



## PRODUCT SPECIFICATIONS



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



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



**Preservation+**  
This version is especially developed for a durable and condensation free wall and roof construction.

### 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.**



### CERTIFICATES



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## PRODUCT SPECIFICATIONS FALK 1140 KV



# A FALK panel for temperature-controlled environments

Do you need a panel for construction of a cold storage room, climate chamber or cleaning room? The FALK 1140 KV is especially designed for extreme conditions. A perfect insulated environment can be realized.

## High thermal resistance

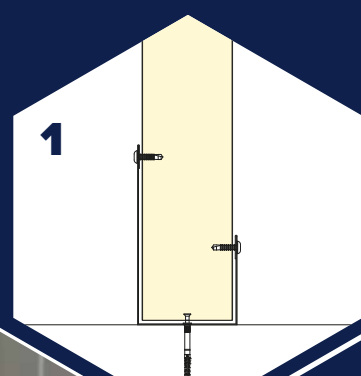
The FALK 1140 KV has a high thermal resistance of up to 9,33 m<sup>2</sup>.K/W means that heat or cold are well retained or repelled. The insulation core of this panel is available in thicknesses between 80-140 mm. There is also a unique seal between the panels with a working width of 1140 mm.

## A wide range of coatings

This panel is available in a wide range of coatings. These coatings make the panel resistant to the most common situations and ensure that you comply with the prescribed hygiene regulations.

## Connection

The cooling panel is available in maxirib, microrib and box profiles and can be mounted horizontally and vertically. The 100, 120, 140 and 200 mm thick KV panels have a specific connection that ensures a maximum insulation. The 80 mm panel has a unique, proprietary connection that is similar to the 'tongue-groove' connection.



1 internal wall detail



## FALK 1140 KV

### PRODUCT SPECIFICATIONS

\* 0,63/0,4 mm inner- and outer sheet

Core thickness [mm]	R-value [m <sup>2</sup> K/W]	Rc-value [m <sup>2</sup> K/W]	U-value [m <sup>2</sup> K/W]	Weight* [kg/m <sup>2</sup> ]	Fire class [-]	Fire Resistance [min.]
80	3,73	3,67	0,27	12,2	B-s1,d0	EW60
100	4,67	4,61	0,21	13,0	B-s1,d0	EW60, EI30
120	5,60	5,55	0,18	13,8	B-s1,d0	EW120, EI30
140	6,55	6,50	0,15	14,6	B-s1,d0	EW120, EI30
200	9,37	9,33	0,105	17,0	B-s1,d0	EW60, EI60

### STANDARD VERSION

<b>Working width:</b>	1.140 mm
<b>Profiling:</b>	Microrib-, Box- and Rail profiling
<b>Core insulation:</b>	PIR-insulating foam (CradleCore® available upon request)
<b>Coating:</b>	Outer side: Colorcoat HPS200 Ultra® (other coatings on request) Inner side: Polyester 25 mu (other coatings on request)
<b>Steel thicknesses:</b>	Outer sheet: 0.63 mm (standard) Inner sheet: 0.4 mm (standard)
<b>Minimum length:</b>	2.500 mm (shorter upon request)
<b>Maximum length:</b>	20.000 mm
<b>Packing:</b>	Supplied with protective foil on the outer sheet
<b>Sound insulation:</b>	Approximately 25 dB(A)
<b>Application:</b>	
<b>CE-marking:</b>	NEN-EN 14509
<b>Tolerances:</b>	NEN-EN 14509

### FALK 1140 KV 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]
80	4,24	3,93	3,40	4,49	4,16	3,61	4,80	4,42
100	4,75	4,41	3,80	5,03	4,66	4,05	5,37	4,95
120	5,30	4,91	4,16	5,59	5,19	4,51	5,98	5,51
140	5,81	5,41	4,50	6,11	5,70	4,94	6,51	6,03

This table is based on the Dutch requirements. For your own specific situation, please contact us.

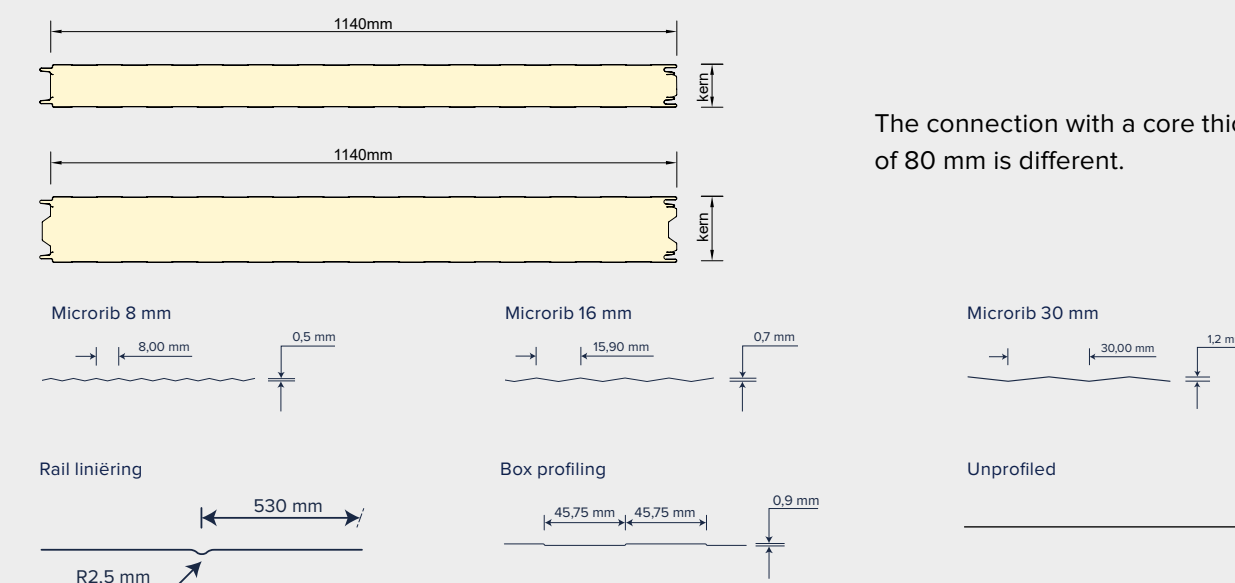
### Explanation of load span table

The permissible 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: (031 318) 670 670.

### Principles:

- Acceptable spans are in meters
- Wind zones and surroundings in accordance with NEN-EN 1991-1-4, building height up to 9 metres
- To determine of 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!)
- Thicknesses of steel sheets: 0.63 mm (outer sheet) and 0.4 mm (inner sheet)
- Result class CC1: Agricultural buildings and industrial buildings up to two storeys in height
- Strength and stiffness of the sandwich panels according to NEN-EN 14509
- Color group: 3 (dark colors like RAL 7016)
- A double field span (least favourable situation)
- Deflection: L/150.
- Application: Facade (outdoor use)

## CROSS SECTION



The connection with a core thickness of 80 mm is different.