

Hydewa HC-Sandwichpanel Glasbord® / FRP Honeycomb-FRP

Technical Data Sheet (14.08.2024 / Rev 4)

Description

Hydewa HC sandwich systems are suitable as facing shells or ceiling elements in the interior of the building envelope without structural verification. They consist of a honeycomb core (HoneyComb) with cover layers bonded on both sides. The honeycomb structure of the core achieves very good rigidity with a low thickness. At the same time, the panels remain light and transportable.

The chemically resistant, easy-to-clean top layer made of Glasbord® / FRP (glass fiber reinforced plastic) ensures optimum hygiene conditions thanks to its unique surface (Surfaseal® for Glasbord®).

Technical Data

Length(l) x width(w) :	max. 12m x 1.19m (other lengths on request) Please note the material expansion due to climatic conditions!
Cover layer front side:	Glasbord®/ FRP flat or structured in thicknesses from 1.5 mm - 2.3 mm in various designs (see separate surface data sheets). Standard color: white (other colors possible).
Technical data base panel:	honeycomb panel (HoneyComb) made of polypropylene with polyester fleece
Thickness:	15 mm (Other thicknesses on request)
Dimensions:	Width 1190 mm / possible production length max. 12 m Lengths depend on the structural conditions and the panel thickness
Element connection:	PVC mounting rail
Fire classification:	E according to DIN EN 13501
Rear cover layer:	See front page or FRP 1.2 mm

Weight & U-Value

We use a polypropylene honeycomb panel with polyester fleece on both sides as the core. From the design values, the following data can be derived for the respective panel thicknesses.

Panel thickness	~	19 mm
Weight (min./max. kg/m ²) FRP /FRP	~	5,46-8,53

Notes: Weight varies due to the possible material combinations
Other thicknesses on request

Technical Data / Characteristic values Hydewa HC-Sandwichpanel

Fire behavior as a system: E according to DIN EN 13501

Joint cover: Hydewa hps-1c (soft joint sealant)
Hydewa hps-2k (hard joint sealant)

Sound insulation values: not available

European waste code: Glasbord® / GFK 20 01 39 Plastics
Honeycomb polypropylene Recycling

The surface layers must be separated and disposed of separately.
If this is not possible, the panel can only be incinerated.

Quality, manufacturing tolerances and defects

Hydewa manufactures sandwich panels to a high quality standard.

In accordance with EN 14509, we not only comply with the required limit values, but usually even manufacture with lower tolerances (see table). Compliance with the parameters is ensured by continuous production control during the ongoing process and by our own final product inspection before packaging.

If the panels deviate, they are immediately readjusted. Deviations from the parameters are therefore possible in individual cases. However, this is not a defect if the panel as a whole is within the tolerance and the use of the products for the intended purpose is not impaired.

If defects nevertheless occur, we will find an adequate solution in consultation with the customer and the installation company.

It is the responsibility of the installation company to install only flawless elements. If defective elements are installed, claims for reimbursement of expenses for removal and installation will not be recognized.

The quality of ceilings and walls depends not only on dimensional accuracy but also on the quality of the installation.

Dimensional tolerances - continuous production

Panel width (usable width / cover dimension)	1190 mm	+/- 2 mm
Panel length	Target dimension	+/- 5 mm
Angularity		+/- 3 mm
Panel thickness (incl. cover layers)		+/- 1 mm
Joint width	5 mm	+/- 1 mm

Dimensional tolerances - Manual production

Panel width (usable width / cover dimension)	Target dimension	+/- 3 mm
Panel length	Target dimension	+/- 3 mm
Angularity		+/- 3 mm
Panel thickness (incl. cover layers)		+/- 1 mm
Joint width	5 mm	+/- 1 mm

(values at standard climate - 23°C /50% r.h.)

Notes on storage and processing

Sandwich panels should not be stored outdoors in order to protect them from all weather influences such as sunlight (UV radiation). Store with as much surface area as possible.

The processing temperature should be slightly higher than the later application temperature.

Wear gloves and personal protective equipment (PPE) during installation.

The panels can be sawn, drilled and sanded. Care must be taken not to damage the surface during processing.

Open cut edges must be formed in such a way that the panel is not damaged by moisture, animal damage or insect infestation, for example. This may require constructive measures, which must be assessed in each individual case.

Do not place any loads on the surface. Fastening according to on-site statics!

Observe the respective installation instructions (available from Hydewa GmbH).

Please note:

We would like to point out that we as a company can only provide a warranty if the material warranty if the material provided by us is also processed with our system components.

The combination of our material and our specific

The combination of our material and our specific components has been carefully tested and found to be safe and reliable (please refer to the system components listed in the installation recommendation).

We can therefore accept no responsibility for any damage or problems resulting from the use of our material in conjunction with other system

system components that have not been provided or tested by us. We therefore strongly recommend that you use our system components together with our material to ensure optimum performance and safety.

Application

The area of application is indoors, where increased hygiene requirements are important.

Hydewa sandwich systems are suitable for use in e.g:

Production facilities, storage facilities, etc.

Color tolerances

The materials used for panel production are all subject to color drift. This is dependent

e.g. on age, environmental influences, product influences. This means that even with the same surface, there can sometimes be

from batch to batch. Glasbord® has a maximum deviation of 2 Δ E during production.

Production, development and sales

In order to provide you, our customer, with consistently high quality, we are constantly developing and improving our products and our production facilities.

If you have any questions about our products or would like to make suggestions, please contact:

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Certificates



LFGB § 31
indirekter Kontakt mit
Lebensmitteln
für Glasbord Oberflächen

Klassifiziert nach
DIN EN 13501-1