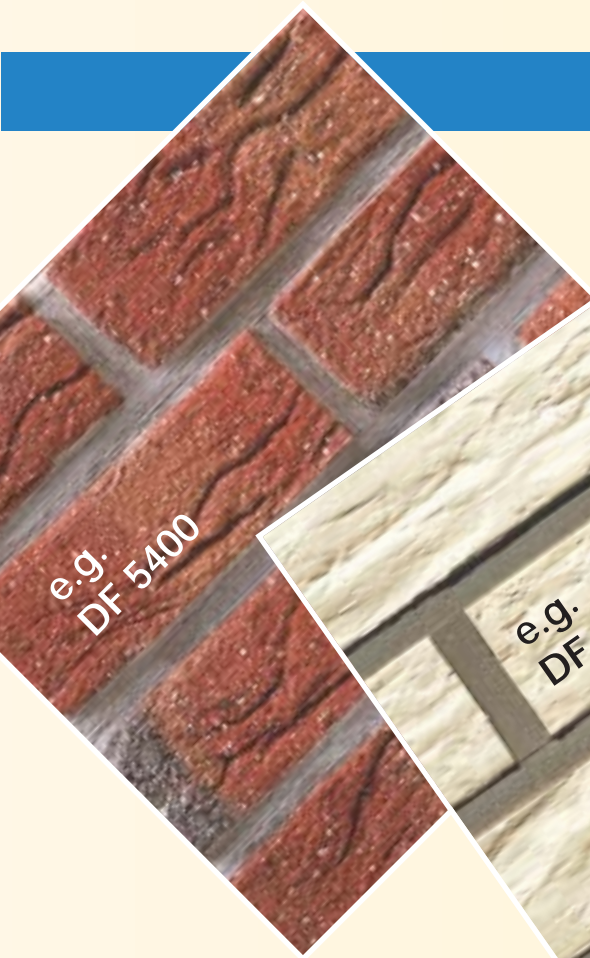
2116 - cream-white, pitted, sanded



2215 - bronze, deep-pitted, sanded



Colours . . .



More than 30
different colours are
available in various shapes
and sizes.



Our selection of brick products are made of kiln-baked natural clay. Everything possible is done to guarantee consistency and colour. Minor deviations in colour can however arise. Graphics and samples are approximate.

. . . to suit your house

Individual designs . . .



DF 3721



DF 2215



DF 2215



DF 2215



DF 2116

DF 5400



NF 8116

. . . with BRICK PANELS

Two-tone
- why not?
DF 2116
DF 2335



Some examples of the great variety offered

Everything for experienced amateurs:

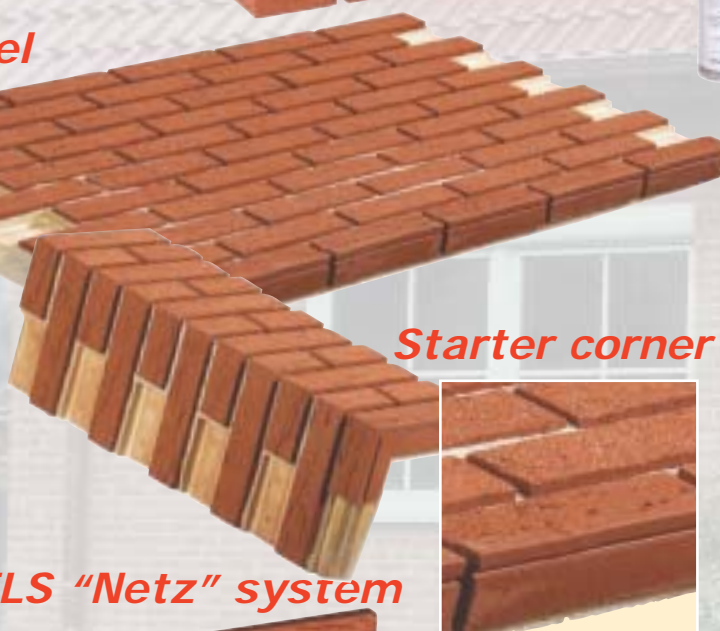
BRICK PANELS PUR-less



Starter panel



Starter corner



BRICK PANELS PUR-less
System thickness: 14-20 mm
(without insulation)

BRICK PANELS "Netz" System
Thickness: 9-14 mm
(without insulation)

BRICK PANELS system 40:
Thickness: 40 mm (17 mm brick
tile + 23 mm PUR insulation)

BRICK PANELS system 60:
Thickness: 60 mm (17 mm brick
tile + 43 mm PUR insulaton)

BRICK PANELS system 80:
Thickness: 80 mm (17 mm brick
tile+63 PUR insulation)
(very insulation) – extensible to
90 and 100 mm thicknes
(best insulation)

BRICK PANELS "Netz" system

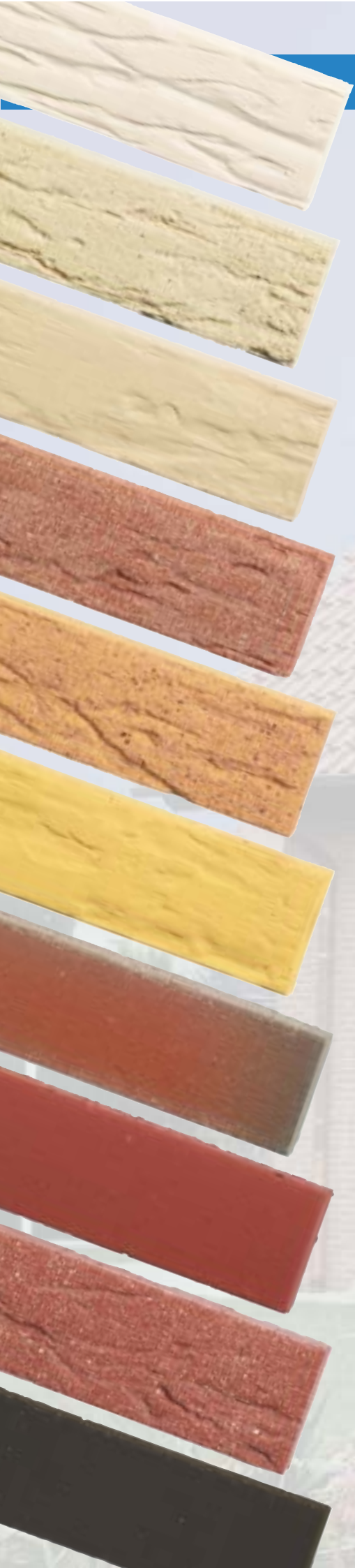


All BRICK PANELS elements are custom-manufactured



*Elements
for any area*





Installation: so fast, safe and easy.

Thanks to exact co-ordination of individual elements, installation of the BRICK PANELS system is unbelievably easy.

First of all, the BRICK PANELS starter panel or rail is secured. The system does not require any foundations which also dispenses with excavation work.

The BRICK PANELS wall elements and prefabricated corner elements for the building in question are affixed directly and secured safely and permanently using special wall plugs.

An all-round foam cavity is formed between the elements.

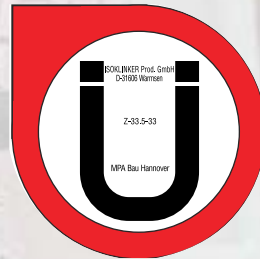
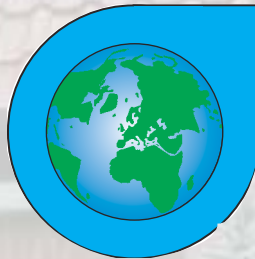
After foaming out, this guarantees a flush connection between elements as well as all-round insulation in all butt joints.

Finally all of the elements are joined manually.

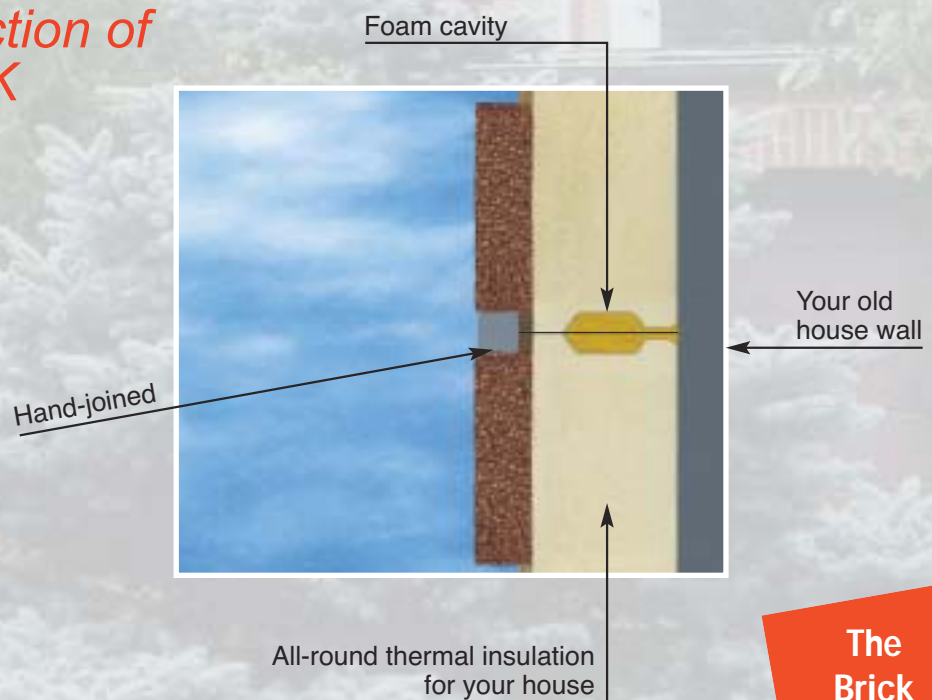


A rounded product:

*Improve your house
Insulate your house
Increase the value of your house –
Everything from a single source
with **BRICK PANELS** systems*



*Cross-section of
the **BRICK
PANELS**
element:*



**The
Brick
Panels**

Tested quality for your safety.

With its various product groups, The BRICK PANELS is successfully operational in Europe. The durability of products as well as the application of high-quality materials is a priority of our corporate philosophy.

Increasing demands placed on saving energy, reducing pollutants emitted into the air and saving fossile resources is always taken into consideration as our products undergo further development.

The BRICK PANELS subjects its products to on-going quality tests by official state material testing institutes.

The quality and function of our thermal insulation composite systems are meanwhile acknowledged in Europe



Avail of our local info service.

As an authorised partners, we are delighted to supply you with more detailed information on the BRICK PANELS system.

Our customer service facilities include drawing up detailed fixed-price quotations.

Simply complete the enclosed info card and send it off today.
Or phone us directly for more information.

Your authorised partner:

FOURWAYS ML, United Kingdom

TOPAAS LTD, United Kingdom

www.brick-panels.co.uk

Please complete the reply card and return it to us.

Info Card

- ☐ I would like a non-binding consultation by phone.

My tel. no. _____

_____ Date

_____ Time

- ☐ I would like a consultation at home on:

- ☐ Please phone to arrange an appointment.

- ☐ Including prices for the DIY set

My address:

Name: _____

Address: _____

Postal code/Town: _____

Tel no.: _____

Please affix stamp here.



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Solutions without foundations.

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