

PRODUCT SPECIFICATIONS

Agri-coating
Available with agri-coating for long lifespan in agricultural environment.

Fireproof
Available with fire resistant properties and classified as fire class B-s2,d0.

Preservation+
This version is especially developed for a durable and condensation-free wall and roof construction.

Foodsafe
Special edition for the food industry. The coating complies with the prescribed hygiene regulations.

PV suitable
This sandwich panel is suitable for solar panel installation.

FM-certified
This sandwich panel is FM-certified.*

Zulassung
This product complies with the German Zulassung.

*If you like to have your order FM-certified, let us know in advance.

CERTIFICATES

Member of European Association for Panels and Profiles

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CE



ABOUT FALK BUILDING SYSTEMS

FALK Building Systems manufactures insulated metal panels that can be used for roofs, walls, and facades. These sandwich panels are a sustainable and versatile roofing and facade solution, and highly determine the identity of your building. However, at FALK you determine this identity. Especially, now that you can choose a circular sandwich panel that comes with our CradleCore® insulation core. On top of that, you can also pick your roof or wall colour, the insulation value and type of coating, yourself.

By operating two production lines, FALK can quickly and adequately deliver the right products at the right location. In recent years, millions of square metres of FALK panels have been mounted on utility buildings, houses, barns, showrooms, and all other building types.

FALK, clever construction for a circular future.

100% MADE IN HOLLAND



HIGH INSULATION VALUE
DEEP GOLFPROFILE

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PRODUCT SPECIFICATIONS

FALK 1000 GL

The aesthetic sandwich panel, for horizontal and vertical installation

The FALK 1000 GL can be used as roof panel and wall panel. Due to our large line of coatings and colours, the aesthetic panel has a unique character. The sandwich panel is so powerful that in several situations a span of 4 metres can be reached. The panel can be installed horizontally and vertically.

Choose from several metallic- and matte colors

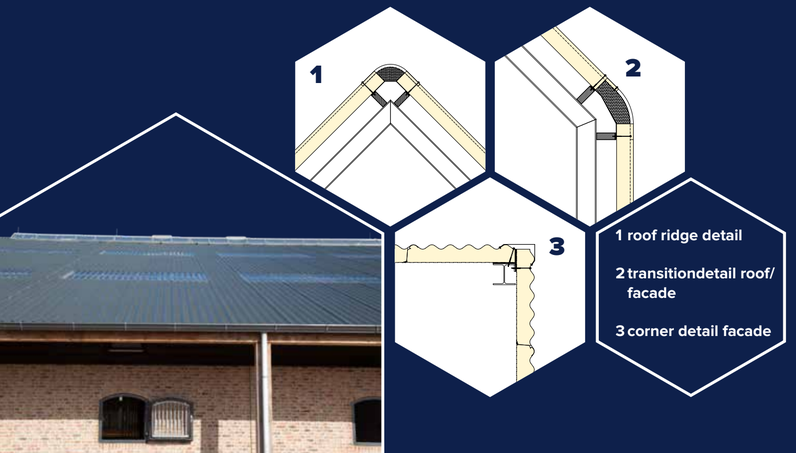
The FALK 1000 GL comes with a Colorcoat® coating. The most important products are HPS200 Ultra® and Prisma®. The colours in this assortment are unique and you can choose from several metallic and matte colours.

Fire resistance and airtightness

The FALK 1000 GL is part of the highest category airtightness: Passive Building. This makes the panel suitable for residential roofing and façade projects. In addition to that, the panel has a high fire resistance which meet the needs of building requirements. Therefore, the panel is also very suitable for agricultural and industrial buildings.

Your choice of coating

You can finish the coating of your choir with the innerside of the panel. The quality of the coating depends on the function of the building. The standard color of the coating is RAL 9002.



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* 0,5 mm/0,4 mm inner- and outer sheet

Core thickness [mm]	Total height [mm]	R-value [m²K/W]	Rc-value [m²K/W]	U-value [m²K/W]	Weight* [kg/m²]	Fire class [-]	Fire Resistance [min.]
43	83	2,56	2,52	0,39	10,9	B-s2,d0	EW30
60	100	3,34	3,31	0,30	11,6	B-s2,d0	EW60, EI20
80	120	4,29	4,26	0,23	12,4	B-s2,d0	EW90, EI30
120	160	6,19	6,14	0,16	14,0	B-s2,d0	EW90, EI30

STANDARD VERSION

Working width:	1.000 mm
C.t.c. distance crowns:	167 mm
Profile height:	40 mm
Core insulation:	PIR-isolation core (CradleCore® available upon request)
End overlap:	Available with or without end overlap (max. 300 mm)
Lay direction:	Left and right implementation
Coating:	Outer side: Colorcoat HPS200 Ultra® (other coatings available upon request) Inner side: Polyester 25 mu (other coatings available upon request)
Steel thicknesses:	Outer sheet: 0,5 mm (standard) Inner sheet: 0,4 mm (standard)
Minimum length:	2.500 mm (shorter on request)
Maximum length:	20.000 mm
Packing:	Protective foil is optional
Sound insulation:	Circa 25 dB(A)
Light cassettes:	Available with a core thickness of 43 mm up to 80 mm with the same profile profiling
Application:	
CE-marking:	NEN-EN 14509
Tolerances:	NEN-EN 14509

FALK 1000 GL LOAD SPAN TABLE

Thickness [mm]	Wind zone 1			Wind zone 2			Wind zone 3	
	Cultivated [m]	Uncultivated [m]	Coast [m]	Cultivated [m]	Uncultivated [m]	Coast [m]	Cultivated [m]	Uncultivated [m]
43/83	4,25	3,57	2,63	4,83	4,06	2,96	5,25	4,66
60/100	4,51	3,77	2,74	5,17	4,31	3,10	6,05	4,98
80/120	4,72	3,91	2,82	5,45	4,50	3,20	6,54	5,23
120/160	4,77	3,90	2,85	5,61	4,52	3,23	6,86	5,37

This table is based on the Dutch requirements. For your own specific situation, please contact us.

Explanation of the span table

The acceptable spans in the above table are based on the assumptions below. Does the project-specific situation differ from these starting points? Or would you like a project specific calculation? Please contact FALK Techniek: (0318) 670 670.

Principles:

a. Acceptable spans are in metres
b. Wind zones and surroundings according NEN-EN 1991-1-4, building height up to 9 metres
c. To determine the occurring wind load, a closed building with wind zones in the middle area of the building is assumed (note: increased wind load may occur on the sides of a building!)
d. Thicknesses of steel sheets: 0,5 mm (outer sheet) and 0,4 mm (inner sheet)
e. Result class CC1: Agricultural buildings and industrial buildings up to two storeys height
f. Strength and stiffness of sandwich panels according to NEN-EN 14509
g. Color group: 3 (dark colors like RAL 7016)
h. A double field span (least favourable situation)
i. Deflection: L/250
j. Application: Roof (facade available on request)
k. Roof angle: 15 degrees

CROSS SECTION

