

PRODUCT SPECIFICATIONS

EKO B
These EKO B-panels comply with the prescribed fire class B. Usually, the panels are applicated in the agricultural sector.

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

PV-suitable
You can assemble solar panels on this sandwich panel.

CERTIFICATES

Member of European Association for Panels and Profiles

lid koninklijke metaalunie



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

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AMMONIA RESISTANT
& ASBESTOS REPLACEMENT

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PRODUCT SPECIFICATIONS

FALK 1000 GL EKO B

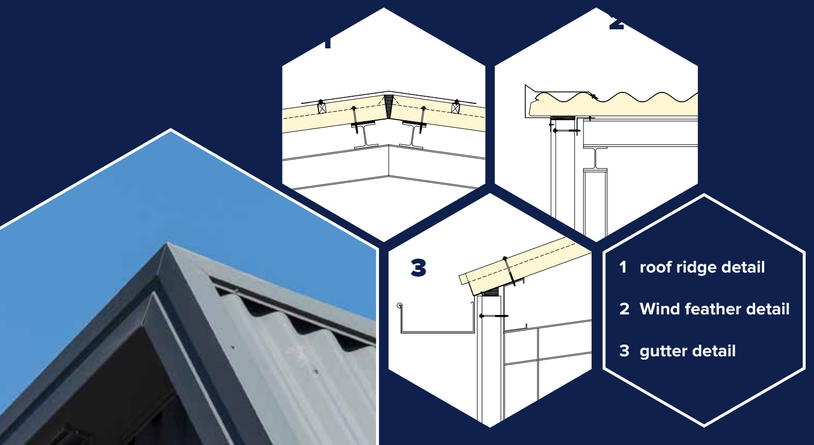
Sandwich panels for agraricultural use (with fire class B)

This FALK 1000 GL EKO (B) sandwich panel is designed for use in agricultural buildings for housing cattle. It can also be used for replacing asbestos roofs on agricultural buildings where livestock is kept. The aluminum foil on the bottom side protects the panel against the effects of ammonia. Furthermore, it complies with fire class B and thus, the requirements of the Building Decree. It offers optimal protection against external influences.

Standard coating offers 40 years of protection
The outer plate of the FALK 1000 GL EKO (B) is coated with Colorcoat HPS200 Ultra®. This guarantees protection for up to 40 years! Solar panels can also be perfectly installed to the 1000 GL EKO (B), with retention of warranty through periodic inspection and maintenance.

Completely custom made
This panel can be fully customized, thanks to the great production options. The production lengths of the FALK 1000 GL EKO (B) vary between 2,500 mm and 20,000 mm. During the production process, the panel can be defoamed up to 300 mm on the gutter side.

Replacement for asbestos roofs
The deep corrugated profile gives the FALK 1000 GL EKO (B) characteristic features. Combined with the HPS FALK Black Matt coating, it is an excellent product for replacing an asbestos roof.



PRODUCT SPECIFICATIONS

Core thickness [mm]	Total height [mm]	R-value [m²K/W]	Rc-value [m²K/W]	U-value [m²K/W]	Weight* [kg/m²]	Fire class [-]
31	71	2,03	2,00	0,46	7,2	B-s2,d0
43	83	2,56	2,52	0,37	7,6	B-s2,d0
60	100	3,34	3,31	0,29	8,3	B-s2,d0

STANDARD VERSION

Working width:	1.000 mm
C.t.c. distance crowns:	167 mm
Profile height:	40 mm
Core insulation:	PIR-isolating foam (CradleCore® upon request)
End legoverlap:	Available with or without an end overlap (max. 300 mm)
Laying direction:	Left and right implementation
Coating:	Outer side: Colorcoat HPS200 Ultra® (other coatings available upon request) Inner side: White stucco aluminium foil (ca. RAL 9002)
Steel thicknesses:	Outer sheet: 0,5 mm (standard)
Minimum length:	2.500 mm (shorter on request)
Maximum length:	20.000 mm
Packing:	Protective foil is optional
Sounds insulation:	Circa 25 dB(A)
Light cassettes:	Available with a core thickness of 30 mm up to 60 mm in the same profiling
Application:	
CE-marking:	Not applicable
Tolerances:	Not applicable

FALK 1000 GL EKO (B) 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]
31/71	2,40	2,34	2,10	2,44	2,39	2,11	2,49	2,43
43/83	2,40	2,34	2,10	2,44	2,39	2,11	2,49	2,43
60/100	2,40	2,34	2,10	2,44	2,39	2,11	2,49	2,43

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

Explanation of load span table

The acceptable spans in the table above 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 in accordance with NEN-EN 1991-1-4, building height up to 9 metres
c. To determine of 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)
e. Result class CC1: Agricultural buildings and industrial buildings up to two storeys in height
f. Strength and stiffness of the EKO panels according to NEN-EN 1993-1-3
g. Color group: 3 (dark colors like s RAL 7016)
h. A double field span (least favourable situation)
i. Deflection: L/150
j. Application: roof (facade upon request)
k. Roof angle: 15 degrees

CROSS SECTION

This product has a white stucco aluminium foil on the bottom and thus, no profile.

