

PRODUCT SPECIFICATIONS

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

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

PV suitable
The 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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EXTRA WIDE PANEL
100 MM EXTRA!

FALK Bouwsystemen B.V.

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PRODUCT SPECIFICATIONS

FALK 1100 TR 3+ EKO B

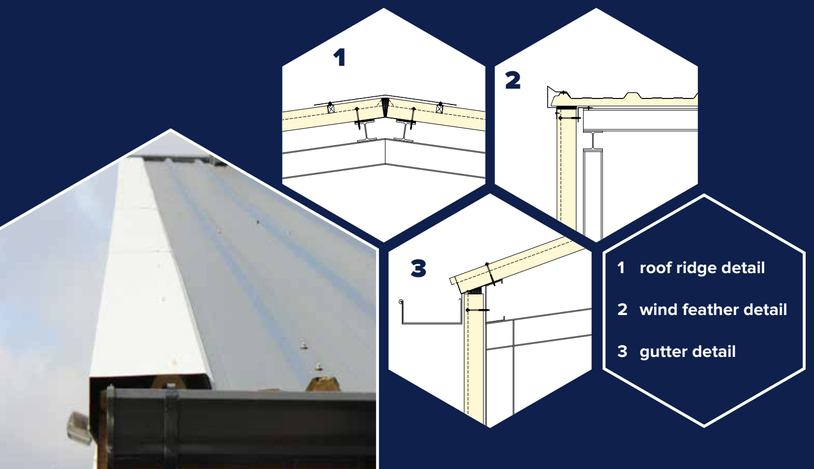
Fast installation thanks to maximum length and width

Fast installation, high quality. This characterizes the FALK 1100 TR 3+ EKO B panel. This panel is widely used in the agricultural sector, especially on pitched roof. Whether it is new construction or a renovation project.

For the agricultural sector
The suitability for the agricultural sector is partly due to the high fire resistance (fire class B-s2, d0) and the finish with an ammonia-resistant aluminum foil. The panel is supplied as standard with the highest quality exterior coating (Colorcoat HPS200 Ultra®). The Colorcoat HPS200 Ultra® gives the panel a guaranteed protection for up to 40 years. The Confidex warranty applies to this.

Available up to 25 meters in length
The FALK 1100 TR 3+ EKO (B) is available in lengths up to 25 metres. The minimum production length is 2.5 metres. Customization below 2.5 metres? That is offered by FALK Editing. Our own truck drivers deliver the packaged panels at your building site and, if desired, a self-unloading trailer can be used.

Suitable for solar panels and lighting solutions
The FALK 1100 TR 3+ EKO (B) can be perfectly combined with both solar panels and lighting solutions, while maintaining their quality and guaranteed characteristics.



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** available on request

Core thickness [mm]	Total height [mm]	R-value [m²K/W]	Rc-value [m²K/W]	Weight* [kg/m²]	Fire class [-]
30	60	1,64	1,61	6,2	B-S2-D0
40	70	2,10	2,07	6,6	B-S2-D0
50 **	80	2,55	2,52	7,0	B-S2-D0
60	90	3,02	2,99	7,4	B-S2-D0

STANDARD VERSION

Working width:	1.100 mm
C.t.c. distance crowns:	367 mm
Profile height:	30 mm
Core insulation:	PIR-isolating foam (CradleCore® 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 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 upon request)
Maximum length:	25.000 mm
Packing:	Supplied with protective foil (optional)
Sounds insulation:	Circa 25 dB(A)
Light cassettes:	Available with a core thickness of 40 mm up to 60 mm in the same profiling
Application:	
CE-marking:	Not applicable
Tolerances:	Not applicable

FALK 1100 TR 3+ 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]
30/60	1,43	1,34	1,06	1,43	1,43	1,16	1,43	1,43
40/70	1,43	1,34	1,06	1,43	1,43	1,16	1,43	1,43
50/80	1,43	1,34	1,06	1,43	1,43	1,16	1,43	1,43
60/90	1,43	1,34	1,06	1,43	1,43	1,16	1,43	1,43

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. 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 in accordance with 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.

