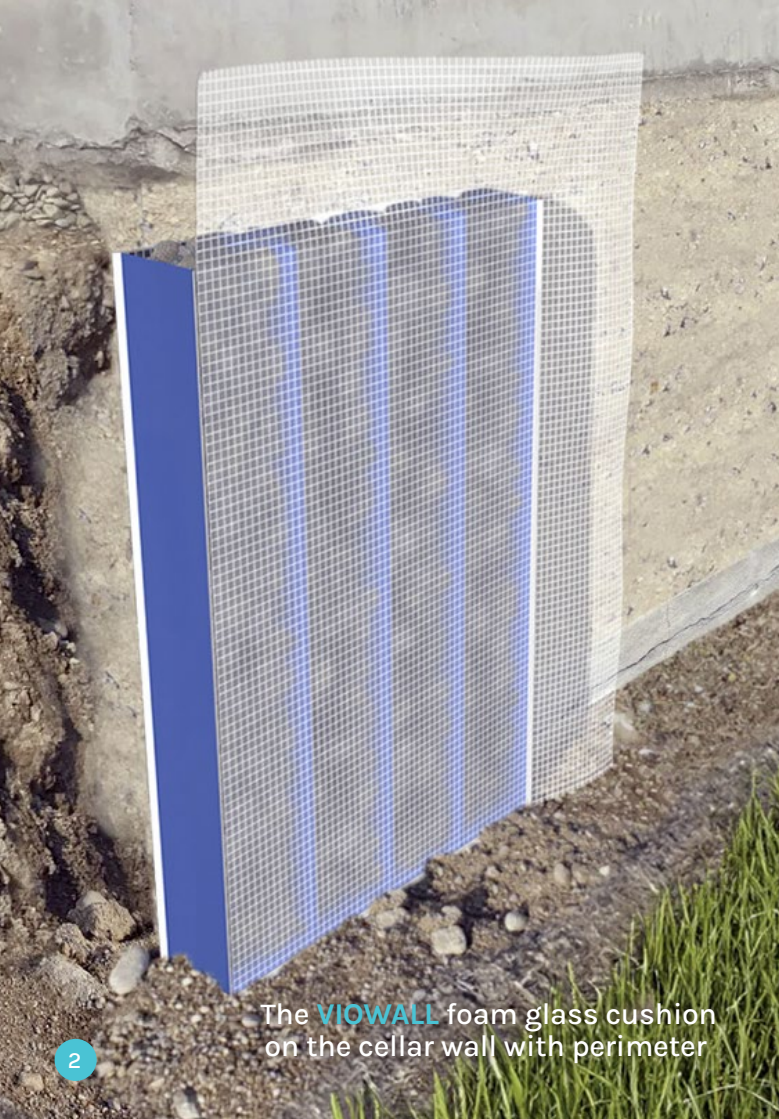




VIOWALL
Building Protection



The **VIOWALL** foam glass cushion on the cellar wall with perimeter

Damp building basements? Not with us!

Damp building basements? Not with us! In the often gloomy world of damp cellars – we know the stories only too well – we want to provide lasting relief with our solutions.

Our special **VIOWALL** cushions filled with foam glass not only offer an efficient method of drying rooms, but also prevent dampness. This is real upcycling that not only protects the environment, but also transforms your cellar into a permanently dry and healthy space.

A cellar that delivers what it promises:

- No constant refurbishment
- No complex, expensive installation measures
- Permanently dry – with minimal effort

Whether our product is installed in older historic buildings or modern new buildings, **VIOWALL** ensures that moisture damage is a thing of the past.

And the best thing about it:

- You save time and money
- You make a contribution to sustainability and environmental protection

So why settle for dampness when you can simply get rid of it?

Let's take the path to a dry future together – reliably, sustainable and efficient.

With warm regards

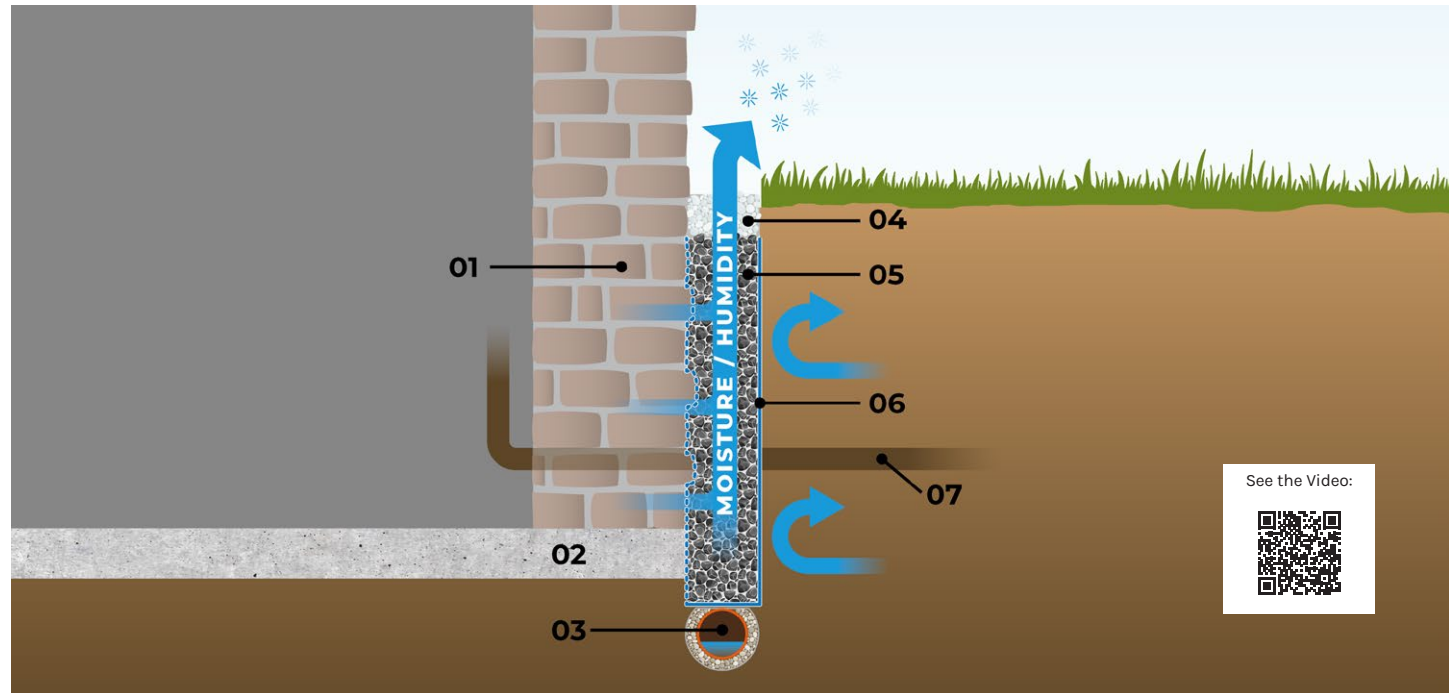
Yours, Michael Viol

This brochure
as a PDF file:



THIS IS HOW **VIOWALL** WORKS

VIOWALL works exclusively with “**VIOWALL** premium foam glass”, “geotextile cushions” and earth pressure. This creates an impenetrable moisture barrier on the exterior wall, which is effective immediately after installation due to natural physical processes. The foam glass is in direct contact with the damp wall through a grid on the front of the cushion, ventilating and drying it. This allows the water in the walls to be absorbed by the foam glass and drained away through evaporation. The protective and water-repellent backing prevents moisture and water from penetrating the cushions. A wing to the next cushion seals the contact sides completely and hermetically.



01 WALLS WITH CRACKS, HOLES,
PROJECTIONS AND RECESSES

02 FOUNDATION / FLOOR SLAB
03 DRAINAGE (OPTIONAL)
04 FINE GRAVEL COVER

05 **VIOWALL** FOAM GLASS CUSHION
06 REAR SIDE AS MOISTURE BARRIER
07 PIPEWORK

See the Video:



DETAILS OF VIOWALL

THE FULL PROTECTION PROVIDED BY FOAM GLASS CUSHIONS OFFERS YOU UNIQUE ADVANTAGES

The foam glass cushion in 3D:



MODULAR

The **VIOWALL** consists of individual flexible cushions made of geotextile, which are filled with foam glass granulate. These cushions enclose the foundation walls and thus form an impenetrable barrier. Unlike conventional solid panels, **VIOWALL** can be customized to any conceivable architecture.



EASY TO INSTALL

VIOWALL foam glass cushions are easy to handle and quick to install.

Expose the wall, insert (20 – 30 m2 per day), fill the shaft, cover – done!

No need for chemical treatment, painting, sawing, gluing, drilling or bubble wrap.



SERVICE-FREE

VIOWALL is completely service-free and preserves your building's integrity for generations.



100%

free from rodent
infestation



100%

water protection



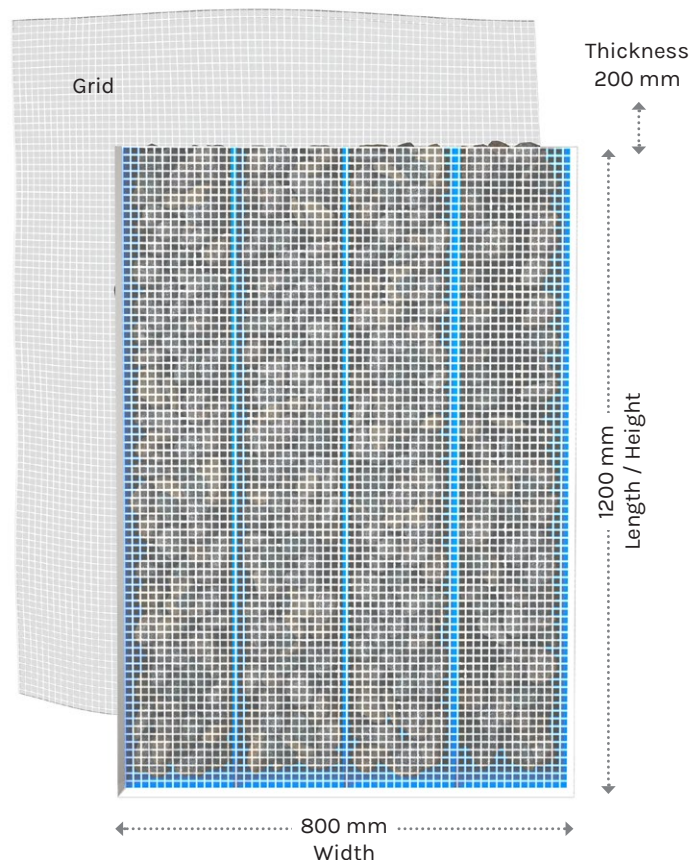
DIN 18533

compliant



A1

incombustible



01 EXPOSURE OF THE WALLS

Firstly, the building walls are exposed so that they can breathe freely again. The shaft must be excavated at least 50 cm wide and 20 cm deeper than the floor slab. In the event of strong water pressure, the shaft is excavated 50 - 80 cm deeper to stop the flow of water. This also works on slopes.



BRF Baugenossenschaft Reichsbahnwerk-Freimann e.G. in D-Munich | Refurbishment of basement walls over 168 m long and 2.6 m deep

02 INSTALLING

VIOWALL

VIOWALL is installed with the open grid structure facing the building wall. As an option, **VIOWALL** can be installed up to 50 cm above the ground as a simultaneous perimeter insulation and moisture barrier for the ground floor. **VIOWALL** is absolutely thermal bridge-free. One foam glass cushion is placed next to the other and joined seamlessly to the outer sashes. The head sash is then placed straight onto the filled cushion and further onto the house wall. No gluing required.



03 FILLING THE SHAFT

Then fill the shaft with soil up to the top edge of the foam glass cushions. The rear wall of the cushions is positioned against the damp soil. The natural pressure of the soil stabilises and compacts **VIOWALL** on the building wall. **VIOWALL** now forms the new full protection.



The complete installation guide (PDF):



04 COVERING

In the case of solar and photovoltaics, the entire technology is integrated inconspicuously and protected in **VIOWALL**. A digital probe system can optionally be installed for functional testing and monitoring via smart-phone app.



APPLICATIONS & FEATURES

VIOWALL OFFERS NUMEROUS CUSTOMISATION OPTIONS FOR EVERY BUILDING PROJECT

The Technical
data sheet (PDF):



MORE FUNCTIONS – MORE BUILDING COMFORT

VIOWALL can be used as a **sheet pile** wall deeper than the floor slab, as **perimeter protection** 30-50 cm above ground and as protection and **insulation in the attic area**.



OPEN TOP INSTALLATION (OTI)®

Das Füllvolumen der einzelnen GlasschaumkissenThe filling volume of the individual foam glass cushions can be changed right up to the end, as the foam glass cushions are only closed after final installation. This means that unforeseen changes can be made quickly and easily on site and the foam glass cushion can be adapted to any conceivable building shape without any extra effort.



MULTI CELL TECHNOLOGY (MCT)®

VIOWALL foam glass cushions have four separately fillable chambers. This allows different quantities and sizes of **VIOWALL** granules to be used without them mixing. At the same time, the chamber walls reliably stabilise the foam glass cushions and prevent unwanted deformation.



OPEN MESH®

VIOWALL foam glass cushions can be installed on three sides – depending on the architecture. With the open grid structure orientated towards the wall, it enables direct contact between the building wall and the foam glass. The wall can breathe because the foam glass has a capillary-breaking effect and the foam glass cushion is the new full protection



FREE MATERIAL CHOICE (FMC)®

The materials from which the foam glass cushions are made can be customised in terms of shape and composition to suit the desired application.

Technical geotextiles, such as water-impermeable and diffusion-open glass fibre materials, are suitable.



WING CONNECT®

The wings on the *left-hand side* of the foam glass cushions allow a flexible and hermetic connection between the foam glass cushions. The *head wing* closes the cushion and is the watertight connection to the house wall.

VIOWALL IS SUSTAINABLE

UPCYCLING, SUSTAINABLE BUILDING, ECONOMICAL



100% BIO-COMPATIBLE

The foam glass used in **VIOWALL** cushions is a pure ore product. The quartz practically returns to its source.



LONG-LASTING

Once installed, our foam glass cushions protect your building reliably over the long term. Unlike conventional insulation materials such as foams and polystyrene, foam glass is durable and therefore does not need to be replaced periodically. This enables us to achieve an unrivalled product service life. **VIOWALL** is good for the environment and your wallet.



LOCAL PRODUCTION

Our foam glass is produced in many countries, allowing for shorter transport routes that not only save costs, but also further reduce our already low carbon footprint.



REUSABLE

If a **VIOWALL** foam glass cushion needs to be removed, e.g. due to renovation, the cushion can be reused immediately. Even if the cushion cover is torn during removal, the foam glass granulate inside can simply be filled into a new cushion and reused.



UPCYCLING

The foam glass used in **VIOWALL** cushions is made from recycled glass. A special feature is that unsorted, coloured waste glass is also used, which cannot be processed into new glass due to differences in tension between glass colours. Invented in the 1970s, it is considered to be one of the first upcyclings of waste worldwide.



RECYCLABLE

VIOWALL foam glass cushions are not only durable, but don't need to be recycled. The foam glass granulate can be reused as filling for new cushions.



NO WASTE AT ALL

200 million tonnes of construction waste are generated every year during the construction, renovation and demolition of buildings in Germany alone. The majority of this construction waste is hazardous waste and accounts for more than half of Germany's waste volume alone.

In contrast, the installation of **VIOWALL** foam glass cushions produces no waste or surplus material. In addition, no consumables are required.



NO CHEMICALS

Artificial insulation materials such as polystyrene contain toxic chemicals, including hexabromocyclo-dodecane, which are suspected of being carcinogenic. Material waste containing these so-called persistent organic pollutants is classified as hazardous waste throughout the EU.

VIOWALL uses foam glass instead and therefore does not use any chemicals, plastics or chemical treatments such as black paint.

This not only protects the environment, but also prevents toxic hazardous waste.

CONTACT

VIOWALL.GLASS

The Building Protection

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mentally friendly
paper



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**bundespreis
ecodesign**

FEDERAL ECODESIGN AWARD,
Berlin - Germany

1st prize in Gold 2022 in the 'Product'
category

Prof. Matthias Held, ecodesign jury member:

“An amazingly simple and convincingly implemented solution for keeping foundation walls permanently dry. Like a breathing membrane, the foam glass cushions made with recycled glass form a closed barrier that dissipates moisture through evaporation and prevents waterlogging. An innovative area of application for this pioneering ecological material.”