Multi**Gips**

Simply **Gypsum Blocks**

Solid drywalls for domestic construction

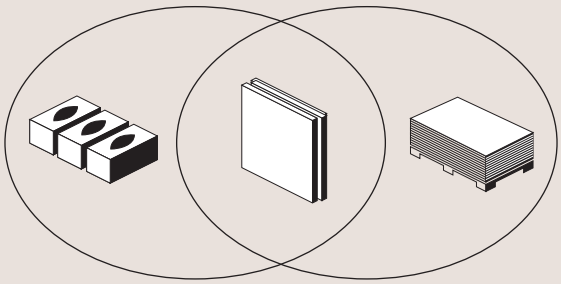
Simply **Straightforward**

Solid gypsum blocks are straightforward: Because of the many benefits that they provide as a system in the construction of internal walls, we are passionate about solid gypsum blocks for free standing walls. Of course, experts downplay this passion and just call it solid drywall: Solid because of the 100 per cent mineral gypsum blocks, which are up to 100 mm thick and solid all the way through. No studding required. Dry, because gypsum bonding compounds are all you need to bind them together and the surface is ready in no time at all. In summary, it‘s dry because no additional interior plaster is required. Even you have to admit, it‘s enough to get your heart racing.

Solid gypsum blocks EN 12859
For single- and double-leaf non-load-bearing partition walls
For creating spaces, sound insulation and fire protection
Highly efficient construction of shaft walls

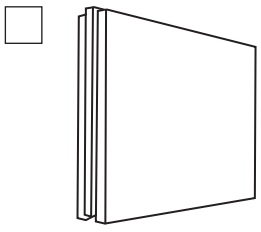
Simply **Best System**

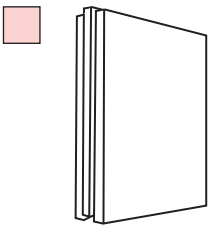
As hybrid walls, solid gypsum blocks are a combination of the best parts of robust solid construction and lightweight drywall. From this perspective, it's the most economic form of modern room construction. Taking a closer look, the effective sound insulation and relatively lightweight wall structures are particularly welcome in domestic construction. This means that you don't always have to have heavy masonry. At the same time, the fundamentally solid quality of gypsum blocks adds value to properties and shows them in a better light. It may be just a wall, but you will want to take a second look.

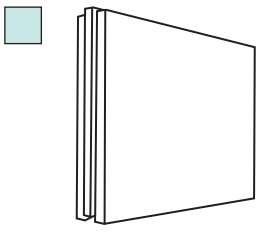


Solid drywall system

Solid high quality interior rooms with solid wall building material
Dry wall construction without interior plaster
Comparatively low mass per unit area







GYPSUM BLOCKS

M class

Purpose of use	Universal blocks for partition walls up to 40 dB* and EI 180-A
Feature	Natural white
Density class	Medium density (M)
Density	approx. 850 kg/m³
Thicknesses	60, 80 und 100 mm
Format LxH	666 × 500 mm

GYPSUM BLOCKS

D class

Purpose of use	Sound insulation blocks for partition walls up to 50 dB* and EI 180-A
Feature	coloured red
Density class	High density (D)
Density	up to 1,400 kg/m³
Thicknesses	60, 80 und 100 mm
Format LxH	400/500/666 × 500 mm

GYPSUM BLOCKS

MH class und DH class

Purpose of use	Hydrophobic, intended for domestic kitchens and bathrooms, ≤ 5% water absorption after 2 h complete immersion in water
Feature	coloured blue

* Tested and evaluated in acc. with ISO 10140-2 and ISO 717-1

Simply **Productive**

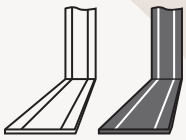
Solid gypsum blocks are doers: Easy to work with, no fuss and not unnecessarily complicated. This is mostly due to the fact that the walls can be reliably built with just a handful of components: the blocks themselves, gypsum-based system components and elastic interlayers. That‘s all you need in principal: You can already start putting your first solid gypsum wall together in your head.

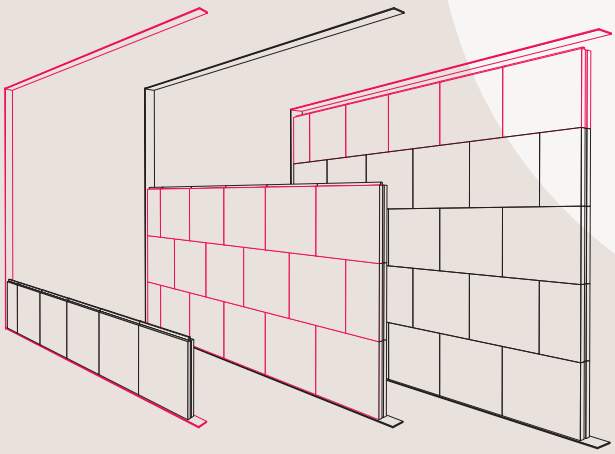
Gypsum-based adhesives
For connecting and jointing components made of solid gypsum blocks. As MultiGips ClassicWhite 90, SuperWhite 120/200 and Hydro 90. No contribution to fire (A1).

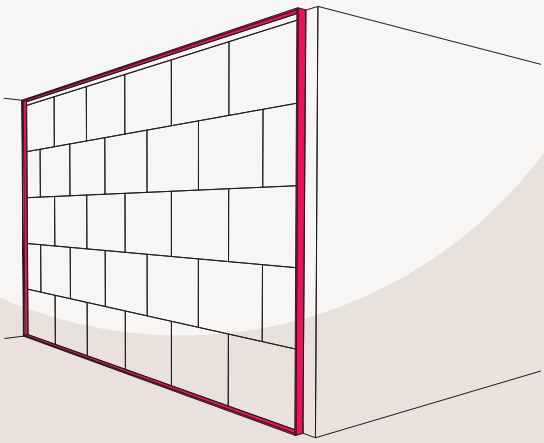
Filler
For filling in ceiling joints and frames in components made of solid gypsum blocks. As MultiGips FG 70 and FG 700 Special Filler for components with demanding sound insulation requirements. No contribution to fire (A1).

Gypsum smoother
As MultiGips SG 90 Uni skim coating for jointing components made of solid gypsum blocks (optional). No contribution to fire (A1).

Elastic interlayers
Solid gypsum blocks form an acoustically effective unit with impact point optimised edge mounting, a decoupled partition wall and maximised insulation of direct airborne and structure-borne sound. As the MultiGips AkustikPro 120-3 made from white heavy-duty PE foam or the bitumen-based MultiGips AkustikBit 1000.







Simply **Clear**

MULTIGIPS SYSTEM WALLS single-leaf

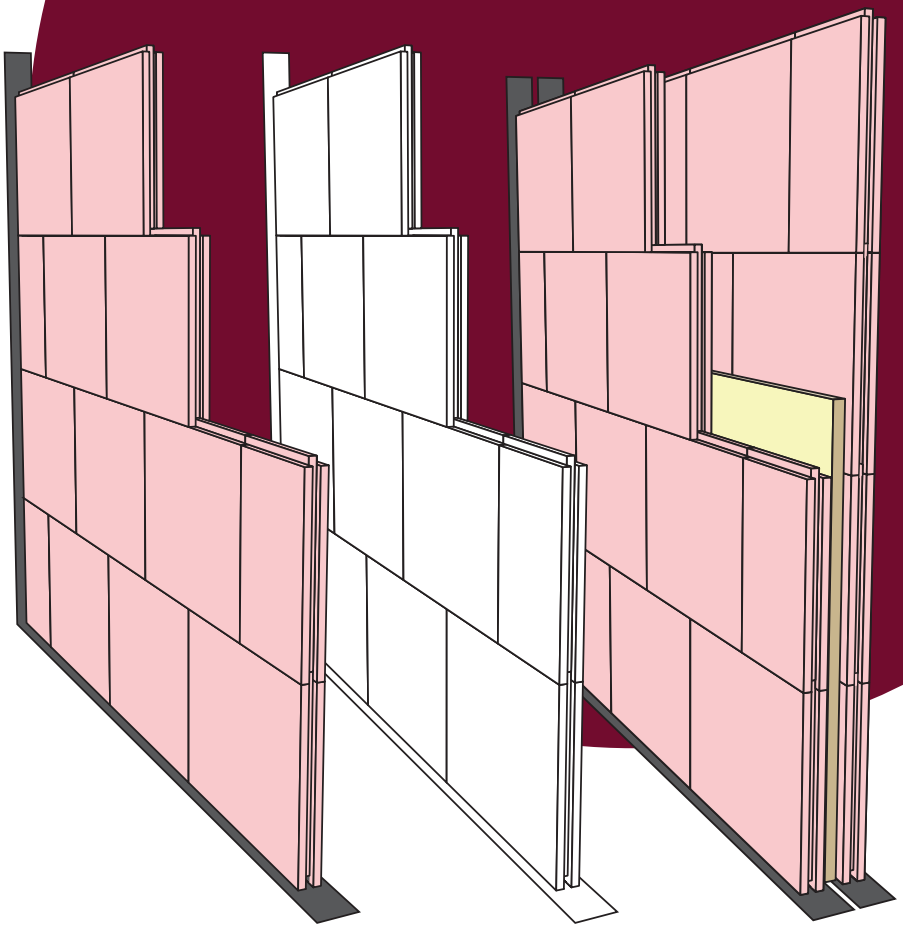
System wall	WM.80	WM.100	WD.80-Rmax	WD.100-Rmax	WD.100-R50
Thickness (mm)	80	100	80	100	100
Wall thickness (mm)	80	100	80	100	100
Density [kg/m³]	approx. 850	approx. 850	approx. 1,400	approx. 1,200	approx. 1,400
Mass per unit area (kg/m²)	approx. 70	approx. 87	approx. 114	approx. 120	approx. 146
Sound insulation Rw (dB)	37	40	44	46	50
Fire resistance	EI 120-AB	EI 180-AB	EI 120-AB	EI 180-AB	EI 180-AB

URBAN FIT

Texts for invitation to tender

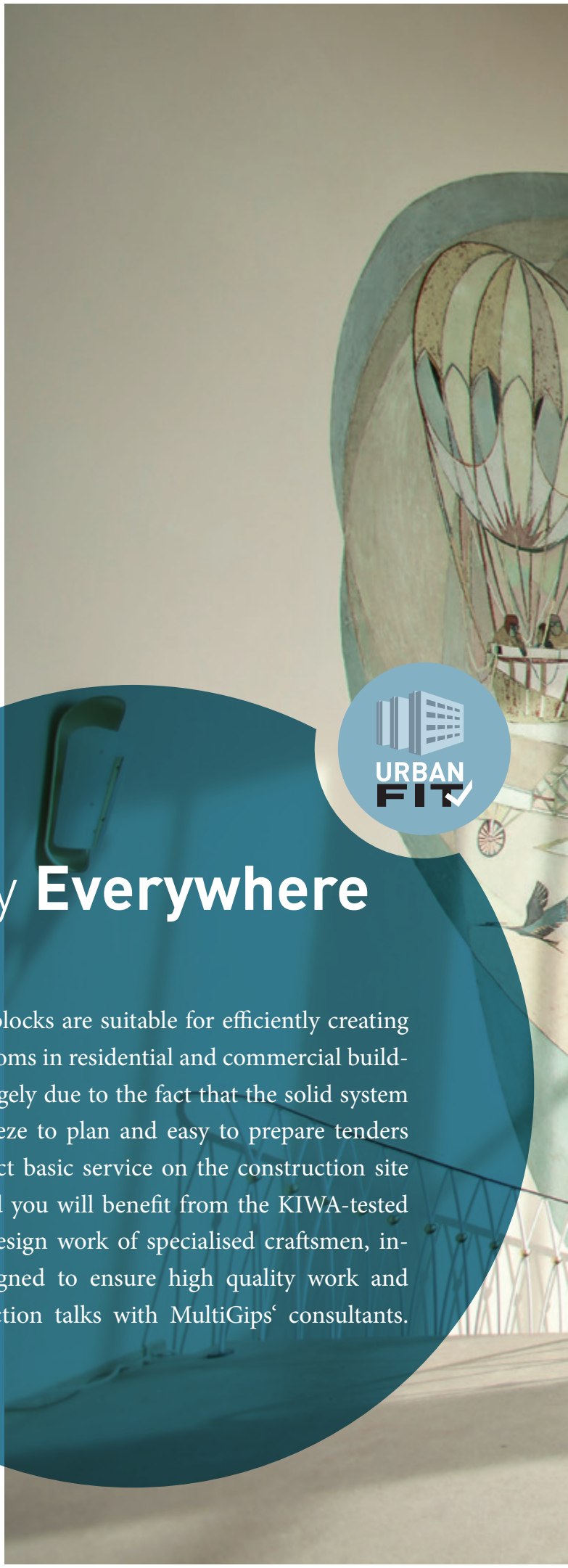
Free of charge at **ausschreiben.de**

(only in German)



MULTIGIPS SYSTEM WALLS double-leaf

System wall	WD.60.60	WM.80.80s	WM.80.80L
Thickness / wall structure (mm)	60/25/5/60	80/40/10/80	80/80/20/80
Wall thickness (mm)	150	210	260
Density [kg/m³]	approx. 1,200	approx. 850	approx. 850
Mass per unit area (kg/m²)	approx. 149	approx. 144	approx. 148
Sound insulation Rw (dB)	62	62	68
Fire resistance	EI 30-AB	EI 120-AB	EI 120-AB



URBAN FIT

Simply **Everywhere**

Solid gypsum blocks are suitable for efficiently creating high-quality rooms in residential and commercial buildings. This is largely due to the fact that the solid system walls are a breeze to plan and easy to prepare tenders for. Don‘t expect basic service on the construction site though. Instead you will benefit from the KIWA-tested and certified design work of specialised craftsmen, instructions designed to ensure high quality work and onsite construction talks with MultiGips‘ consultants.

Simply **Quick**

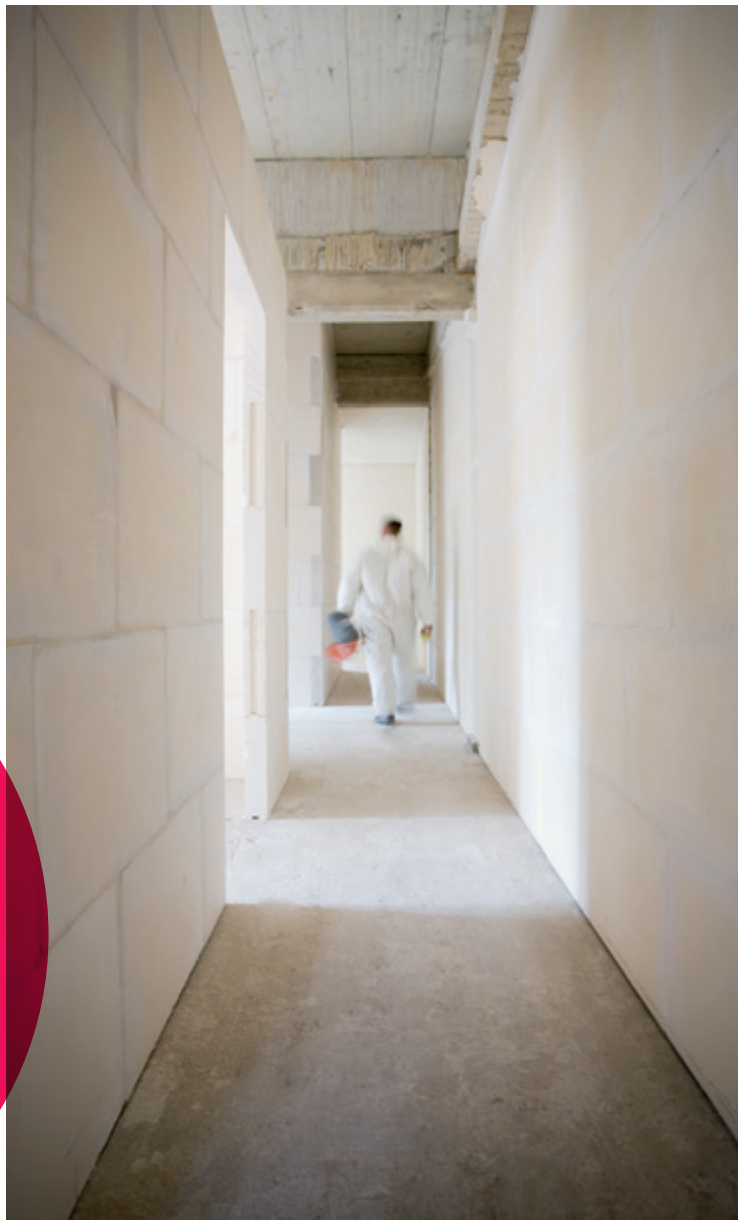
No matter whether it's at the same time as building the shell, or just before the building is completed, solid gypsum blocks are easy to integrate into any stage of the construction process. They work well with air conditioning, ventilation, heating and electrical systems. The gypsum is solid, but easy to work with, and is quick to adapt to any kind of basic or detailed assembly work. One thing that gypsum blocks have no time for is waiting for the right weather. Using hydrophobic blocks or hydro-footing means that you don't have to rely on the weather when building walls. This means that the internal fit out can be started before the building envelop is closed in, allowing the building programme to be shortened. And finally, because the walls aren't plastered, all of the work stays on-site. After all, downtime is a foreign concept to you, right?

Easy to build and a flexible part of the construction process

Simplified organisation of construction sites and craftsmen

Components are impossible to mix up, eliminating conflict during basic and detailed assembly work

Surface ready after sealing gaps and smoothing



Not dependent on the weather and more protection against rising damp: Components made from solid gypsum blocks can also be built using the MultiGips HydroSockel as hydro-footing made of foamed glass. The footer elements also improve the thermal insulation at the base of the component and prevent thermal bridges at floor panels or ceilings through unheated rooms.

High **Quality, living** Space

SOLID
- 100 % mineral
- 100 % robust
- 100 % precise dimensions

DRY
- No mortar
- No interior plaster
- Surface ready after sealing gaps

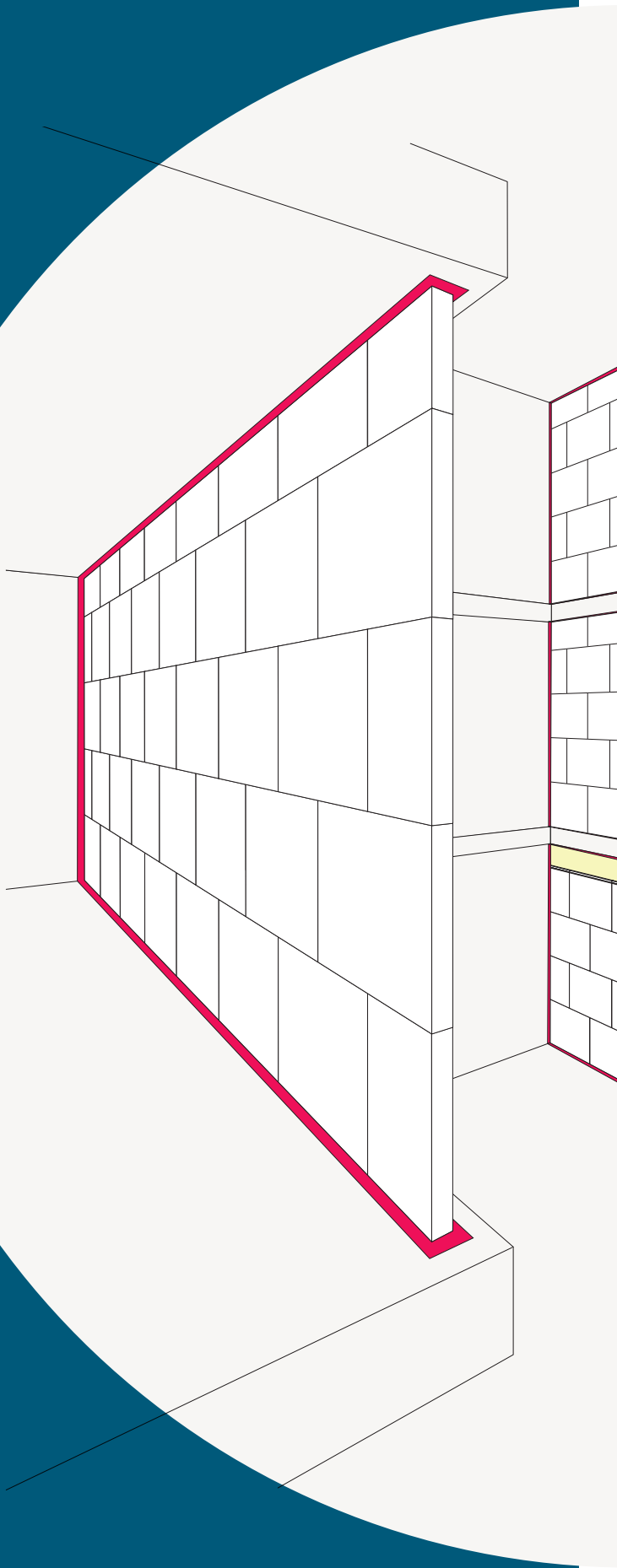
HYBRID
- Solid construction, but low mass per unit area
- Lightweight, but no studwork or cavities

SLIM
- 60, 80, 100 mm thicknesses
- Maximum space utilisation

QUICK
- Independent installation alongside the construction of the building shell
- With optional hydro protection

SOUND INSULATION
- Elastic interlayer for modern sound insulation which can only be achieved using solid components that are three times as heavy with fixed joints

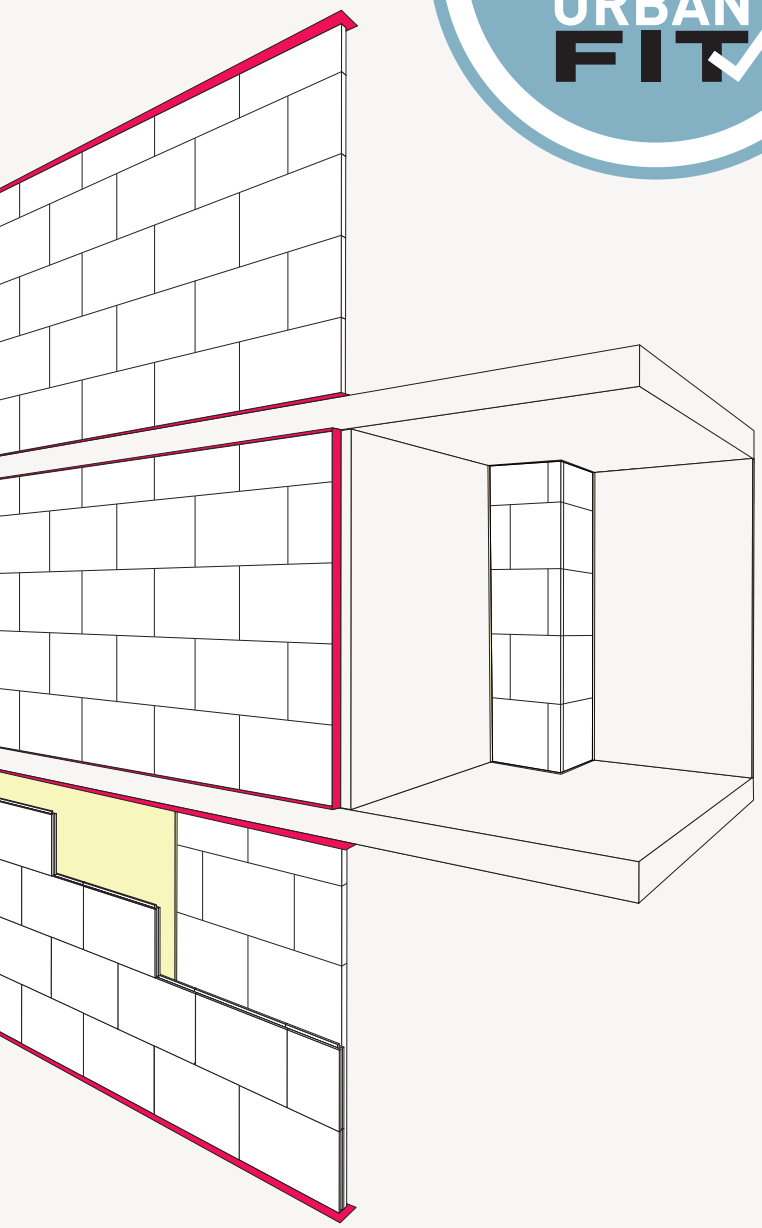
FIREPROOF
- Non-combustible, Class A1
- Classified up to EI 180
- Fire resistance on both sides of shaft walls without separate construction work



URBAN FIT

130 YEARS

made in germany



WYSIWYG
- Homogeneous components without „a life of its own“
- Fixings at any point, even heavy bracket loads
- No impact drilling, no special dowels

FLEXIBLE
- Floorplans with no structural constraints
- Wall openings can be sawed out easily after construction

COMPATIBLE
- Low conflict basic and detailed assembly work
- No hidden components

HEALTHY
- Biologically safe
- Emission tested

SUSTAINABLE
- Resistant to ageing
- Duration of use more than 50 years
- Recyclable
- No downcycling
- Extremely low emissions during production

UNIVERSAL
- Traditionally as single-leaf and double-leaf partition walls
- Highly efficient as shaft walls
- Proven to be comparable to walls that are 220 kg/m² heavier as installation walls
- Ideal for independent wall linings
- Also as classified EI 90-M firewall
- As highly efficient cladding for columns for fire protection
- Also as safe, lead-free radiation protection blocks in X-ray facilities

Maximum space utilisation
Slim structures, more floor space, higher returns
Lightweight construction with simplified structural analysis
Outstanding performance in terms of sound insulation, fire protection and stability

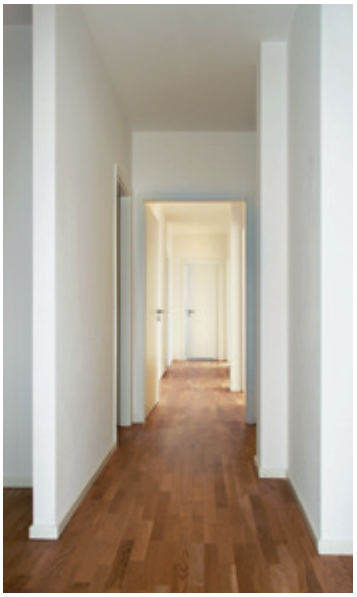
Simply **Slim**

Solid doesn't have to mean corpulent. This is particularly true for solid gypsum blocks, which are particularly slim at 60, 80 or 100 mm. An 80 mm partition wall usually is thinner than conventional masonry with plaster on both sides - enough space to have a significant impact on the value of floor space. This is a rare case where a slim figure can lead to a fat wallet.

Simply

saved

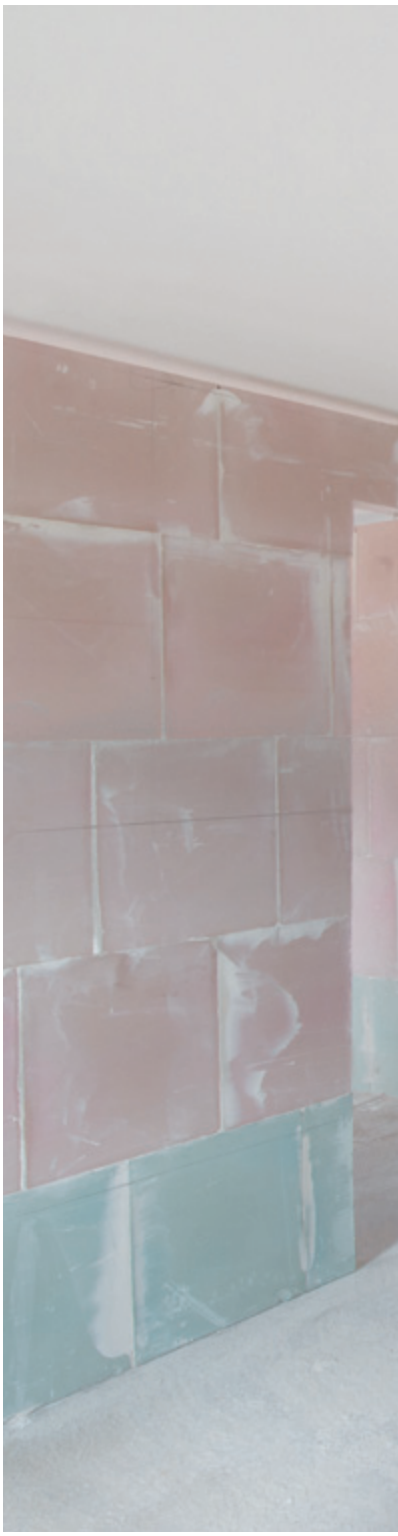
a lot of space



60 mm

80 mm

100 mm

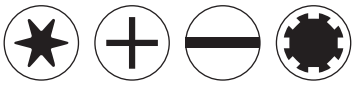


Simply **Comfort**

Universal fixing, repair and opening: Solid gypsum blocks are not challenging for users and do not require a great deal of specialist knowledge from service technicians. The surface and cross-section of each wall have the same properties. Even heavy bracket loads can be fixed with standard dowels. Gypsum blocks are extremely easy to repair: Fillers integrate completely into the component and gypsum smoothers adapts surfaces perfectly. Wall openings can also be rearranged everywhere at any time and existing door openings are easy to expand - the best solutions for your age-appropriate building plans.

Flexibility and comfort

No limitations from grid dimensions, stud widths, cross beams
Even higher bracket loads with standard dowels
Wall openings at any location - even after construction



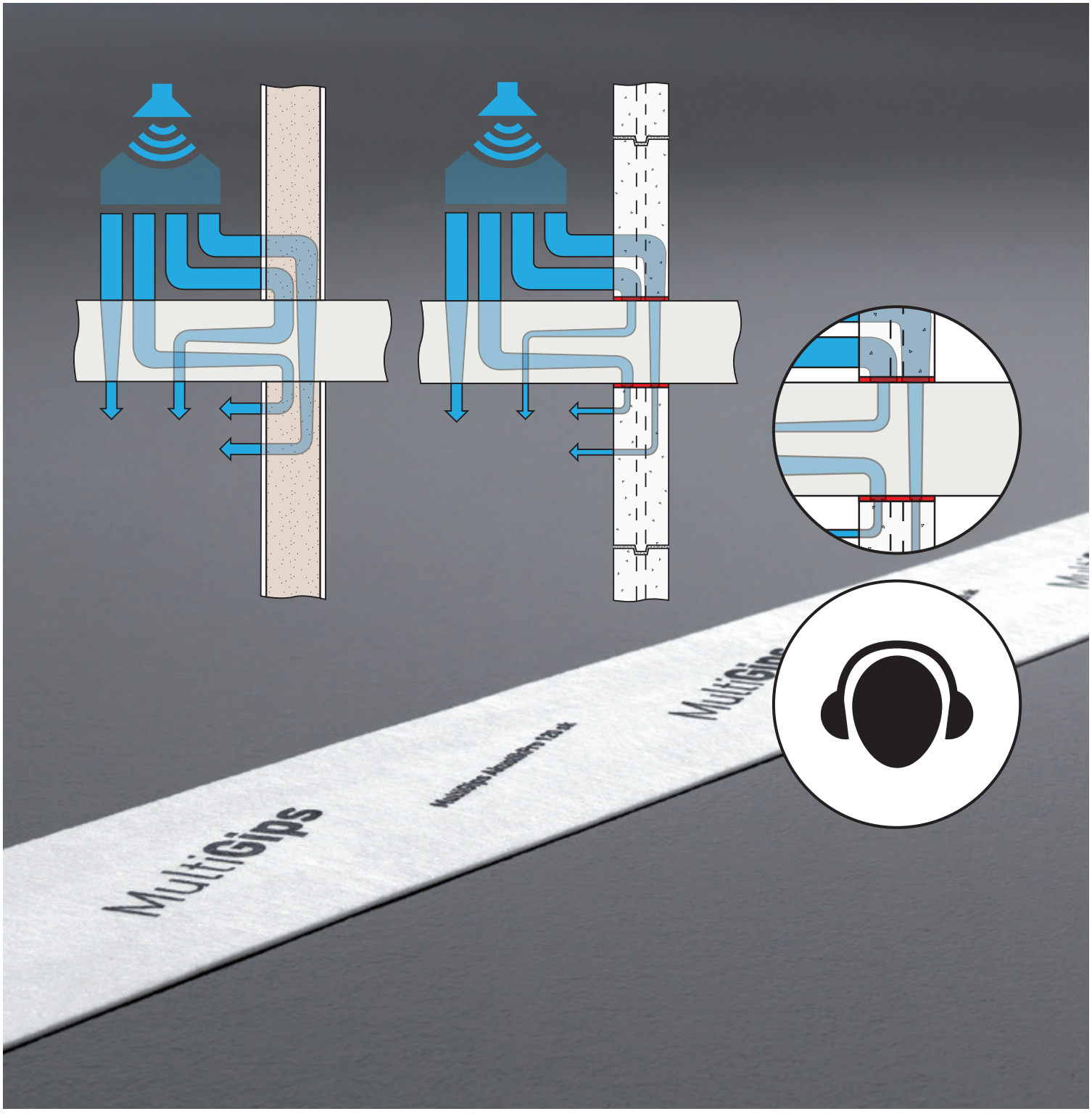
Simply **Quiet**

ISI
interlayer
sound
insulation

Future-proof sound insulation has to deal with challenging impact points now. For some time, gypsum block partition walls have countered this issue with ISI. The technical basis of Interlayer Sound Insulation comprises elastic interlayers, which join with the blocks to form an acoustically effective unit with impact point optimised edge mounting, a decoupled partition wall and flanking and direct sound insulation. This means that ISI leads to hardly any impact on the insulation provided by ceilings and walls between apartments in multi-storey apartment buildings. This makes it easy for you to incorporate sound insulation into your house.

Modern sound insulation

- Elastic impact point optimised component joints
- Effective against direct airborne and structure-borne sound
- Also proven to be suitable as installation walls



ISI – modern sound insulation

The sound insulation between two rooms depends on the installation situation of the components involved in transmitting the sound. Gypsum blocks only make a small contribution to the transmission of sound via side paths because they are effectively decoupled from adjacent components thanks to the elastic interlayer.

EI 180

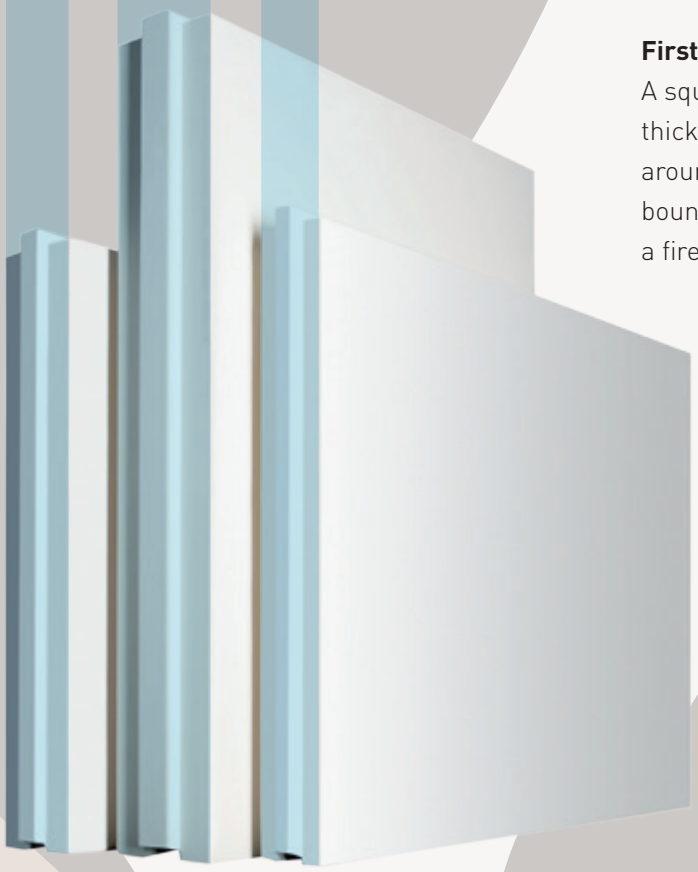
100 mm
Proportion of crystalline bound water around 19 litres

EI 120

80 mm
Proportion of crystalline bound water around 15 litres

EI 30

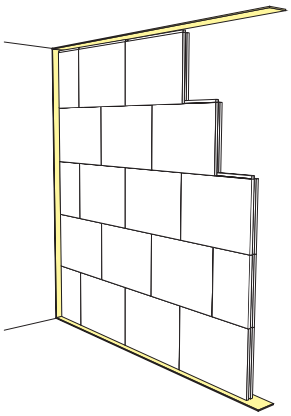
60 mm
Proportion of crystalline bound water around 12 litres



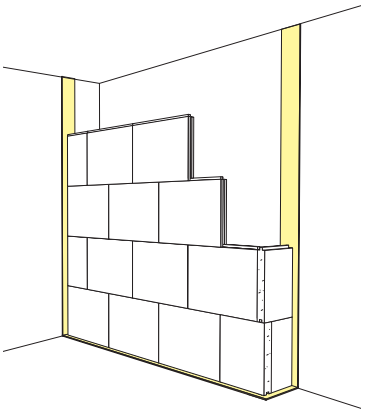
First class fire extinguishing
A square metre of 100 mm thick partition wall contains around 19 litres of crystalline bound water which is released in a fire to protect the component.

Simply **Free**

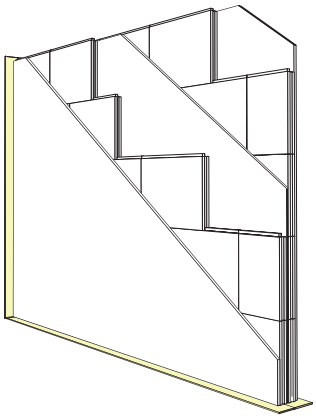
Effective fire protection with gypsum blocks is based on the following assumption: the more solid the wall, the less risk there is for components, lines and installations. It is also true that gypsum blocks are perfectly suited for shaft walls - no need for special designs and lengthy work to access the difficult to reach interiors.



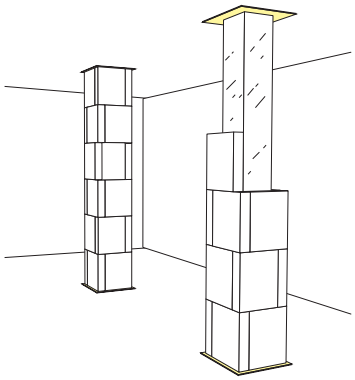
For partition walls with fire protection requirements up to EI 180-A



Seal shafts properly and enclose them for fire protection purposes



Tested and certified design:
MultiGips Brandwand EI 90-M



Fire resistant cladding for wood and steel columns on up to four sides

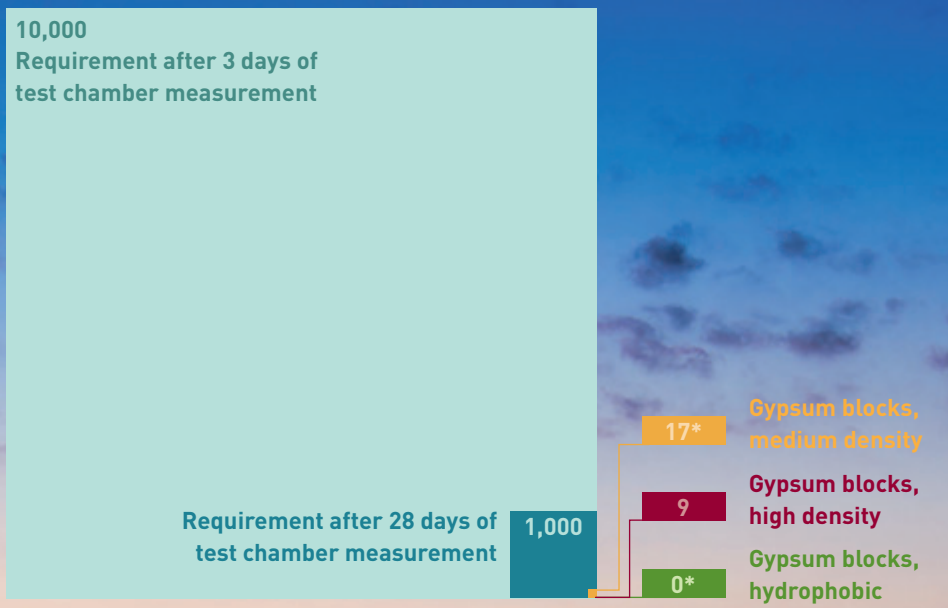
Simply **Healthy**

Whether or not the air in buildings makes people ill is an issue that is gathering more and more design and legal attention. This means that afflicted individuals shouldn't hold their breath until these health issues are sorted out. Pure gypsum partition walls, on the other hand, let you breathe easy: Neither gypsum blocks nor any gypsum-based or construction-related system components contain any worrying harmful substances. This means that costly disputes related to illnesses that were caused by construction materials could be a thing of the past.

People are spending more and more time in enclosed areas. The quality of the air in these areas therefore has a significant impact on our well-being and health. Biologically safe materials have hardly any impact on the air.

Certified low level of hazardous substances
System walls for certifiable healthy living concepts
TVOC level well under legal limits
Free from carcinogens and formaldehyde

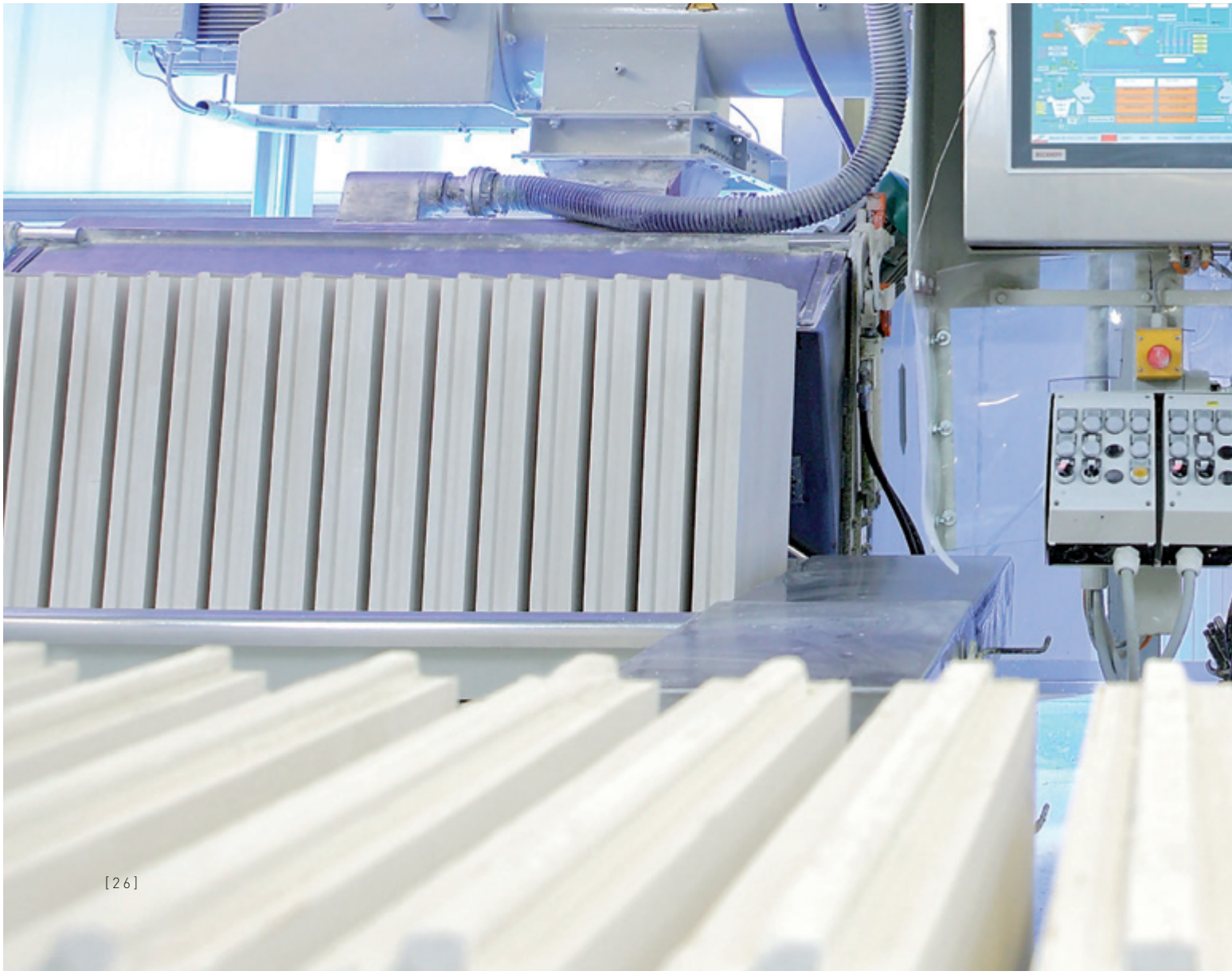
Total VOC of Gypsum Blocks according to the AgBB scheme
testing conducted by the Fraunhofer Institute for Building Physics IBP,
ISO 16000-6/-9/-11, in µg/m³



* Measurements on day 7 in µg/m³
AgBB (Ausschuss zur gesundheitlichen Bewertung von Bauprodukten)
= Committee for Health-related Evaluation of Building Products

Simply **Sustainable**

Gypsum blocks not only meet the functional requirements for modern construction materials, but also society's modern demand for resource-efficient and sustainable construction. This includes sourcing raw materials domestically and minimising CO_2 emissions during the manufacturing process, conserving gypsum resources, using secondary raw materials and recycling as much of the gypsum as possible at the end of the blocks' service life. The ecological parameters of gypsum blocks were independently verified and have been published in environmental product and system declarations for transparency and comparison.



Functional sustainability

Mineral construction material, produced in a way that conserves resources and protects the environment
Much lower CO_2 emissions than other construction materials
Complete gypsum recycling possible

Environmental product declaration ISO 14025 and EN 15804

www.multigips.de/download/3844/

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