

PRODUCT SPECIFICATIONS

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

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.

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 & LOAD SPAN

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version 2020-10

PRODUCT SPECIFICATIONS

FALK 1000 TR PD

The installation-friendly flat roof system for any type of construction

How do you insulate a flat roof? With the FALK 1000 TR PD sandwich panel. This insulated metal panel is suitable for any type of construction. Even combined with solar panels, sedum planting and various lighting solutions, we turn your sustainable ambition into reality.

A unique two-layer solution

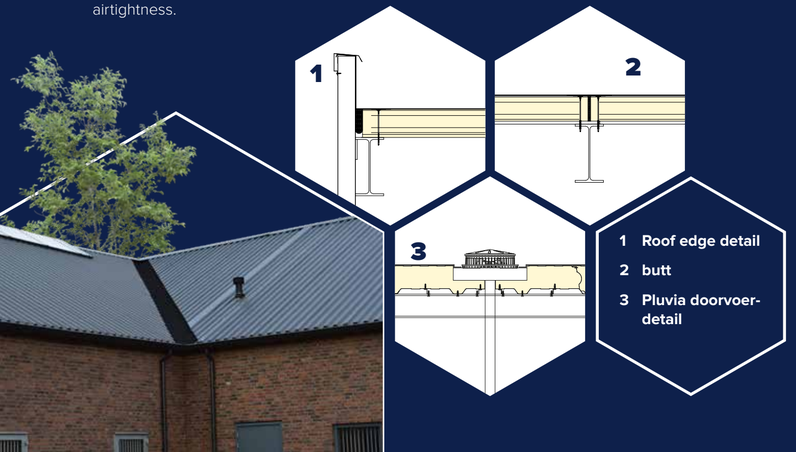
The FALK 1000 TR PD can be used in the FALK Flat roof system. This system enables you to mount panels directly onto a steel structure. A plastic roof covering is usually used as a finish. What are the advantages of this unique two-layer solution? A high-quality inner plate and high insulation values combined in one product, offer an easy one-step installation. So, in other words: quality, convenience, and speed!

Screw heads remain invisible

The panel has a sleek 35 mm deep trapezoidal profile on the bottom side. The outside is finished with a shallow box profiling. Special screws are used to install this panel in a pressure distribution plate and that is why, the screw heads are not visible through the roof covering.

Faster assembly

The panel has a maximum length of 25 meters. Combined with positive stacking upon delivery, we can ensure a significantly faster installation. From 100 mm or thicker, the FALK 1000 TR PD has a special tongue-and-groove connection. This connection also offers easy installation and better airtightness.hollow-dol connection. This connection provides ease of installation and better airtightness.



PRODUCT SPECIFICATIONS

Core thickness [mm]	Total height [mm]	R-value [m²K/W]	Rc-value [m²K/W]	Weight* [kg/m²]	Fire class [-]
80	115	4,02	3,99	14,8	B-s2,d0
100	135	5,01	4,92	15,6	B-s2,d0
125	160	6,10	6,06	16,6	B-s2,d0
150	185	7,20	7,17	17,6	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)
Coating:	Outer side: Polyester 25 mu (other coatings available upon request) Inner side: Polyester 25 mu (other coatings available upon request)
Steel thicknesses:	Outer sheet: 0,6 mm (standard) Inner sheet: 0,6 mm (standard)
Minimum length:	2.500 mm (shorter upon request)
Maximum length:	25.000 mm
Packing:	Protective foil is optional
Sounds insulation:	Circa 25 dB(A)
Application:	
CE-marking:	NEN-EN 14509
Tolerances:	NEN-EN 14509

FALK 1000 TR 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 table above are based on the assumptions below. Does the project-specific situation differ from these starting points? Or do you need 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: 0,6 mm (outer sheet)
e. Result class CC1: Agricultural buildings and industrial buildings up to 2 storeys in length
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 on request)
k. Roof inclination: 15 degrees

CROSS SECTION

From core thickness 100 mm, the panel is supplied with a hollow-and-hollow connection. The panels give each other much more support, are better positioned in relation to each other and have better airtightness.

