

Agri-coating

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



Fireproof

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



Save+

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Suitable for (food) storage areas with the required high insulation values and airtightness.



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.



FM-gecertificeerd This sandwich panel is FM certified.*

Zulassung This product complies with the German

* If you would like the FM certificate on your order, please make this known with your order so that we can take this into account during

CERTIFICATES

production.

Zulassung.











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.





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EXTRA WIDE & FIRE CLASS B

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FALK Bouwsystemen B.V.

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The sandwich panel for large surfaces

The FALK 1100 TR 3+ sandwich panel is suitable for a wide variety of construction and renovation projects. The panel has a working width of 1.1 meters and a maximum panel length of no less than 25 meters. The FALK 1100 TR 3+ effortlessly spans long distances, in certain situations more than 5 meters. You can easily close 27 m2 in one go.

Also suitable for Passive Building

The sandwich panel - with three-crown trapezoidal profile - achieves insulation values that exceed the Building Decree. And thanks to its high airtightness, the FALK 1100 TR 3+ is even suitable for Passive Construction. The technical possibilities are very diverse.

On homes, offices and conditioned spaces

The sandwich panel can be used, as a façade or roof, on homes, offices and conditioned spaces. It is also suitable for solar panel installation on your roof.

Fire resistant and long-life cycle

The insulation material has a high fire-resistant capacity and falls in fire class B-s2, d0. The panel also scores very well in terms of lifespan. The standard Colorcoat HPS200 Ultra® protective layer on the outer plate has an insured warranty of up to 40 years. The Colorcoat Prisma® is also covered by this Confidex® guarantee.



FALK 1100 TR 3+

PRODUCT SPECIFICATIONS

Core thickness [mm]	Total height [mm]	R-value [m²K/W]	Rc-value [m²K/W]	
40	70	2,10	2,07	
50 **	80	2,55	2,52	
60	90	3,02	2,99	
80	110	3,94	3,91	
100	130	4,85	4,82	
130	160	6,20	6,17	
150	180	7,10	7,07	

STANDARD VERSION

Working width:	1.100 mm
C.t.c. distance crowns:	367 mm
Profile height:	30 mm
Core insulation:	PIR-isolation core (CradleCore
End overlap:	With and without end overlay
Laying direction:	Left and right implementation
Coating:	Outer side: Colorcoat HPS200 Inner side: Polyester 25 mu (o
Steel thicknesses:	Outer sheet: 0,5 mm (standard Inner sheet: 0,4 mm (standard
Minimum length:	2.500 mm (shorter available u
Maximum length:	25.000 mm
Packing:	Supplied with protective foil (
Sound insulation:	Approximately 25 dB(A)
Light cassettes:	Available with core thickness
Application:	$\bigcirc \bigcirc$
CE-marking:	NEN-EN 14509
Tolerances:	NEN-EN 14509

** available on request

U-value [m²K/W]	Weight* [kg/m ²]	Fire class [-]	Fire resistance [min.]
0,48	9,8	B-s2,d0	-
0,39	10,2	B-s2,d0	-
0,33	10,6	B-s2,d0	EW60, EI20
0,25	11,4	B-s2,d0	EW90, EI30
0,20	12,2	B-s2,d0	EW90, EI30
0,16	13,4	B-s2,d0	EW90, EI30
0,14	14,2	B-s2,d0	EW90, EI30

FALK 1100 TR 3+ LOAD SPAN TABLE

	Wind zone 1			Wind zone 2			Wind zone 3	
[mm]	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 the 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 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 according NEN-EN 1991-1-4, building height up to 9 metres
- c. Determine the occurring wind load, a closed building the 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 2 storeys in length
- f. Strength and stiffness of sandwich panels according to NEN-EN 14509
- g. Colour group: 3 (dark colors like RAL 7016)
- h. A double field span (least favourable situation)
- i. Deflection: L/250
- j. Application: Roof (facade available on request)
- k. Roof angle: 15 degrees

<u>CROSS SECTION</u>

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.



e[®] available upon request)

available (max. 300 mm)

0 Ultra® (other coatings available upon request) other coatings available upon request)

1)

upon request)

(optional)

of 40 mm up to 80 mm in the same profiling