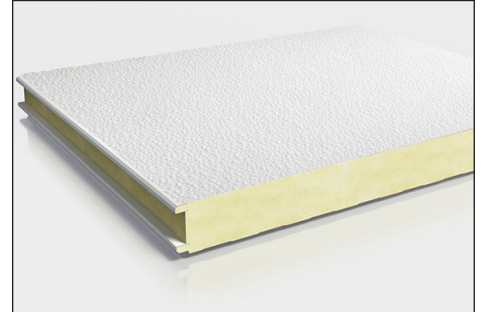


Hydewa RP-Sandwichpanel Glasbord®/ FRP-RP sheet / Glasbord®/ FRP

TECHNICAL DATA SHEET (01.04.2024 / Rev 3)



Description

Hydewa RP sandwich systems are suitable as facing shells, self-supporting partition walls or ceiling elements in the interior of the building envelope without structural verification.

Commercially available sheet steel panels with a PIR insulation core serve as the base panel, which are laminated on one or both sides with Glasbord®/FRP facing sheets.

The PIR core achieves very good insulating properties. At the same time, the panels remain stable and transportable.

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

Technical data

Length(l) x width(b) :	max. 8.5 m x 1.15 m (other lengths on request) Please note the material expansion due to climatic conditions!
Cover layer front side:	Glasbord®/ FRP flat or structured in thicknesses of 1.5 mm, 1.9 mm and 2.3 mm in various designs (see separate surface data sheets). Standard color: white (other colors possible).
Technical data base panel:	Sandwich panel with PIR insulation core and steel top layer on both sides
Thickness:	45-220 mm
Dimensions:	Width 1150 mm / length max. 8500 mm
Element connection:	Tongue and groove
Statics:	See load tables DIN EN 1993-1-3, construction class II
Fire classification:	D B1 according to DIN 4102 - flame retardant CH Class 5.3 according to VFK Bern EU Euro-Class B-s2-d0, according to EN 13501-1, P120 EI 30, P200 EI 60 FM FM Approval (4880, 4881, 4882, 4471)
Rear cover layer:	Galvanized sheet steel of the insulation core or see front page

Weight & U-value

For insulation, we use PUR rigid foam with steel cover layers on both sides. The following data for the respective panel thicknesses can be derived from the design values.

Panel thickness	~	45mm	60mm	80mm	100mm	120mm
Weight (min./max.kg/m ²) FRP/Smetall	~	14,06-15,47	14,69-16,10	15,53-16,94	16,37-17,78	17,21-18,62
Weight (min./max. kg/m ²) FRP/FRP	~	16,04-18,87	16,67-19,50	17,51-20,34	18,35-21,18	19,19-22,02
U-value EN12667 (W/(m ² * K)	~	0,540	0,388	0,285	0,226	0,187

Panel thickness	~	140mm	170mm	200mm	220mm	
Weight (min./max.kg/m ²) FRP/Smetall	~	18,05-19,46	19,31-20,72	20,57-21,98	21,41-22,82	
Weight (min./max. kg/m ²) FRP/FRP	~	20,03-22,86	21,29-24,12	22,55-25,38	23,39-26,22	
U-value EN12667 (W/(m ² * K)	~	0,160	0,131	0,111	0,101	

Notes: Weight varies due to the possible material combinations
U-values only refer to the insulation core

Technical data / characteristic values Hydewa RP sandwich panel

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: ~ 25dB

European waste code: Glasbord® / FRP 20 01 39 Plastics
RP
PIR (HBCD free) 17 06 04 Insulation material
Sheet steel Recycled metals

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

Quality, production 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.

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 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

ensure optimum performance and safety.

Application

It is used indoors, where not only increased hygiene requirements but also thermal insulation are important. Hydewa sandwich systems are suitable for use in e.g:
Production facilities, storage facilities, cold stores, deep-freeze stores, 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