



FIRE CLASSES

EASY SELECTION, GUARANTEE FIRE SAFETY

The fire resistance table allows you to select the right product and type of seam connection at a glance and is guaranteed to meet the project requirements.

We understand very well that, because of all the rules and exceptions surrounding the fireproofing of façades, you sometimes no longer know what to do and what not to do. In order to make it as simple as possible, together with Efectis we have listed the test results of all products for you.

In addition, together with Efectis, we looked at the fire resistance of our products in various situations. We have combined all this knowledge and experience in a table, in which you can easily read which products you use to meet the minimum project requirements.

Surely you can't figure it out? Don't hesitate to contact our Technology department at 0318 - 670 670 or via advies@falkbouwsystemen.nl.



For all your questions, pease visit falkbouwwystemen.en or call 0318-670 670.

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,

FALK, clever construction for a circular future

100% MADE IN HOLLAND



THE COMPLETE OVERVIEW

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THEME FLYER

Fire resistance
SANDWICH PANELS

EXPLANATION TABEL
FIRE RESISTANCE

1 Determine the desired fire resistance
For example EW30 from inside to outside and EI30 from outside to inside. Don't you know? Then take a look at the construction drawings or in the specifications, ask the architect or contact our Technology Department on 0318 - 670 670.

2 Determine the desired span
The span of a sandwich panel influences the fire resistance. It is therefore important to choose the right product thickness and seam connection that corresponds to the maximum project span.

3 Select the correct product section in the table
Choose the right section in the table that corresponds to your product of choice.

4 Find the matching thickness and seam connection
In the table you can now look up which seam connection and core thickness you need as a minimum to meet the fire resistance requirement in the project situation.

EXAMPLE

1	2	3	4
Fire demand: EW60	Span 3.800 mm	FALK FACADE 1000 TR	Connection: A

RESULT
FALK FACADE 1000 TR, thickness 60/95 mm with connection A.

TABEL FIRE RESISTANCE FALK
SANDWICH PANELS

	Thickness	Core	Span 3000 mm (1)	Span 4000 mm (2)	Connection (4)
FALK 1000 TR	60 t/m 150 mm	PIR	E60, EI20, EW60	E60, EI20, EW60	A
	80 t/m 150 mm	PIR	E90, EI30, EW90	E60, EI30, EW90	A[1]
FALK 1100 TR 3+	60 t/m 150 mm	PIR	E60, EI20, EW60	E60, EI20, EW60	A
	80 t/m 150 mm	PIR	E90, EI30, EW90	E60, EI30, EW90	A[1]
FALK 1000 GL	60 t/m 120 mm	PIR	E60, EI20, EW60	E60, EI20, EW60	B
	80 t/m 120 mm	PIR	E90, EI30, EW90	E60, EI30, EW90	B[1]
FALK 1060 WB	80 t/m 160 mm	PIR	E60, EW60	E60, EW60	C
	100 t/m 160 mm	PIR	E30, EI30, EW30	E30, EI30, EW30	D
	≥ 160 mm	PIR	E60, EI60, EW60	E60, EI60, EW60	E
FALK 1140 KV	80 t/m 200 mm	PIR	E30, EW30	E30, EW30	F
	80 t/m 200 mm	PIR	E60, EW60	E60, EW60	G
	100 t/m 200 mm	PIR	E60, EI30, EW60	E60, EI30, EW60	G
	120 t/m 200 mm	PIR	E30, EI30, EW30	E30, EI30, EW30	F
	120 t/m 200 mm	PIR	E120, EI30, EW120	E120, EI30, EW120	G
	≥ 200 mm	PIR	E60, EI60, EW60	E60, EI60, EW60	H

(3)

Flame density (E)
This criterion means, as the word indicates, that during a fire in the wall there must be no openings through which hot / unburned gases / flames can pass through the wall.

Thermal insulation (I)
This criterion specifies that in the event of fire, the temperature rise on the non-directly heated side is limited to a maximum of 140°C (average) and a maximum of 180°C (local).

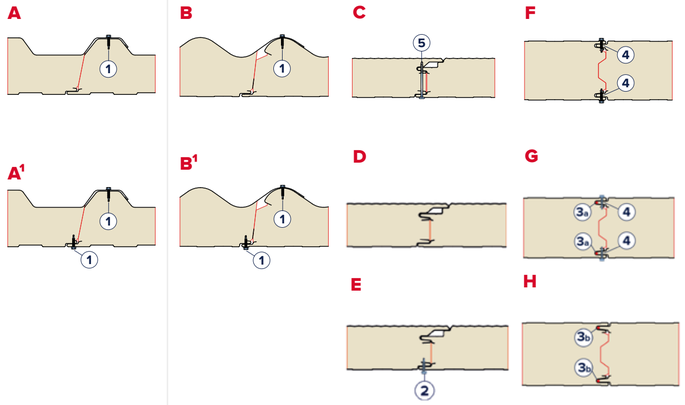
Heat radiation (W)
This criterion lays down that in the event of a fire, the heat radiation emitted on the non-directly heated side shall be limited to a maximum of 15 kW/m2 at a distance of 1 metre from the structure.

For info: for the implementation of the different types of seam connections, see overleaf.

OFFICIALLY ACCEPTED
CONNECTIONS



FALK 1000 TR or TR3+	FALK 1000 GL	FALK 1060 WB	FALK 1140 KV



LEGEND

1. Self-tapper 4,8 X 25 c.t.c. 300 mm
2. Self-tapper 4,8 X 20 c.t.c. 250 mm
3. Nullifire fire resistant graphite sealant FS709
3. Nullifire fire resistant sealant FS703
4. Self-tapper 5,5 X 27 c.t.c. 250 mm
5. Panel screw 5,5 X L c.t.c. 300 mm

L = Length screw

