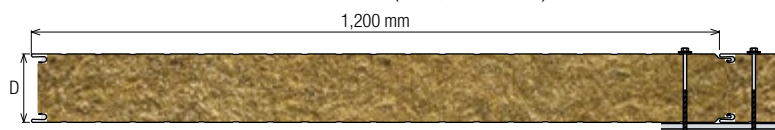




INSULATED PANELS Product Overview



AST® L/S/S+/F/F+/E (wall, visible fix)



- External profiling: Micro, Line 150, Line 200, Line 600, Smooth
- Interior profiling: Line 150, Line 200, Line 600, Smooth
- Max. production length: 12.00 m
- Modular width: 1,200 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m ² K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class, max ²⁾ (horizontal/vertical)	R _w (dB)
AST® L	80	15	0.45	A2-s1,d0	NPD	27–32
	100	17	0.37		EI 120 / EI 180	
	120	18	0.30			
	150	21	0.24			
	175	22	0.21			
	200	24	0.18			
	240	27	0.15			
	300	31	0.12			
AST® S 	80	17	0.48	A2-s1,d0	EI 30 / EI 30	
	100	19	0.38		EI 60 / EI 60	
	120	21	0.32		EI 90 / EI 90	
	150	23	0.26		EI 180 / EI 180	
	175	25	0.22			
	200	28	0.19		EI 240 / EI 240	
	240	32	0.16			
	300	37	0.13			
AST® S+	100	19	0.38	A2-s1,d0	EI 120 / EI 120	
	120	21	0.32			
AST® F 	80	19	0.53	A2-s1,d0	EI 45 / EI 90	
	100	21	0.43		EI 45 / EI 120	
	120	24	0.36			
	150	27	0.29		EI 240 / EI 240	
	175	30	0.25			
	200	33	0.22			
	240	38	0.18			
	300	45	0.14			
AST® F+	100	21	0.43	A2-s1,d0	EI 120 / EI 120	
	120	24	0.36			
AST® E 	50	16	0.77	A2-s1,d0	EI 45 / EI 45	
	80	19	0.53		EI 45 / EI 90	
	100	22	0.43		EI 45 / EI 120	
	120	24	0.36			
	150	28	0.29		EI 240 / EI 240	
	175	31	0.25			
	200	34	0.22			
	240	39	0.18			
	300	47	0.14			

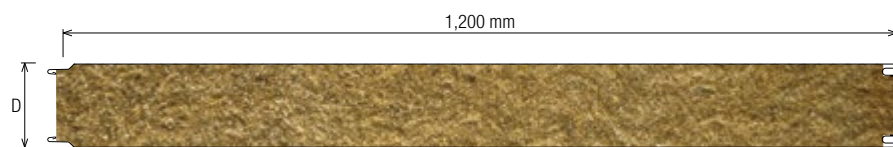
AST® S acoustic (wall, visible fix)



- External profiling: Line 150, Line 200, Line 600, Smooth
- Interior profiling: Perforated
- Max. production length: 12.00 m
- Modular width: 1,200 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m ² K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class	Sound reduction (dB)		
						R _w	R _w +C	R _w +C _{tr}
AST® E	50	16	0.77	B-s1,d0	NPD	33	–	–
AST® S	80	17	0.48			32	29	28
	100	19	0.38				–	–
	120	21	0.32				29	28
	150	23	0.26				–	–
	175	25	0.22			31	–	–
	200	28	0.19			30	29	27
	240	32	0.16			29	–	–
	300	37	0.13					

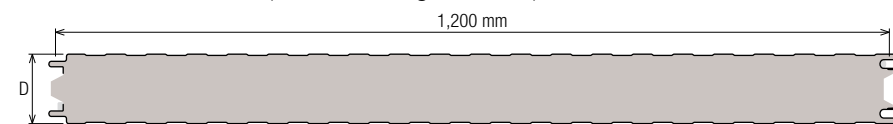
AST® E (ceiling, visible fix)



- External profiling: Micro, Line 150, Line 200, Line 600, Smooth
- Interior profiling: Line 150, Line 200, Line 600, Smooth
- Max. production length: 12.00 m
- Modular width: 1,200 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m²K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class, max ²⁾ (horizontal/vertical)	R _w (dB)
AST® E 	50	16	0.77	A2-s1,d0	NPD	27–32
	80	19	0.53		EI 60	
	100	22	0.43		EI 180	
	120	24	0.36			
	150	28	0.29			
	175	31	0.25			
	200	34	0.22			
	240	39	0.18			
	300	47	0.14			

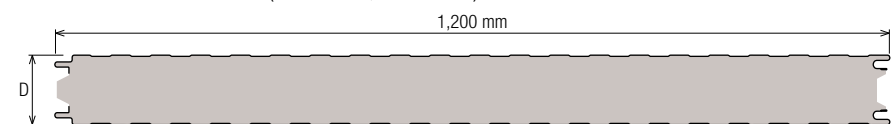
QuadCore® R (wall and ceiling, visible fix)



- External profiling: Box, Minibox, Micro, Micro 50, Line 200, Smooth
- Interior profiling: Box, Minibox, Deep Minibox
- Max. production length: 15.00 m
- Modular width: 1,200 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m ² K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class, max ²⁾ (horizontal)	R _w (dB)
QuadCore® R	80	11.69	0.23	B-s1,d0	–	25–27
	103	12.49	0.18			
	120	13.29	0.16			
	150	14.49	0.13			
	170	15.29	0.11			
	200	16.49	0.10			

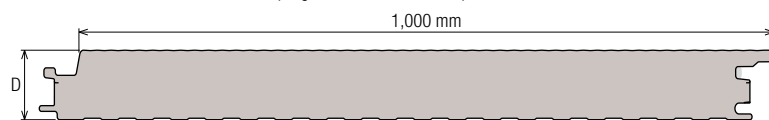
QuadCore® C (coldstore, visible fix)



- External profiling: Box, Minibox, Micro, Micro 50, Line 200, Smooth
- Interior profiling: Box, Minibox, Deep Minibox
- Max. production length: 15.00 m
- Modular width: 1,200 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m ² K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class, max ²⁾ (horizontal)	R _w (dB)
QuadCore® C	80	11.69	0.24	B-s1,d0	NPD	25–27
	103	12.49	0.18		EI 30	
	120	13.29	0.16			
	150	14.49	0.13			
	170	15.29	0.11		EI 60	
	200	16.49	0.10			

QuadCore® M (façade, hidden fix)



- External profiling: Box, Micro, Micro 50, Line 200, Smooth
- Interior profiling: Box, Minibox, Deep Minibox
- Max. production length: 15.00 m
- Modular width: 1,000 mm

Panel Type	Element thickness (D) mm	Dead load (kg/m ²) ³⁾	U-value (W/m ² K) acc. EN 14509 ¹⁾	Reaction to fire acc. EN 13501-1 ²⁾	Fire resistance class, max ²⁾ (horizontal)	R _w (dB)
QuadCore® M	100	12.77	0.19	–	–	26
	150	14.77	0.13			

Notes:

NPD No performance determined (not tested)

1) U-values including surface resistance R_{si}+R_{se} = 0.17 m²K/W and the influence of joints.

2) The maximum achievable fire resistance is given. In terms of fire behaviour, AST panels are classified in Euroclass A2-s1,d0 and QuadCore panels in B-s1,d0. Exceptions are Paroc Print panels, which are rated C-s1,d0 and acoustic panels, which are not fire resistant. For more information on details and spans, please contact Paroc Panel Systems/Technical Support.

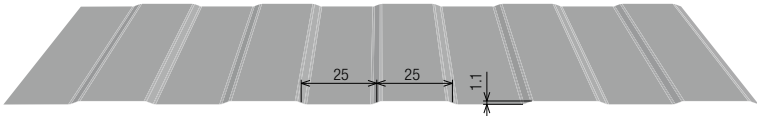
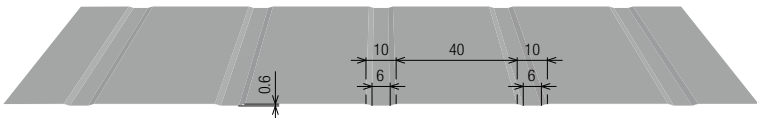
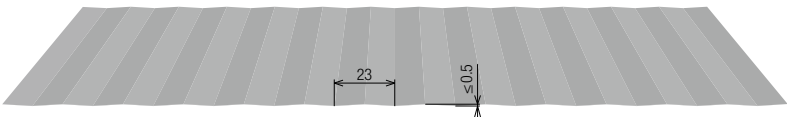
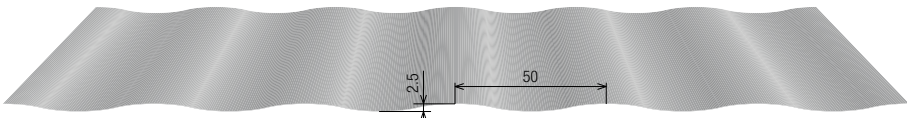
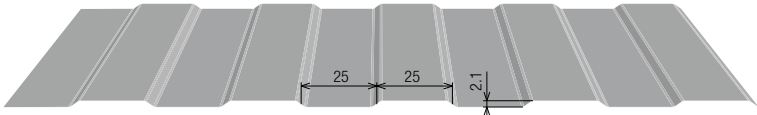
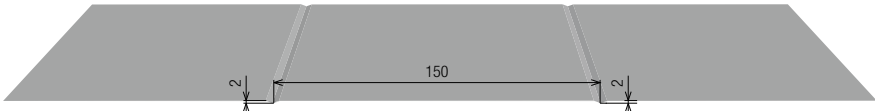
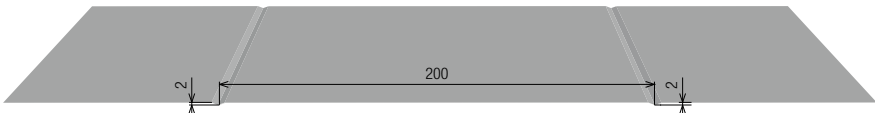
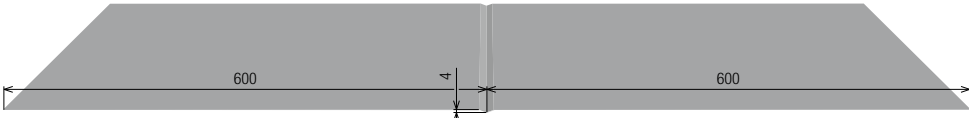
3) Panels with standard facings.

4) Steel thickness for smooth profiling of AST panels min. 0.6 mm. For smooth profiling of QuadCore panels, please contact Paroc Panel System/Technical Support.

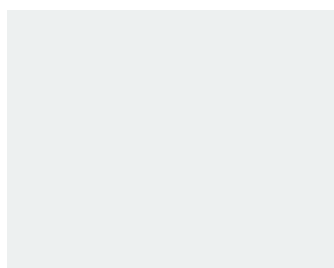
The information provided in this technical data is subject to technical modifications.

Details of features can be guaranteed only as far as these are explicitly confirmed in writing on a case by case basis.

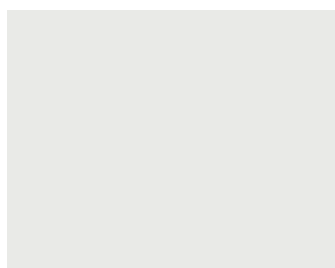
Profilations

Profiling	Dimensions/Used on panel
Minibox	QuadCore® R QuadCore® C QuadCore® M 
Box	QuadCore® R QuadCore® C QuadCore® M 
Micro	AST® L/S/S+/F/F+/E AST® E QuadCore® R QuadCore® C QuadCore® M 
Micro 50	QuadCore® R QuadCore® C QuadCore® M 
Smooth	AST® L/S/S+/F/F+/E AST® S acoustic AST® E QuadCore® R QuadCore® C QuadCore® M 
Deep Minibox	QuadCore® R QuadCore® C QuadCore® M 
Line 150	AST® L/S/S+/F/F+/E AST® S acoustic AST® E 
Line 200	AST® L/S/S+/F/F+/E AST® S acoustic AST® E QuadCore® R QuadCore® C QuadCore® M 
Line 600	AST® L/S/S+/F/F+/E AST® S acoustic AST® E 

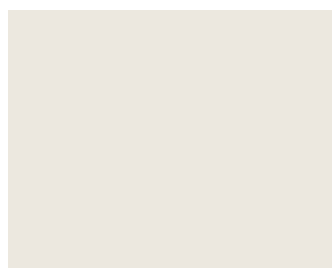
Standard Colours



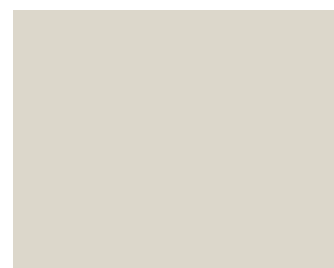
Bright White FS-1
FoodSafe 0,5/0,6



Pure White 0101
PVDF 0,6/Polyester 0,5/0,6/0,7



Howlite White 0020
PU 0,6/Polyester 0,5/0,6/0,7



Howlite Grey 9002
PVDF 0,6/Polyester 0,5/0,6



Goldstone Red 0029
PVDF 0,6



Agate Blue 0035
PVDF 0,6



Agate Grey 0021
PVDF 0,6/Polyester 0,5/0,6



Moonstone 7035
PVDF 0,6



Silver 9006
PVDF 0,6



Silver Matt 9006M
Matt PVDF 0,6



Dark Silver 9007
PVDF 0,6



Dark Silver Matt 9007M
Matt PVDF 0,6



Graphite Grey 7024
PU 0,6



Graphite Grey Matt 7024M
Matt PVDF 0,6



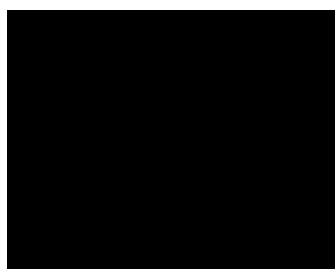
Hematite Silver 0045
PVDF 0,6



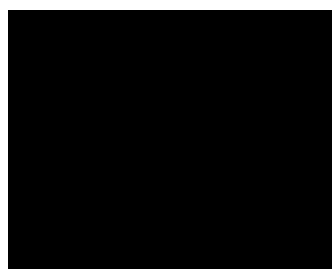
Hematite Silver Matt 0045M
Matt PVDF 0,6



Onyx 7016
PVDF 0,6



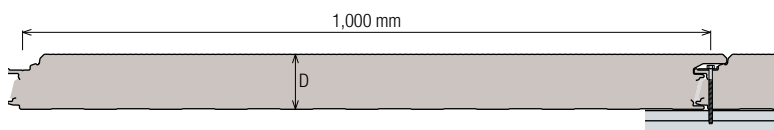
Jet 9005
PU 0,6



Jet Matt 9005M
PVDF 0,6

Hoesch isowand vario® (wall, hidden fix)

POWERED BY
QuadCore®
TECHNOLOGY



- External profiling: M, F, C, L (47 mm)
- Interior profiling: Q, F
- Std. delivery length: 3.00 – 13.50 m
- max. production length: 15 m
- Modular width: 1,000 mm
- Insulation core: Available with QuadCore®
- Std. cover steel thickness outside (t_{nom1}): 0.60 mm**
- Std. cover steel thickness inside (t_{nom2}): 0.50 mm**

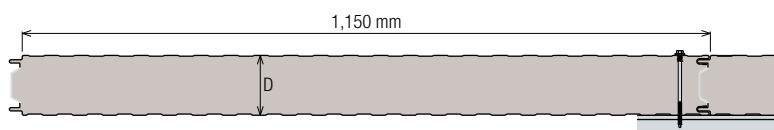
Element thickness (D) mm	Dead load (kg/m²)	U-value (W/m²K)			Fire behaviour						R _w (dB)
		acc. EN 14509 incl. joint influence	acc. EN ISO 6946		Classification reaction to fire acc. EN 13501-1	Fire resistance class for use as wall acc. to EN 13501-2					
						Exterior wall		Internal wall			
						vertical	horizontal	vertical	horizontal		
60*	12.1	0.42	0.35	FM 4881	B-s1,d0	—				27	
80	12.9	0.29	0.27			EI 30-ef (o→i) E 30 (o←i)	—	—			
100	13.7	0.23	0.21								
120	14.5	0.19	0.18								
140	15.2	0.16	0.15			EI 30 (o↔i) EW 30 (o↔i)		EI 30 EW 30			

* standard delivery length: 3.10 – 13.50 m

** other steel thicknesses on request

Hoesch® Thermowand HF* (wall, visible fix)

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TECHNOLOGY



- External profiling: Q, B, M, E, W
- Interior profiling: Q, D
- Std. delivery length: 3.00 – 13.50 m
- max. production length: 18.00 m
- Modular width: 1,000, **1,150** mm
- Insulation core: Available with QuadCore®
- Std. cover steel thickness outside (t_{min}): 0.60 mm
- Std. cover steel thickness inside (t_{min}): 0.40 mm**

Element thickness (D) mm	Dead load (kg/m²)	U-value (W/m²K)			Fire behaviour			R _w (dB)		
		acc. EN 14509 incl. joint influence	acc. EN ISO 6946		Classification reaction to fire acc. EN 13501-1	Fire resistance class acc. to EN 13501-2				
						Exterior wall	Internal wall			
40	10.2	0.59	0.52	FM 4881	B-s2,d0	-	-	24		
60	10.9	0.36	0.35		B-s1,d0			25		
80	11.7	0.27	0.27						26	
100	12.5	0.22	0.21							27
120	13.2	0.18	0.18							
150	14.4	0.15	0.14							
170	15.1	0.13	0.13							
200	16.3	0.11	0.11							

* Supplied with factory-applied sealing tape

** Other steel thicknesses on request

The specifications are only valid for selected sheet thicknesses. Subject to technical modifications. The information provided in this technical data is subject to technical modifications. Details of features can be guaranteed only as far as these are explicitly confirmed in writing on a case by case basis.

POWERED BY
QuadCore®
TECHNOLOGY

More thermal efficiency less ordinary design.



Hoesch® isorock vario (wall, hidden fix)

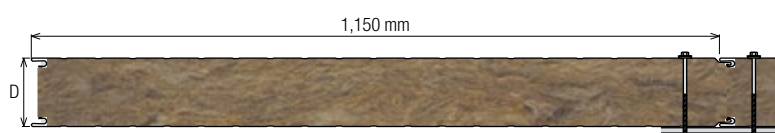


- External profiling: Q, M, E, F, C
- Interior profiling: Q, B, F
- Std. delivery length: 3.00 – 13.50 m
- max. production length: on request
- Modular width: 1,000 mm
- More modular widths: on request
- Std. cover steel thickness outside (t_{nom1}): 0.75 mm*
- Std. cover steel thickness inside (t_{nom2}): 0.50 mm*

Element thickness (D) mm	Dead load (kg/m²)		U-value (W/m²K)					Fire behaviour												R _w (dB)
			Classification reaction to fire acc. EN 13501-1	Fire resistance class acc. EN 13501-2 [‡]																
				acc. EN 14509 incl. joint influence				acc. EN ISO 6946												
	Mineral wool				Exterior wall				Internal wall											
Type S1	Type S2	Type S1	Type S2	Type S1	Type S2	Type S1	Type S2	Type S1		Type S2		Type S1		Type S2						
								vertical	horiz.	vertical	horiz.	vertical	horiz.	vertical	horiz.					
80	19.1	21.8	0.53	0.60	0.48	0.54	FM 4881	A2-s1,d0	–		–	EI 240-ef (o→i)	–		–					
100	21.1	24.5	0.42	0.47	0.39	0.44					EI 30 (o↔i)	–					EI 30	–		
120	23.1	27.2	0.35	0.39	0.33	0.37			–	EI 120-ef (o→i) E 120 (o↔i)	EI 60 (o↔i)	EI 90 (o↔i)	EI 60	EI 90						
140	25.1	29.9	0.30	0.34	0.28	0.32					EI 120 (o↔i)									
150	26.1	31.2	0.28	0.31	0.26	0.30														
175	28.6	34.6	0.24	0.27	0.23	0.26														
200	31.1	37.9	0.21	0.24	0.20	0.23														

* other steel thicknesses on request

Hoesch® isorock HP (wall, visible fix)



- External profiling: Q, E, F
- Interior profiling: Q, B, F
- Std. delivery length: 3.00 – 13.50 m
- max. production length: 14.3 m from 100 mm thickness
- Modular width: 1,000, 1,150, 1,200 mm
- More modular widths: on request
- Std. cover steel thickness outside (t_{nom1}): 0.60 mm*
- Std. cover steel thickness inside (t_{nom2}): 0.50 mm*

Element thickness (D) mm	Dead load (kg/m²)		U-value (W/m²K)				Fire behaviour										R _w (dB)
			acc. EN 14509 incl. joint influence		acc. EN ISO 6946		Classification reaction to fire acc. EN 13501-1		Fire resistance class acc. to EN 13501-2								
									Exterior wall				Internal wall				
	Mineral wool				Type S1		Type S2		Type S1		Type S2						
	Type S1	Type S2	Type S1	Type S2	Type S1	Type S2	Type S1	Type S2	vert.	horiz.	vert.	horiz.	vert.	horiz.	vert.	horiz.	
80	18.4	18.8	0.54	0.54	0.52	0.52	A2-s1,d0	–		–		–		–		32	
100	20.7	21.2	0.44	0.44	0.42	0.42		–				–					
120	23.0	23.6	0.37	0.37	0.36	0.36		–				–					
150	26.4	27.2	0.29	0.29	0.29	0.29		–				–					
175	29.3	30.2	0.25	0.25	0.25	0.25		–				–					
200	32.2	33.2	0.22	0.22	0.22	0.22		–				–					

* other steel thicknesses on request

Hoesch® isorock HP akustik** (wall, visible fix)



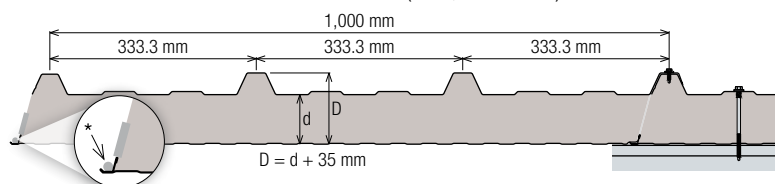
- External profiling: Q, M, E, F
- Interior profiling: F (perforated)
- Std. delivery length: 2.00 m – 8.00 m
- max. production length: 14.3 m
- Modular width: 1,000, 1,150, 1,200 mm
- More modular widths: on request
- Std. cover steel thickness outside (t_{nom1}): 0.50 mm*
- Std. cover steel thickness inside (t_{nom2}): 0.60 mm*

Element thickness (D) mm	Dead load (kg/m²)	U-value (W/m²K)		Fire behaviour	R _w (dB)
		acc. EN 14509 incl. joint influence	acc. EN ISO 6946	Classification reaction to fire acc. EN 13501-1	
		Mineral wool			
		Type S1	Type S1		
80	17.2	0.54	0.52	A2-s1,d0	35
100	19.5	0.44	0.42		
120	21.8	0.37	0.36		
140	24.1	0.32	0.31		
150	25.3	0.29	0.29		

* other steel thicknesses on request

** for indoor application only

Hoesch® isodach RD (roof, visible fix)



- External profiling: trapezoidal
- Interior profiling: Q
- Std. delivery length: 3.00 – 13.50 m
- max. production length: 22.5 m
- Max. cut back: 300 mm
- PVC sealing tape in overlap joint – factory made
- Std. cover steel thickness outside (t_{nom1}): 0.50 mm***
- Std. cover steel thickness inside (t_{nom2}): 0.40 mm***

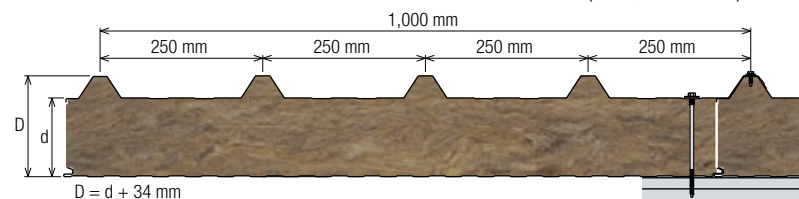
Minimum roof pitch application	Core thickness (d) mm	Dead load (kg/m²)	U-value (W/m²K)				Fire behaviour		R _w (dB)
			acc. EN 14509 incl. joint influence		acc. EN ISO 6946		Classification reaction to fire acc. EN 13501-1	Fire resistance class acc. to EN 13501-2	
			IPN	IPN 1	IPN	IPN 1			
 4 ° (7 %) 6 ° (10 %)	25	9.4	0.78	–	0.74	–	B-s1,d0	–	26
	40	10.0	0.52	–	0.49	–			
	60	10.5	–	0.33	–	0.32	B-s2,d0	REI 30**	
	80	11.2		0.25	–	0.24			
	100	11.9		0.21	–	0.20			
	120	12.6		0.17	–	0.17			
	140	13.3		0.15	–	0.14			
	160	13.9		0.13	–	0.13			

* with additional sealing tape on-site

** For element thicknesses > 100 mm, please observe item 6.2 of the classification report.

*** other steel thicknesses on request

Hoesch® Thermorock Dach FG (roof, visible fix)



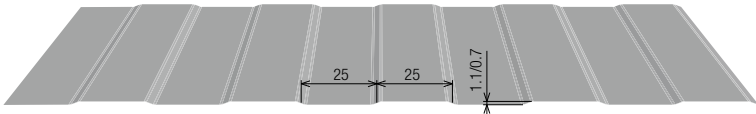
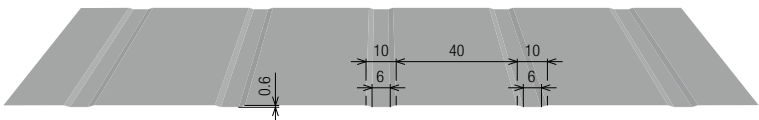
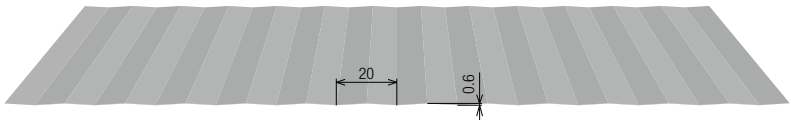
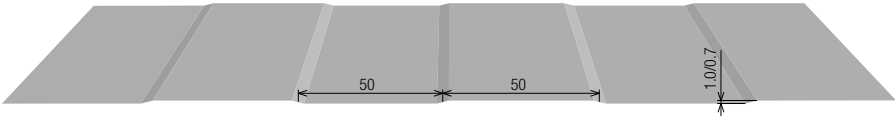
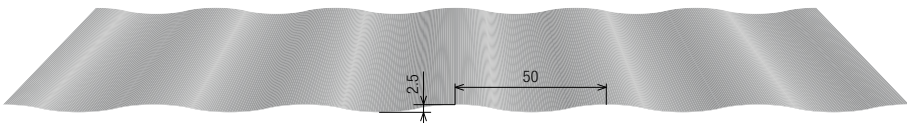
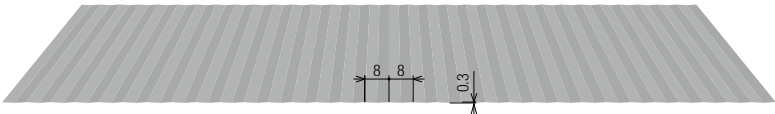
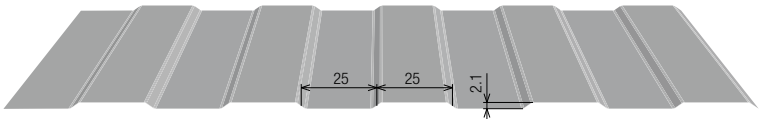
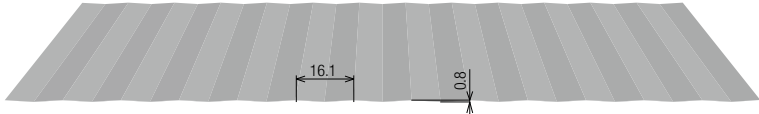
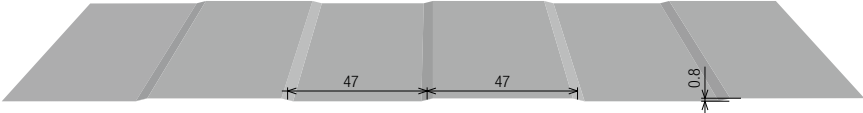
- External profiling: trapezoidal
- Interior profiling: Q
- Std. delivery length: 3.00 – 13.00 m
- max. production length: 13.00 m
- Max. cut back: 300 mm
- Std. cover steel thickness outside (t_{nom1}): 0.60 mm
- Std. cover steel thickness inside (t_{nom2}): 0.50 mm

Minimum roof pitch application	Core thickness (d) mm	Dead load (kg/m²)	U-value (W/m²K)		Fire behaviour		R _w (dB)
			acc. EN 14509 incl. joint influence	acc. EN ISO 6946	Classification reaction to fire acc. EN 13501-1	Fire resistance class acc. to EN 13501-2	
			Mineral wool				
5 ° (8.7 %) 8 ° (14.1 %)	80	20.5	0.53	0.49	A2-s1,d0	REI 90	32
	100	22.9	0.43	0.40		REI 120	33
	120	25.3	0.36	0.34			
	150	28.9	0.29	0.27			
	175	31.9	0.25	0.24			
	200	32.8	0.22	0.21			

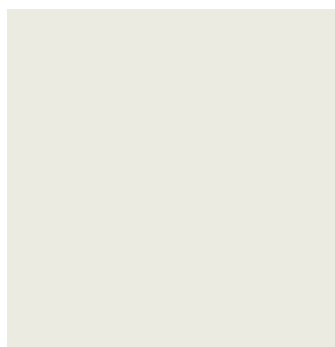
The information provided in this technical data is subject to technical modifications.

Details of features can be guaranteed only as far as these are explicitly confirmed in writing on a case by case basis.

Profilations

Profiling	Dimensions/Used on panel
Q (minibox)	Hoesch isowand vario® Hoesch® Thermowand HF Hoesch® isorock vario Hoesch® isorock HP Hoesch® isorock HP akustik 
B (box)	Hoesch® isorock vario Hoesch® isorock HP Hoesch® Thermowand HF 
M (micro)	Hoesch isowand vario® Hoesch® isorock vario Hoesch® Thermowand HF Hoesch® isorock HP Hoesch® isorock HP akustik 
E (eurobox)	Hoesch® isorock vario Hoesch® isorock HP Hoesch® isorock HP akustik Hoesch® Thermowand HF 
W (wave)	Hoesch® Thermowand HF 
F (flat)	Hoesch isowand vario® Hoesch® isorock vario Hoesch® isorock HP Hoesch® isorock HP akustik 
C (micro Hoesch 8 mm)	Hoesch isowand vario® Hoesch® isorock vario 
D (deep minibox)	Hoesch® Thermowand HF 
V (V-profile)	Hoesch isowand vario® 
L (Linear)	Hoesch isowand vario® 

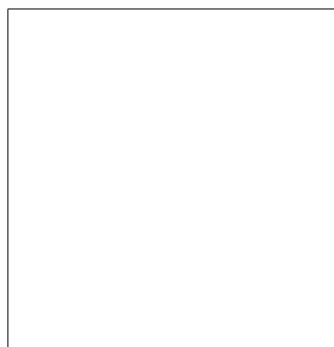
Standard colours



PES 9002



PES 9006



PES 9010



PES 3000
(RD)



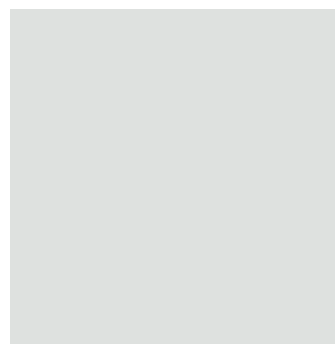
PES 3009
(RD)



PES 5010
(RD, NF)



PES 6020
(RD, NF)



PES 7035
(RD, IV, HW, NF, HH)



PES 7016



PES 8004
(RD)



PES 9007



Spectrum 9006
(RD, NF)



Spectrum 9007
(RD, NF)



Spectrum 7016
(RD, NF)



Spectrum 3009
(RD)

¹⁾ Please note delivery time and minimum order quantity. Other colours and coatings available on request.

ems-isolier® QuadCore EM

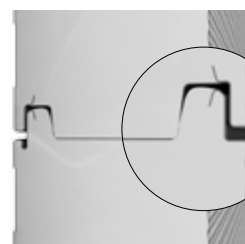
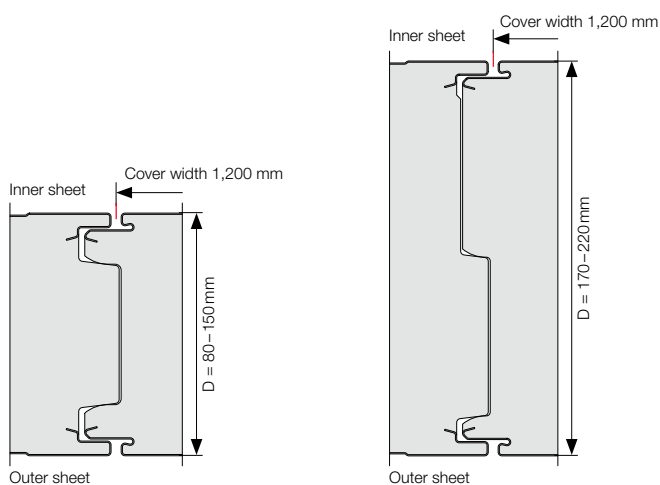


POWERED BY
QuadCore
TECHNOLOGY

- External profiling: L, H, V, F, G
- Interior profiling: L, H, D, F, G
- External steel sheets: Standard coating SP 25 µm
- Internal steel sheets: Standard coating DU 15 µm
- Max. production length: 20 m, lengths less than 2 m on request
- Modular width: 1,150 mm (other widths on request)
- Std. cover steel thickness outside (t_{nom1}): 0.60 mm
- Std. cover steel thickness inside (t_{nom2}): 0.50 mm

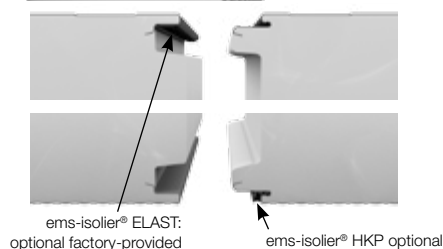
Module width [mm]	1,150									
Core thickness [mm]	40	60	80	100	120	140	150	170	200	220
Fire resistance class acc. to EN 13501-2	up to max. EI 60*									
U [W/m²K]* according to EN ISO 6946	0.45	0.31	0.23	0.19	0.16	0.13	0.13	0.11	0.09	0.09
R [m²K/W] according to EN ISO 6946	2.05	3.10	4.15	5.21	6.26	7.31	7.84	8.89	10.47	10.95
U [W/m²K]* acc. to EN 14509 (2013-12) incl. joint influence	0.51	0.33	0.24	0.19	0.16	0.14	0.13	0.11	0.10	0.09
R [m²K/W] acc. to EN 14509 (2013-12) incl. joint influence	2.05	3.10	4.15	5.20	6.25	7.30	7.80	8.85	10.45	10.95
Weight [kg/m²]	10.9	11.7	12.4	13.2	14.0	14.7	15.1	15.9	17.0	17.68
Classification reaction to fire acc. EN 13501-1	B-s2,d0									
R _w [dB]	25									
Max. Available Length [m]	20									

* based on classification report No. L1-20-067



Horizontal joint (optional)

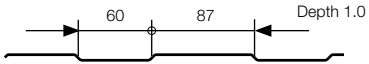
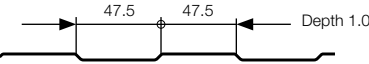
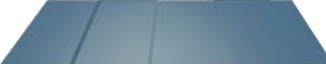
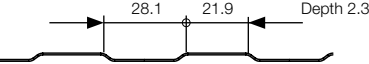
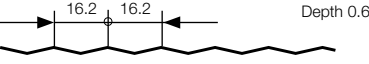
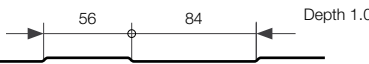
The inclination of the groove flank avoids the penetration of rainwater when the elements are laid horizontally.



Note: Deviation in colour and colour changes on the cut surface of the QuadCore® insulation core are based on weather influence. While panels are stored outside UV-light might modify the colour of the core. This does not affect the quality of the panel and is no reason for complaint. The information provided in this technical data sheet is subject to technical modifications. Details of features can be guaranteed only as far as these are explicitly confirmed in writing on a case by case basis. Brand Sales of ems. www.ems-bau.com



Profilations

Profiling	Outer sheet	Inner sheet	
L Slightly profiled 	✓	✓	
H Slightly profiled 	✓	✓	
D deep Profile 		✓	
V V-profiled 	✓		
F Flat 	on request	on request	
G Slightly profiled 	✓	✓	

Nominal dimensions in mm, tolerances in accordance with works specifications.

Standard shades

Type of panel		Wall/Ceiling	
		ems-isolier® QuadCore EM	
Width module		1,150 mm	
Steel thickness		0.50 mm	0.60 mm
Stainless steel	V2A 1.4301	✓	
PEI (DU)	9002	✓	✓
PES (SP)	9001	✓	✓
	9002	✓	✓
	9006		✓
	9010	✓	✓
LMF	9001		✓
	9003		✓
	9010		✓
FS 4000	9002		✓
	9010		✓

More colours on request.

SafeDefence Protection Systems

Our Safe Defence Protection Systems consist of a high performance synthetic polymer technology designed to protect people, equipment and assets from impact.

The range includes:

- ▶ KPSPost for the protection of walls, doors and corners.
- ▶ KPS Trim to protect the base of corners and columns.
- ▶ KPSPail for the protection of people in areas of forklift and other mobile machinery.
- ▶ KPSBarrier-S, KPSBarrier-D and KPSBarrier-H to protect walls, columns and other objects at varying heights.
- ▶ KPSPGoalpost for door perimeter protection.

Testing

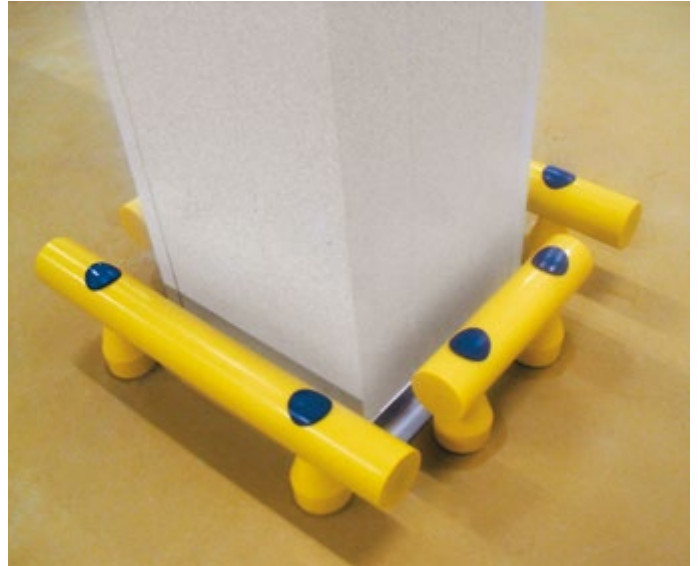
SafeDefence Protection Systems have been subjected to robust independent impact testing to determine the force they can withstand and their respective deflection. Test results indicate that the protection system's elastic/flexible design outperforms many comparable systems.

Materials

Protection systems are manufactured from either solid high performance synthetic polymer technology or our latest high performance flexible protection technology, FLEXsafe.

All products are located and installed independent of the elements to be protected, removing the risk of damage from impact transmission.

Hygienic and easy to clean, low maintenance and carrying food-quality certification, these high performance synthetic polymer protection systems typically contain 40% recycled material and have been designed to suit all industries.



KPSBarrier-S



KPSPost



KPSBarrier-H



KPSTrim



KPSPail

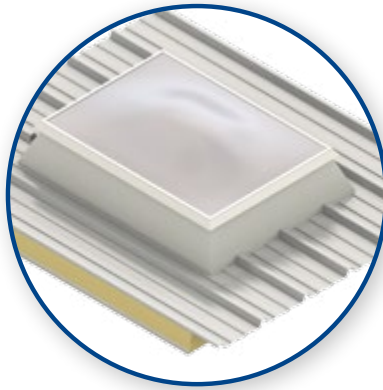


KPSBarrier-D

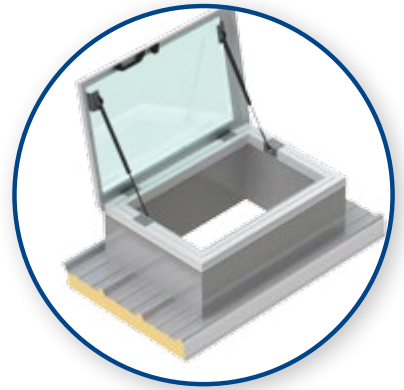
DAYLIGHT- AND VENTILATION SOLUTIONS



Rooflight



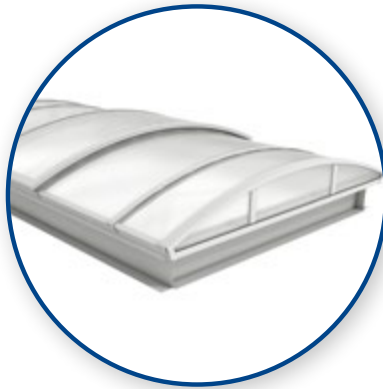
Lightdome



Built-In Hatch



Built-In Velux Window

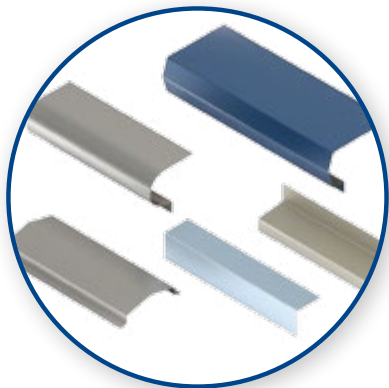


Lightdomes

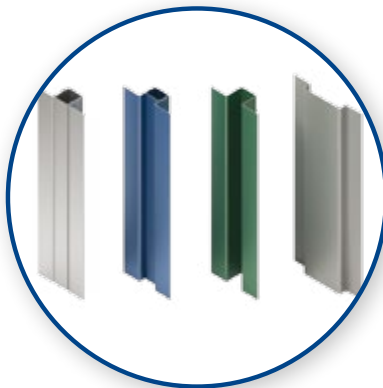


Louvres

FIXINGS AND AESTHETIC ELEMENTS



Flashings

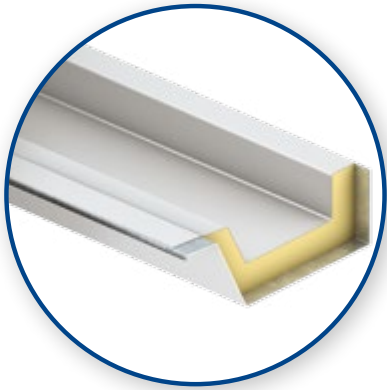


Top hats

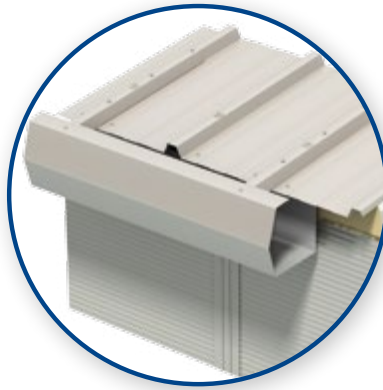


Fixings

INSULATED GUTTER SYSTEMS

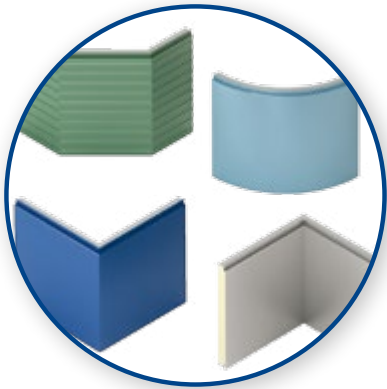


Insulated gutters

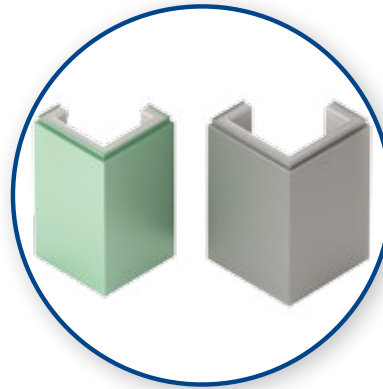


Highline Gutter

INSULATED CORNER ELEMENTS

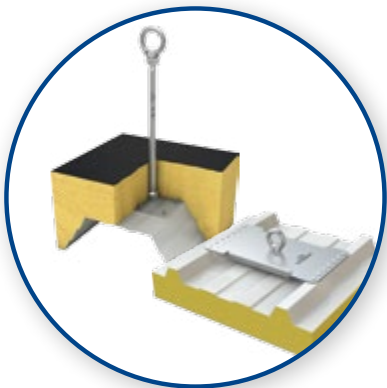


Insulated Corners



Column Casings and Facings

SAFETY AND SPECIAL SOLUTIONS



Safety Solutions



Barriersystems
KPSBarrier S/D/H



Barriersystems
KPSPost