

PROPERTIES

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
This sandwich panel is suitable for solar panel installation.

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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FALK® BUILDING SYSTEMS

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version 2020-10

FALK® BUILDING SYSTEMS



AMMONIA RESISTANT & FIRE CLASS B

PRODUCT SPECIFICATIONS

FALK 1000 TR EKO B

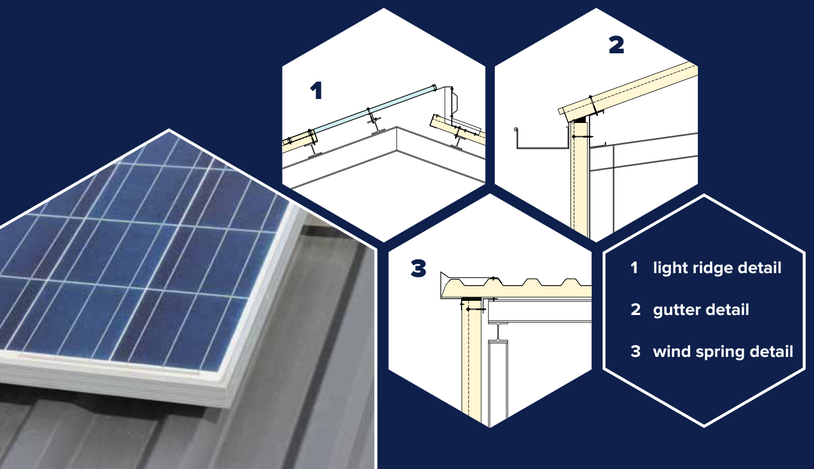
The trapezoid panel at the front renovation and new construction

Suitable for use on a pitched roof: the FALK 1000 TR EKO (B). With this five-crown model EKO panel, FALK guarantees long-term protection of your building. Even when it concerns an agricultural or industrial building. And renovation or new construction.

Suitable for agricultural and industrial buildings
The FALK 1000 TR EKO (B) comes with a Colorcoat HPS200 Ultra® protection on the outside and a white stucco aluminum foil on the inside. The film is resistant to ammonia vapors and is therefore very suitable for agricultural environments. Thanks to its high fire resistance (B-s2, d0), the panel can be used on both agricultural and industrial buildings.

Long lengths, quick installation
This lightweight trapezoidal panel is available in lengths up to 25 meters. This ensures quick cladding. Our own drivers take care of the delivery at the construction site and, if desired, a self-unloading trailer can be used.

Very long life cycle: up to 40 years warranty
The panel has a very long life cycle. The Colorcoat® protection offers effective resistance to (weather) influences. This coating has a guaranteed warranty of up to 40 years. We have thought of the appearance of this panel and that is why it is also available in various colours.



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 [-]
30	65	1,79	1,76	0,56	7,1	B-s2,d0
40	75	2,19	2,16	0,46	7,5	B-s2,d0
60	95	3,08	3,05	0,32	8,3	B-s2,d0

STANDARD VERSION

Working width:	1.000 mm
C.t.c. distance crowns:	200 mm
Profile height:	35 mm
Core insulation:	PIR-isolating foam (CradleCore® available upon request)
End overlap:	Available with and without 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:	Supplied with protective foil (optional)
Sounds insulation:	Approximately 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 TR 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]
30/65	2,39	2,19	1,87	2,45	2,34	1,99	2,47	2,44
40/75	2,39	2,19	1,87	2,45	2,34	1,99	2,47	2,44
50/85	2,39	2,19	1,87	2,45	2,34	1,99	2,47	2,44
60/95	2,39	2,19	1,87	2,45	2,34	1,99	2,47	2,44

This table is based on the Dutch requirements. We are happy to help you with specific spans for your project and location.

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 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 building layers in length
f. Strength and stiffness of the EKO panels according to NEN-EN 1993-1-3
g. Colour group: 3 (dark colors like s RAL 7016)
h. A double field span (least favourable situation)
i. Deflection: L/150
j. Application: roof (facade on request)
k. Roof angle: 15 degrees

CROSS SECTION

This product has a white stucco aluminum foil on the bottom and thus, no profiling.

