

PRODUCT SPECIFICATIONS

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

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

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

CERTIFICATES

Member of European Association for Panels and Profiles

lid koninklijke metaalunie

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 RC-VALUE & SPAN

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FALK Bouwsystemen B.V.

Neonstraat 23
6718 WX Ede
Holland

(0318) 670 670
info@falkbouwsystemen.nl
www.falkbouwsystemen.nl

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PRODUCT SPECIFICATIONS

FALK 1100 TR 3+ PD

Huge roof surfaces covered in one time!

Are you looking for a high-quality flat roof panel which is easy to assemble? The FALK 1100 TR 3+ PD gives you everything you need. The insulation layer and protective layer (steel sheets) are installed together in one time. In addition, the maximum length is 25 meter and the working width is 1100 mm.

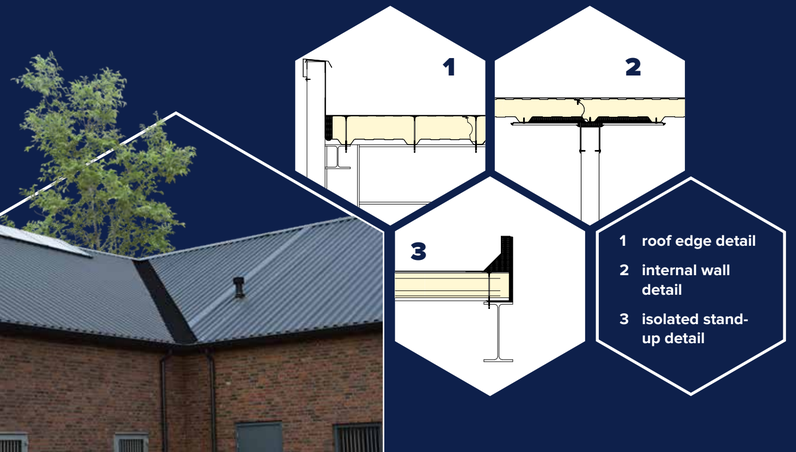
Your building is perfectly protected against weather conditions with the FALK 1100 TR 3+ PD. Combined with an EPDM, APP or plastic membrane, this panel will also keep your flat roof completely waterproof. Furthermore, the insulation value and airtight value go beyond the requirements of the 'Bouwbesluit'. The airtightness test values, also show that this panel meets the 'Passive Building' norm.

Finest installation

FALK 1100 TR3+ PD panels with a core thickness of 100 mm or more, have a tongue-and-groove connection, which offers incredible benefits. These panels create better airtightness, offer more support and are positioned better. Therefore, when loaded, these panels will not bend separately.

Suitable for solar panels, vegetation and light solution

This panel creates sustainability thanks to its many possibilities; solar panels, roof vegetation and light solutions can all be placed onto this panel.



PRODUCT SPECIFICATIONS

* 0,6 mm/0,6 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 [-]
80	110	3,94	3,91	0,25	14,1	B-s2,d0
100	130	4,85	4,82	0,20	14,9	B-s2,d0
130	160	6,20	6,17	0,16	16,1	B-s2,d0
150	180	7,10	7,07	0,14	16,9	B-s2,d0

STANDARD VERSION

Working width:	1.100 mm
C.t.c. distance crowns:	367 mm
Profile height:	30 mm
Core Insulation:	PIR-isolation foam (CradleCore® available upon request)
Coating:	Outer side: Polyester 20 mu (other coatings available upon request) Inner side: Polyester 20 mu (other coatings available upon request)
Steel thickness:	Outer sheet: 0,6 mm (standard) Inner sheet: 0,6 mm (standard)
Minimum length:	2.500 mm (shorter available upon request)
Maximum length:	25.000 mm
Packing:	Supplied with protective foil (optional)
Sound Insulation:	Approximately 25 dB(A)
Application:	
CE-marking:	NEN-EN 14509
Tolerances:	NEN-EN 14509

FALK 1100 TR 3+ PD 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]
40/70	2,90	2,70	2,01	2,95	2,86	2,26	3,02	2,93
50/80	3,29	2,85	2,13	3,36	3,24	2,38	3,44	3,34
60/90	3,60	3,03	2,23	3,81	3,45	2,50	3,90	3,79
80/110	4,07	3,38	2,45	4,64	3,88	2,77	4,75	4,51
100/130	4,50	3,70	2,65	5,22	4,29	3,02	5,59	5,01
130/160	4,99	4,08	2,89	5,82	4,74	3,31	6,50	5,57
150/180	5,26	4,29	3,03	6,16	4,99	3,47	7,16	5,90

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 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 surroudings 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) and 0,4 mm (inner sheet)
e. Result class CC1: Agricultural buildings and industrial buildings up to two storeys in height
f. Strength and stiffness of the sandwich panels in accordance with 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 upon request)
k. Roof angle: 15 degrees

CROSS SECTION

Panels with a core thickness of 100 mm or more, have a tongue-and-groove connection. These panels offer more support, are better positioned, and create better airtightness.

