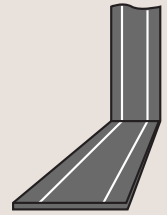


# MultiGips

## Technical data sheet

Elastic interlayer **AkustikBit 1000**



### MAIN FEATURES

- Building material** Bitumen-based elastic interlayer for creating elastic connections between building elements of gypsum blocks and adjacent elements
- Properties** Bitumen-based elastic interlayer (bitumen-impregnated wool felt board)  
Density approx. 1,000 kg/m<sup>3</sup>
- Performance as building element** For decoupling of building elements of gypsum blocks  
For reducing direct and structure-borne noise  
Satisfies the requirements for construction materials of class B2 (normal flammability)  
The designations (abbreviated codes) for gypsum blocks DIN EN 12859 (for densities  $\geq 600$  kg/m<sup>3</sup>) according to DIN 4102-2 in connection with MultiGips AkustikBit 1000 are F 30-AB, F 60-AB, F 90-AB, F 120-AB and F 180-AB
- Special features** Certified low level of hazardous substances for improved interior air quality helps eliminate health risks.  
Fulfils the requirements for use in interiors according to the Federal Environmental Agency in the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety in the Federal Republic of Germany. Extremely low emissions.
- Documentation** **EN** [www.multigips.com](http://www.multigips.com)

## TECHNICAL FEATURES

Performance feature	Building material
<b>Width x length (mm)</b>	80/100 x 1,000
<b>Thickness (mm)</b>	3
<b>Material requirement per m<sup>2</sup> wall (m)</b>	1.3
<b>Colour</b>	Black
<b>Density (kg/m<sup>3</sup>)</b>	approx. 1,000
<b>Coating</b>	Self-adhesive on one side
<b>Finishing</b>	As strips
<b>Packaging unit</b>	50 strips of 1 m each; 50 m/package
<b>Reaction to fire</b>	B2, normal flammability (as installed)

## ORDER INFORMATION

Performance feature	Building material	
<b>Material number</b>	1075	1076
<b>Width (mm)</b>	80	100
<b>Packaging unit (m/package)</b>	50	50

## ENVIRONMENTAL DATA

Performance feature	Building material, building element
<b>Chemical characterisation</b>	Bitumen-impregnated wool felt board
<b>Performance</b>	
<b>Emissions of volatile organic compounds (mg/m<sup>3</sup> TVOC after 28 days)</b>	0 <sup>1)</sup>
<b>Carcinogenic substances (mg/m<sup>3</sup> after 28 days)</b>	0 <sup>1)</sup>
<b>Formaldehyde of emissions class (mg/m<sup>3</sup> after 28 days)</b>	0.002 (A+) <sup>1), 2)</sup>
<b>Persistence, bio-accumulation potential, toxicity</b>	No known skin or eye irritation or allergenic reactions to the product
<b>Toxicity</b>	-
<b>Carcinogenicity, mutagenicity and toxicity to reproduction</b>	-
<b>Bio-accumulation potential</b>	-
<b>Ecology</b>	Not biodegradable

1) Investigation report on emissions of volatile organic compounds from MultiGips AkustikBit 1000, Fraunhofer IBP 08.2012

2) Evaluation according to the French VOC ordinance according to investigation report, see above

## APPLICATION PRINCIPLES

**Site prerequisites** Building elements of gypsum blocks are primarily connected to adjacent building elements with an elastic connection using elastic interlayer and without masonry anchors, wall brackets or other rigid connection elements.

**Installation of elastic interlayer** The precise positioning of building elements of gypsum blocks is achieved by snapping a chalk line onto the floor slab along the path of the wall and following this line up onto the adjacent building elements with a plumb line.

The elastic interlayer MultiGips AkustikBit 1000 is affixed with gypsum-based adhesive for gypsum blocks (permits compensation for slight unevenness in the floor). The elastic interlayer can be cut manually or with a guillotine shear.

It must be ensured that

- exclusively MultiGips elastic interlayer is used,
- the interlayer is installed with tight butt joints and without cavities, and
- the strips are not plastered over (avoidance of sound bridges) or – otherwise –
- the covering plaster must be separated again directly at the adjacent building element with a separation cut.

## SAFETY AND DISPOSAL

**Notes on safe handling** No special measures are required if used properly. The product has normal flammability; do not store in the vicinity of open flame, heat or ignition sources.

**Disposal, waste management** Recovery or reuse, if possible. Disposal via controlled combustion or in authorised landfill.

## CALCULATION AND DELIVERY INFORMATION

On the basis of practical experience. Deviations due to changes to general conditions such as wall dimensions, room layout, type of construction, transport routes, etc. must be taken into account.

<b>System components</b>	<b>Unit</b>	<b>Material requirement</b>	<b>Delivery units</b> Form of packaging	Packaging unit
<b>Gypsum blocks</b> e.g. MultiGips M100	m <sup>2</sup> /m <sup>2</sup>	1	4.0 m <sup>2</sup> /package (= 12 pcs.) 8.0 m <sup>2</sup> /pallet (= 24 pcs.)	1 pallet (2 packages/ pallet)
<b>Elastic interlayer</b> AkustikPro 120-3/120-3 sk AkustikBit 1000	m/m <sup>2</sup>	1.3	25 m roll 1 m strips	4x 25 m rolls 50 m/package
<b>Gypsum-based adhesive for gypsum blocks</b> Adhesive ClassicWeiss 90 Adhesive SuperWeiss 120 Adhesive Hydro 90	kg/m <sup>2</sup>	approx. 1.0 – 1.5	25 kg bag	40 pcs./pallet
<b>Fill ceiling joint, close electrical slots</b> FG 70 Füll- und Zargengips FG 700 Füllgips Spezial	kg/m <sup>2</sup>	approx. 2 – 3	25 kg bag 30 kg bag	40 pcs./pallet
<b>Gypsum filler (backfilling doorframes)</b> FG 70 Füll- und Zargengips FG 700 Füllgips Spezial	kg/doorframe	approx. 17	25 kg bag 30 kg bag	40 pcs./pallet
<b>Surface smoothing plaster</b> SG 90 Uni	kg/mm/m <sup>2</sup>	approx. 0.8	25 kg bag	42 pcs./pallet

## LITERATURE

EN 12859 (2011-05) Gypsum blocks – Definitions, requirements and test methods

EN 12860 (2002-07) Gypsum based adhesives for gypsum blocks – Definitions, requirements and test methods

DIN 4103-2 (2017-09) Internal non-load bearing partitions – Part 2: Partitions made of gypsum blocks

EN 15318 (2008-01) Design and application of gypsum blocks

NOTE: In Germany gypsum blocks according to EN 12859 are used for non-load bearing partitions on the basis of German standard DIN 4103-2. The European standard EN 15318 for design and application of gypsum blocks is not applicable in Germany as it contradicts national building authority requirements.

Technical data sheet for construction product based on harmonised standard. No guarantee of being exhaustive or generally valid; legal claims against VG-ORTH GmbH & Co. KG cannot be based thereon. Only valid in conjunction with the recognized rules of construction technology, as published in the regulations of the professional associations and their professional bodies, as well as in conjunction with the technical documentation of VG-ORTH GmbH & Co. KG. Does not apply to other specified construction products/types in conjunction with their installation. Provides technical information for professional users to improve their understanding and ensure that the construction product is used and applied as intended. Does not substitute compliance with the established rules of construction technology and professional use and design under practical conditions by professional users. Warranted performance by the manufacturer for the construction product at time of market introduction. No commitment to a legally binding guarantee of certain properties or suitability for a particular application. No guarantee concerning performance characteristics of product as used, which depend on proper use. The relevant technical values for the construction product were calculated in accordance with the testing standard. To achieve the physical, structural and construction properties of MultiGips gypsum blocks, only MultiGips system components or products recommended by VG-ORTH GmbH & Co. KG may be used.

**Note on English translation** This is a translation of the technical data sheet valid in Germany. All stated details and properties are in compliance with the regulations of the EU and German standards and German building regulations. They are only applicable for the specified products, system components, application rules and construction details in connection with the specifications of the respective certificates and approvals. VG-ORTH GmbH & Co. KG denies any liability for applications outside of EU and Germany as this requires changes according to the respective national standards and building regulations.

### VG-ORTH GmbH & Co. KG

Holeburgweg 24 | 37627 Stadtoldendorf

Telephone +49 5532 505-0

Fax +49 5532 505-560

info@multigips.com

www.multigips.com

