

# VidiFire A1

Description, Field of Application, Sizes of the Boards, Installation, Technical Properties, Joint Technique, Surface Treatment

## Composition

The VidiFire A1 gypsum fibreboards are composed of high quality calcinated gypsum and organic and non-organic fibres.

### Special properties

- Non-combustible, class A1
- Versatile application
- Robustness
- Moisture resistance
- Easy installation
- High fire- and sound protection

## VidiFire A1 Board Data

Thickness: 12.5 / 15 mm  
 Width: 1200 / 1250 mm  
 Length: 2000 / 3000 mm

The VidiFire A1 boards are produced with differently shaped edges depending on the joint technique.

Edge shape: SK   
 VTF 

The boards are produced with 4SK; 3SK/1VTF; 2SK/2VTF; 1SK/3VTF; and 4VTF edges.

## Field of Application

### Mainly:

- Fire protection of escape routes
- Claddings in public buildings
- Metal stud partitions
- Solutions for sound protection

### but also:

- Timber prefabricated houses – as cladding to the wall structures and for reinforcing of the building
- Drywall partitions in humid areas
- High partition walls (for more information see technical data sheet W36)

## European Norms

- EN 15283-2 Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibreboards
- A1 classification acc. to EN 13501-1 based on tests acc. to EN ISO 1182 and EN ISO 1716.

## Weight of the Boards

12.5 mm	17.5 kg/m <sup>2</sup>
15 mm	21 kg/m <sup>2</sup>

## Storage

Knauf VidiFire A1 boards must be stored on a flat surface in a dry environment.

### Application

#### Formatting

To cut the fibreboards score one side with a knife and snap the board along the score. Cut edge can be smoothed with bevel plane. Clean the dust before application at glued joint.

Clean edges can be cut also with electric saw (dust absorber is recommended).

#### Fixing with screws

Align the VidiFire A1 fibreboard along the profiles and fix with fibreboard screws applying proper torque/rpm. For single layer cladding use screws 3.9x30 mm, for double layer cladding use screws 3.9x45 mm.

Screw spacing to be max. 250 mm. By horizontal application the screw spacing must be max. 150 mm for 10 mm thick boards, and 200 mm for 12.5 mm thick boards. Distance from board edge should be at least 15 mm.

#### Fixing with clamps

VidiFire A1 fibreboards can be fixed to timber structures through screws, nails or clamps with corrosion protection covering. Clamps can also be used for fastening of the second layer of boards to the first one or board to board to form a box-like cladding.

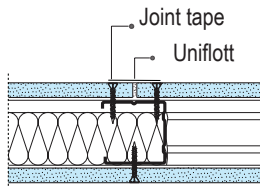
### Technical Data

Density :	1250 ± 50 kg/m <sup>3</sup>	Deviation in dimension:	0.30 mm/m	Bending strength:	$f_{m, test} \geq 5.8 \text{ N/mm}^2$
Thermal conductivity:	$\lambda \leq 0.31 \text{ W/mK}$	(at 20°C and deviation in relative air moisture by 30%)		(after drying at temperature 40°C)	
Water diffusion resistance coefficient:	$\mu = 17$	Hardness:	approx. 750 N	Bending strength:	$f_{m, k} = 4.5 \text{ N/mm}^2$
Fire classification acc. to EN 13501 non-combustible:	A1			Compressive strength:	7.5 N/mm <sup>2</sup>
				Tensile strength:	2.3 N/mm <sup>2</sup>
				E-modulus (bending):	$\geq 3800 \text{ N/mm}^2$

### Joint Technique

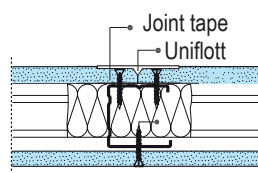
#### Gap joint

Apply VidiFire A1 fibreboards with a gap of 5-7 mm between boards. Fill the gap with Uniflott. Apply some of the joint filler along the joint, so that the jointing tape would be embedded in to it. The joints of the first layer are only filled in case of multilayer claddings, while the joints of the final layer are also finely skimmed. Remove uneven spots with hand or pole sander. Cover the screw heads with Uniflott.



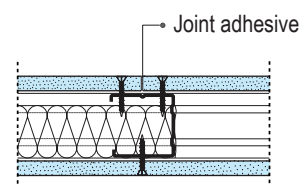
#### VTF joint

Apply VidiFire A1 fibreboards pressed tightly to each other. Apply Uniflott in the beveled edge and embed joint tape into it. Sand after the joint filler has dried.



#### Glued joint

Fix the VidiFire A1 board on the structure and apply joint adhesive on its edge. Press the next board tightly to the first one and fix with screws or clamps. The width of the joint should not exceed 1 mm. Remove the excessive adhesive with a spatula within an hour.



### Surface Treatment

#### Coats

Use a primer on VidiFire A1 boards before coating or painting them. Ensure that the primer and the coat or paint are compatible.

#### Plasters

Always use a primer before applying cement-based plasters on VidiFire A1 boards.

#### Ceramic Tiles

Tiling on the primed surface is applied with tile adhesive. Ensure that the primer and the adhesive are compatible. Use Knauf Flächendicht in the shower area.

#### Finishing

For a fine surface skim the VidiFire A1 boards with Knauf Fill & Finish Light or Knauf Readyfix Roll & Spray.

#### Recommendations

Before installation condition the boards to the ambient temperature and humidity. Fill the joints only when no changes in temperature or humidity are expected, which could cause expansion or contraction of the boards.

Joints should be filled at a minimum temperature of +10°C (50°F).

Always apply paper joint tape in critical areas. Prime the VidiFire A1 surface before application of finishing material.

The primer and the coat or paint must be compatible.

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