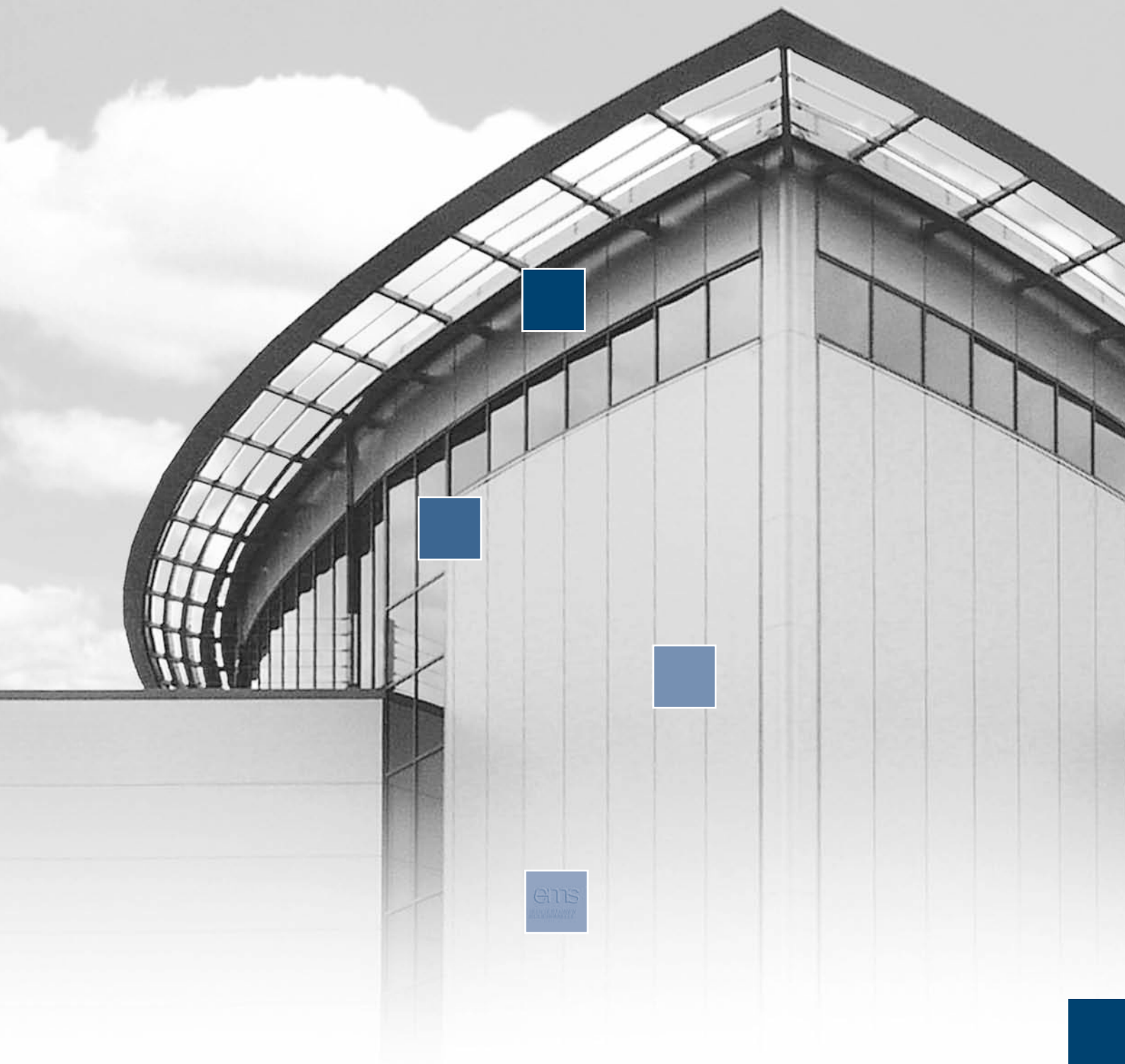


# ThyssenKrupp Bausysteme

CreativeLine, SpecialLine, ClassicLine, ArcticLine - Building with steel.

Technical information



A company  
of ThyssenKrupp  
Steel

## ThyssenKrupp Bausysteme



ThyssenKrupp

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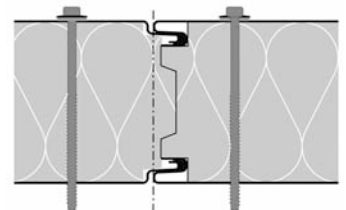
Designation of building element	Type	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**	
			outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>							
Hoesch isorock®	D0	60	0.50	0.75	16.0	14.0	1.44	0.62	1.40	0.65	
					16.0	18.3					
		80			16.0	15.8	1.93	0.48	1.90	0.50	
					16.0	20.1					
		100			16.0	17.6	2.41	0.39	2.40	0.40	
					16.0	21.9					
		120			16.0	19.4	2.90	0.33	2.90	0.34	
					16.0	23.7					
140	16.0	21.2	3.39	0.28	3.35	0.29					
	15.7	25.5									
160	16.0	23.0	3.88	0.25	3.85	0.25					
	14.7	27.3									
180	16.0	24.8	4.37	0.22	4.35	0.23					
	13.8	29.1									
200	15.1	26.5	4.85	0.20	4.85	0.21					
	13.0	30.8									
Hoesch isorock®	D1	60	0.50	0.75	16.0	14.6	1.37	0.65	1.35	0.67	
					16.0	18.9					
		80			16.0	16.6	1.84	0.50	1.80	0.52	
					16.0	20.9					
		100			16.0	18.6	2.30	0.40	2.30	0.42	
					16.0	22.9					
		120			16.0	20.6	2.77	0.34	2.75	0.35	
					16.0	24.9					
140	16.0	22.6	3.23	0.29	3.20	0.30					
	14.9	26.9									
160	16.0	24.6	3.70	0.26	3.70	0.27					
	13.9	28.9									
180	15.1	26.6	4.16	0.23	4.15	0.24					
	13.0	30.9									
200	14.1	28.5	4.63	0.21	4.60	0.21					
	12.2	32.8									
Hoesch isorock®	D2	60	0.50	0.75	16.0	16.0	1.31	0.68	1.30	0.70	
					16.0	20.4					
		80			16.0	18.5	1.76	0.52	1.75	0.54	
					16.0	22.9					
		100			16.0	21.0	2.20	0.42	2.20	0.43	
					15.8	25.4					
		120			16.0	23.5	2.64	0.36	2.60	0.37	
	14.4	27.9									
140	15.4	26.0	3.09	0.31	3.05	0.32					
	13.2	30.4									
160	14.0	28.5	3.53	0.27	3.50	0.28					
	12.2	32.9									

Element thickness d = 150 mm, longer versions or other combinations of material thickness on request

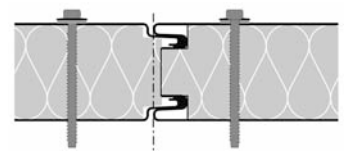
\* calculation acc. to EN ISO 6946 \*\* calculation acc. to EN 13 162 taking account of the joints acc. to EN 14 509

Profiling of cover sheet	Slightly profiled (L)	Micro-profiled (M)	V-profiled (V)	Flat (E)
outer sheet	●	●	●	■
inner sheet	●			■

● = available ■ = on request



for element thickness d ≥ 80 mm



for element thickness d = 60 mm



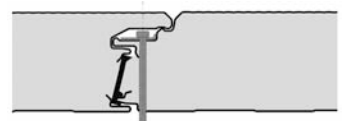
up to 120 min fire resistance available

## Hoesch isowand vario®

## CreativeLine

Designation of building element	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
		outer sheet t <sub>N</sub>	Inner sheet t <sub>N</sub>						
Hoesch isowand vario®	60	0.50	0.50	20	11.3	2.57	0.37	2.55	0.42
	80				12.1	3.43	0.28	3.40	0.31
	100				12.9	4.30	0.22	4.30	0.24

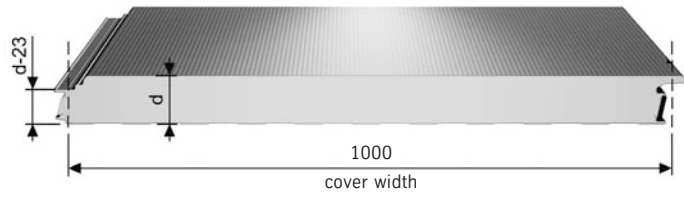
\* calculating acc. to EN ISO 6946 \*\* calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509



concealed fastening

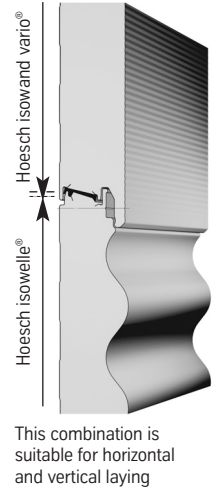
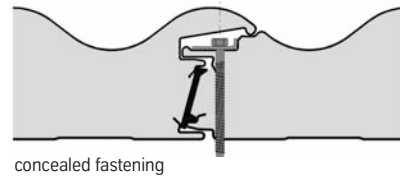
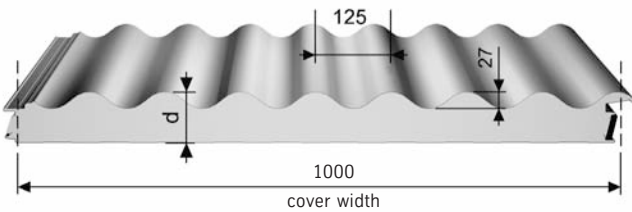
Profiling of cover sheet	Slightly profiled (L)	Microprofiled (M)	V-profiled (V)
outer sheet	●	●	●
inner sheet	●		

● = available

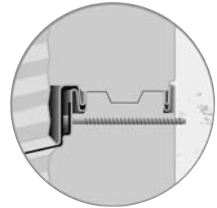


Designation of building element	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
		outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>						
Hoesch isowelle®	64	0.60	0.75	20	14.5	2.11	0.44	2.10	0.51
	84				15.3	2.98	0.32	2.95	0.36
	104				16.1	3.85	0.25	3.85	0.27

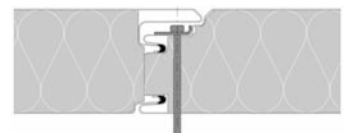
\* calculating acc. to EN ISO 6946 \*\* calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509



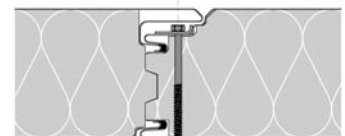
Designation of building element	Type	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
			outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>						
Hoesch isorock® vario	D0	80	0.50	0.50	16.0	15.9	1.93	0.48	1.90	0.53
					16.0	20.4	2.41	0.39	2.40	0.42
					16.0	17.7	2.41	0.39	2.40	0.42
					16.0	22.2	2.41	0.39	2.40	0.42
Hoesch isorock® vario	D1	80	0.50	0.50	16.0	16.9	1.84	0.50	1.80	0.55
					16.0	18.9	2.30	0.40	2.30	0.44
					16.0	23.4	2.30	0.40	2.30	0.44
					16.0	20.9	2.77	0.34	2.75	0.36
					15.7	25.4	2.77	0.34	2.75	0.36
					16.0	22.9	3.23	0.29	3.20	0.31
					14.6	27.4	3.23	0.29	3.20	0.31
					16.0	23.9	3.47	0.28	3.45	0.29
14.0	28.4	3.47	0.28	3.45	0.29					
Hoesch isorock® vario	D2	80	0.50	0.50	16.0	18.8	1.76	0.52	1.75	0.57
					16.0	23.3	2.20	0.42	2.20	0.46
					16.0	21.3	2.20	0.42	2.20	0.46
					15.5	25.8	2.64	0.36	2.60	0.38
					16.0	23.8	2.64	0.36	2.60	0.38
					14.1	28.3	3.09	0.31	3.05	0.32
					15.2	26.3	3.09	0.31	3.05	0.32
					13.0	30.8	3.53	0.27	3.50	0.28
13.9	28.8	3.53	0.27	3.50	0.28					
12.0	33.3	3.53	0.27	3.50	0.28					



concealed fastening



for element thickness d = 80 mm



for element thickness d ≥ 100 mm

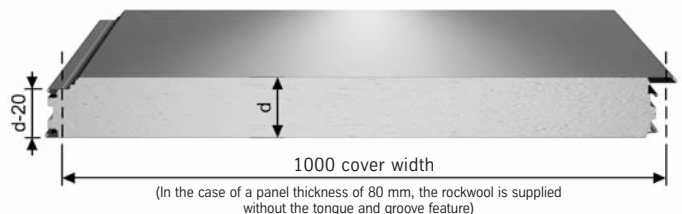


up to 90 min fire resistance available

Other cover sheet combinations such as outside / inside = 0.75 / 0.50 are available as a standard  
 Element thickness d = 150 mm, longer versions or other material combinations on request  
 \* calculation acc. to EN ISO 6946 \*\* calculation acc. to EN 13 162 taking account of the joints acc. to EN 14 509

Profiling of cover sheet	Slightly profiled (L)	Microprofiled (M)	V-profiled (V)	Flat (E)
outer sheet	●	●	●	■
inner sheet	●			■

● = available ■ = on request

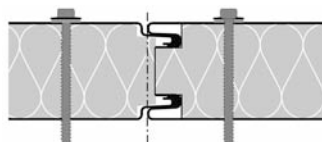


Designation of building element	Type	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>0</sub> **	Heat transfer coefficient U**	Weighted sound reduction index R <sub>w</sub>
			outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>							
Hoesch isorock® akustik	D1	60	0.50	0.75	16.0	13.5	1.37	0.65	1.35	0.67	34
		80			16.0	15.5	1.84	0.50	1.80	0.52	
		100			16.0	17.5	2.30	0.40	2.30	0.42	
		120			16.0	19.5	2.77	0.34	2.75	0.35	
		140			16.0	21.5	3.23	0.29	3.20	0.30	
		150			15.3	22.5	3.47	0.28	3.45	0.28	
		160			14.7	23.5	3.70	0.26	3.70	0.27	
		180			13.7	25.5	4.16	0.23	4.15	0.24	
		200			12.9	27.4	4.63	0.20	4.60	0.21	

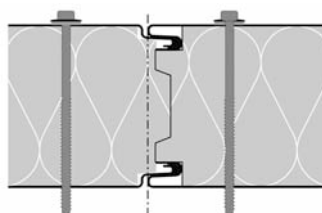
Element thickness d = 150 mm, longer versions or other material combinations on request  
 \* calculation acc. to EN ISO 6946 \*\* calculation acc. to EN 13 162 taking account of the joints acc. to EN 14 509

Profiling of cover sheet	Slightly profiled (L)	Microprofiled (M)	V-profiled (V)	Flat (E)
outer sheet	●	●	●	■
inner sheet				●

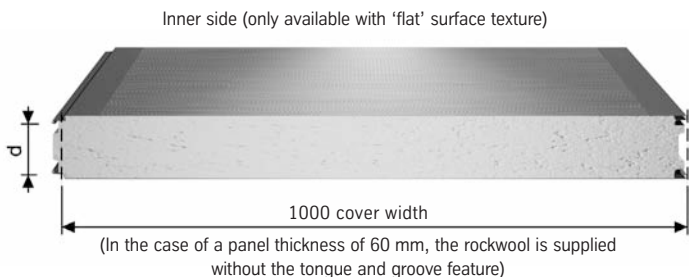
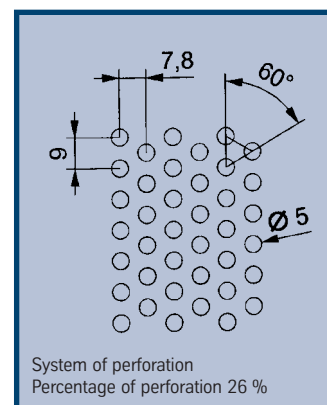
● = available      ■ = on request



Joint design for element thickness d = 60 mm



Joint design for element thickness d ≥ 80 mm



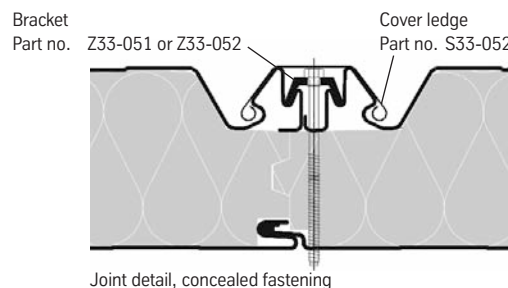
Hoesch isorock® integral D

Designation of building element	Type	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>0</sub> **	Heat transfer coefficient U**
			outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>						
Hoesch isorock® integral D	D1	95	0.50	0.75	18.0	18.0	2.19	0.42	2.15	0.46
		115			18.0	20.0	2.65	0.35	2.65	0.38
		135			16.3	24.5	3.12	0.30	3.10	0.32
		155			15.1	26.5	3.58	0.27	3.55	0.28

Other element thickness or other material combinations on request  
 \* calculating acc. to EN ISO 6946 \*\* calculating acc. to EN 13 162 taking account of the joints acc. to EN 14 509

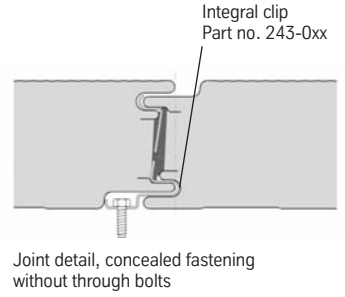


up to 90 min fire resistance available



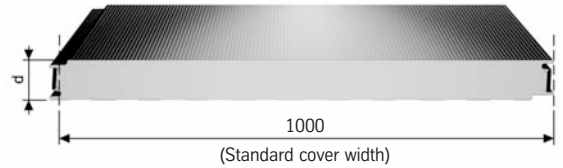
Designation of building element	Cover width	Element thickness	Material thickness		Max. length supplied	Weight	Thermal resistance	Heat transfer coefficient	Thermal resistance	Heat transfer coefficient	Heat transfer coefficient
			outer sheet	inner sheet							
	mm	mm	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	m <sup>2</sup> K/W	W/m <sup>2</sup> K	W/m <sup>2</sup> K
Hoesch isowand integral®	1000 (standard)	60	0.55	0.55	20	12.1	2.56	0.37	2.55	0.42	0.43
		80				12.9	3.43	0.28	3.40	0.30	0.31
		100				13.7	4.30	0.22	4.30	0.24	0.25
		120				14.4	5.17	0.19	5.15	0.20	0.20
	600 (on request)	60	0.55	0.55	20	12.7	2.56	0.37	2.55	0.45	0.46
		80				13.5	3.43	0.28	3.40	0.31	0.33
		100				14.3	4.30	0.22	4.30	0.25	0.26
		120				15.1	5.17	0.19	5.15	0.21	0.22

\* calculating acc. to EN ISO 6946 \*\* calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509  
 \*\*\* like \*\* but taking also account of the brackets (every second meter) Other cover widths, material thicknesses or types of sheet material on request.



Profiling of cover sheet	Slightly profiled (L)	Microprofiled (M)	V-profiled (V)	Flat (E)
outer sheet	●	●	●	●
inner sheet	●			■

● = available ■ = on request



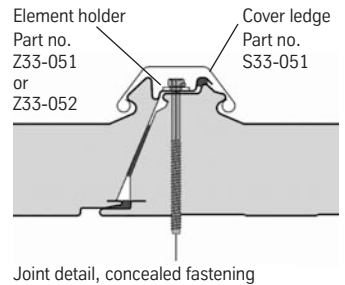
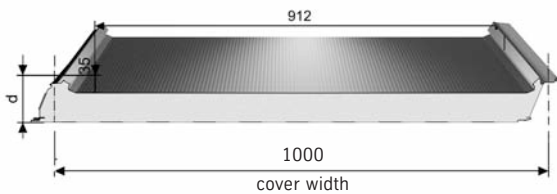
# Hoesch isodach mono®

Designation of building element	Element thickness	Material thickness		Max. length supplied	Weight	Thermal resistance	Heat transfer coefficient	Thermal resistance	Heat transfer coefficient
		outer sheet	inner sheet						
	d	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	m <sup>2</sup> K/W	W/m <sup>2</sup> K
Hoesch isodach mono®	95	0.55	0.50	24	11.6	2.64	0.36	2.60	0.38
					13.3				
	115	0.75	0.50	12.4	3.51	0.27	3.50	0.29	
		14.1							
135			13.1	4.38	0.22	4.35	0.23		
14.8									

\* calculation acc. to EN ISO 6946 \*\* calculation acc. to EN 13 165 taking account of the joints acc. to EN 14 509

Profiling of cover sheet	Slightly profiled (L)	Microprofiled (M)
outer sheet	●	●
inner sheet	●	

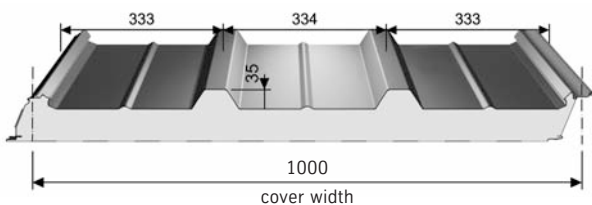
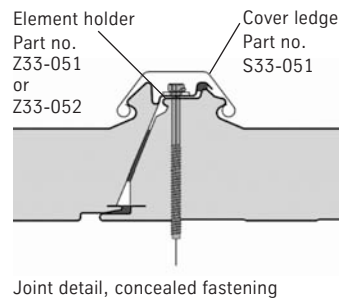
● = available



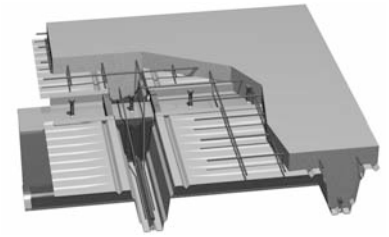
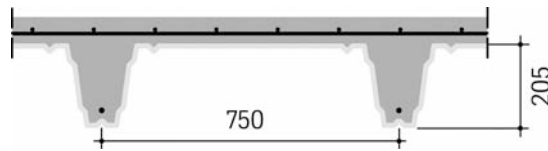
# Hoesch isodach integral®

Designation of building element	Element thickness	Material thickness		Max. length supplied	Weight	Thermal resistance	Heat transfer coefficient	Thermal resistance	Heat transfer coefficient
		outer sheet	inner sheet						
	d	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	m <sup>2</sup> K/W	W/m <sup>2</sup> K
Hoesch isodach integral®	75	0.50	0.40	24	9.9	1.89	0.49	1.85	0.56
	13.1								
	95				10.7	2.78	0.34	2.75	0.38
	13.9								
115	11.5	3.66	0.26	3.65	0.29				
14.7									
135	12.2	4.54	0.21	4.50	0.23				
15.4									

\* calculation acc. to EN ISO 6946 \*\* calculation acc. to EN 13 165 taking account of the joints acc. to EN 14 509

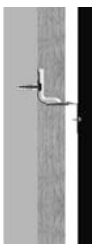
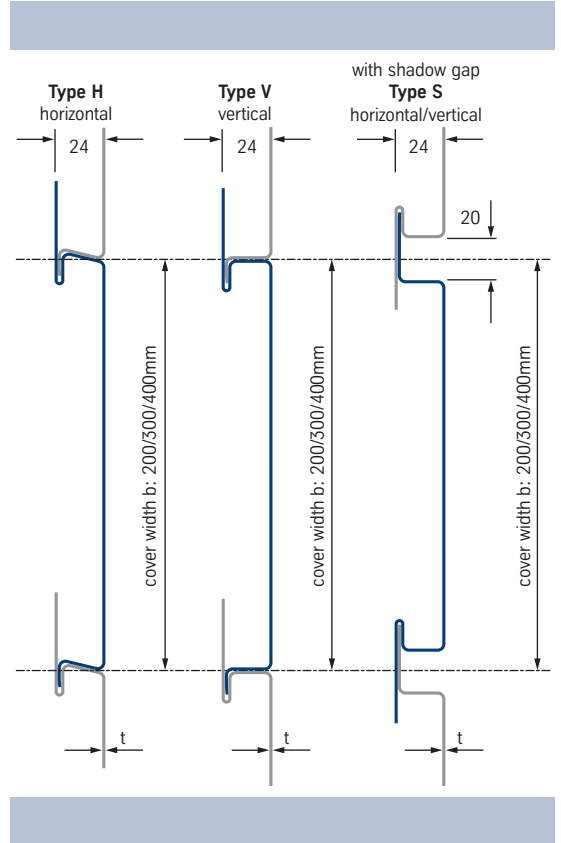


Hoesch Additive Floor section	
Material thickness $t_N$	Section weight
mm	kg/m <sup>2</sup>
1.00	12.8
1.25	16.0
1.50	19.2

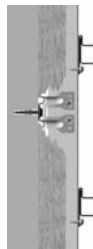


Designation of building element	Cover width	Material thickness $t_N$ Flat (E)	Max. length supplied	Height of section h
	b			
	mm	mm	m	mm
HPL 200	200	0.75 0.88 1.00	8.0	24
HPL 300	300	0.88 1.00		
HPL 400	400	1.00		

- Joint design: H only for horizontal laying, V only for vertical laying, S with shadow gap for horizontal and vertical laying
- Surface finish: E for flat surface
- Optionally with or without folded ends



**Vertical laying (Type V)**  
Fastening to horizontal supporting structure. Laying is also possible with shadow gap (Type S).



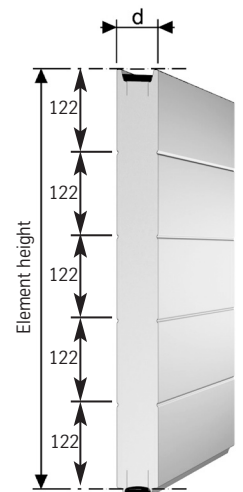
**Horizontal laying (Type S)**  
Fastening to vertical supporting structure. Please note that the laying direction is from top to bottom.



**Horizontal laying (Type H) and fastening to a rail which is part of the system**  
Each panel is fastened to one fixed point only.

Designation of building element	Element thickness d	Element height	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
			outer sheet	inner sheet						
			$t_N$	$t_N$						
Hoesch Sectiotec®	39	488	0.50	0.50	20	11.1	1.65	0.55	1.65	0.59
		610				10.7				
		732				10.5				
	60 <sup>1</sup>	488				11.8	2.57	0.37	2.55	0.40
		610				11.5				
		732				11.3				
	80 <sup>1</sup>	488				12.5	3.43	0.28	3.40	0.30
		610				12.2				
		732				12.0				

\* calculating acc. to EN ISO 6946 \*\* calculating acc. to test report no. P7-242/2004 with account of the longitudinal joints of the panels <sup>1</sup> on request



Profiling of cover sheet	Stucco-patterned	Woodgrain	Grooved (N)	Microprofiled (M)	V-profiled* (V)	Flat (E)
outer sheet	●		●	●	●	●
inner sheet			●			●

● = available \*also stucco-patterned

Designation of building element	Element thickness d	Element height	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
			outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>						
Hoesch Sectiotec® plus	39.5	500	0.50	0.50	20	11.4	1.67	0.54	1.45	1.12
		610				11.0				1.02
		732 <sup>1</sup>				10.8				0.96

\* calculating acc. to EN ISO 6946 \*\* calculating acc. to test report no. P7-242/2004 with account of the longitudinal joints of the panels <sup>1</sup> on request



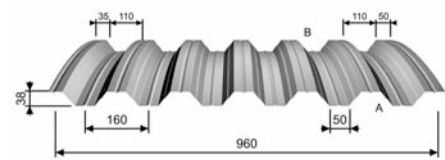
Profiling of cover sheet	Stucco-patterned	Woodgrain	Grooved (N)	Microprofiled (M)	V-profiled* (V)	Flat (E)
outer sheet	●	●	●	●	●	●
inner sheet			●			●

● = available \*also stucco-patterned

Hoesch Arched Roof

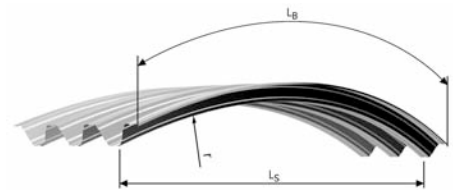
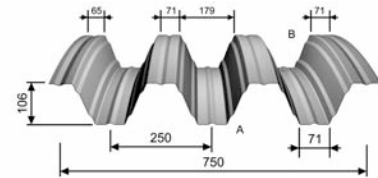
Designation of building element	Material thickness t <sub>N</sub>	Arch radius R	Dead weight	Arch length L <sub>B</sub>
	mm	m	kg/m <sup>2</sup>	m
HP 41 B	0.75	≥ 8.00	7.81	max. 16.00 <sup>1)</sup>
	0.88	≥ 6.00	9.17	
	1.00	≥ 4.50	10.42	
	1.25	≥ 4.00	13.02	
	1.50	≥ 4.00	15.63	

<sup>1)</sup> Lengths up to 18 m on request, depending on site conditions

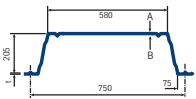
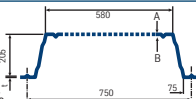


Designation of building element	Material thickness t <sub>N</sub>	Arch radius R <sup>1)</sup>	Dead weight	Arch length L <sub>B</sub>
	mm	m	kg/m <sup>2</sup>	m
HP 107 B	0.75	≥ 30.00	10.00	max. 24.00
	0.88	≥ 22.00	11.73	
	1.00	≥ 13.00	13.33	
	1.25	≥ 11.00	16.67	
	1.50	≥ 10.00	20.00	

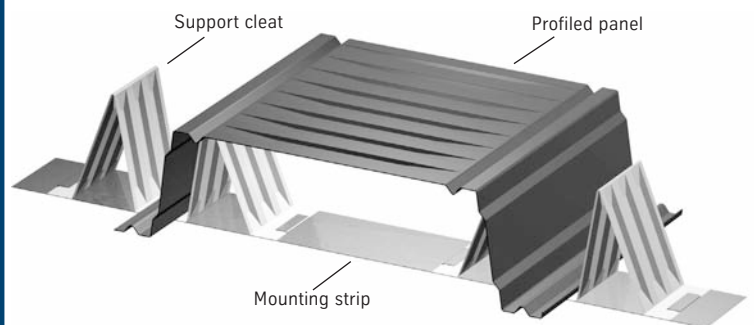
Please specify the A and B side (underside and top side) in case of different coatings.  
<sup>1)</sup> Please be aware about a max. radius of 35 m



Hoesch Roof System 2000

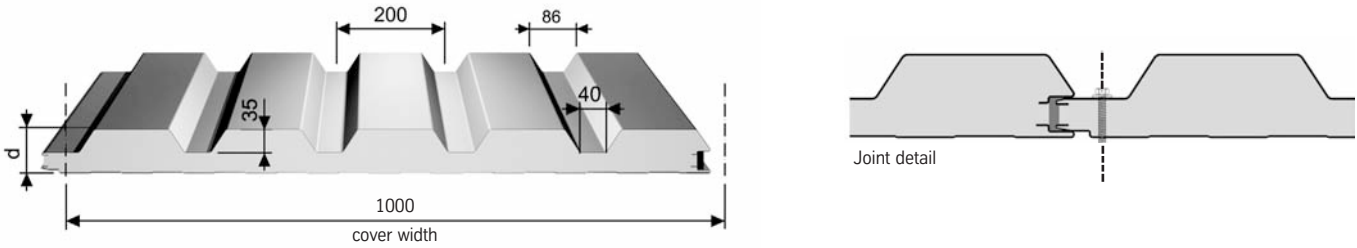
Profiled panels Please observe the A and B side!	Max. length supplied	Material thickness t <sub>N</sub>	Weight of profiled panel
	m	mm	kg/m <sup>2</sup>
TRP 200 profile 	24	0.75	9.60
		0.88	11.30
		1.00	12.80
		1.25	16.00
		1.50	19.20
Profiled sheets upper flange perforated 	24	0.75	8.36
		0.88	9.84
		1.00	11.20
		1.25	14.00
Percentage of perforation 16 %.		1.50	16.00

Installation only with support cleats (ref. K32-011/-013/-014/-016) and mounting strip (ref. K32-021, K32-023).  
Please specify the A and B side (underside and upside) in the case of different coatings.



Designation of building element	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> *	Heat transfer coefficient U**
		outer sheet <sup>1)</sup> t <sub>N</sub>	inner sheet <sup>1)</sup> t <sub>N</sub>						
Hoesch Thermowand TL	mm	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	m <sup>2</sup> K/W	W/m <sup>2</sup> K
	66	0.50	0.40 0.50	24	10.5 11.3	2.14	0.43	2.10	0.58
96	11.6 12.5				3.53	0.27	3.50	0.35	

<sup>1)</sup> Other material thicknesses for steel cover sheets on request Official approval no. Z-10.4-345  
<sup>\*</sup> calculating acc. to EN ISO 6946 <sup>\*\*</sup> calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509



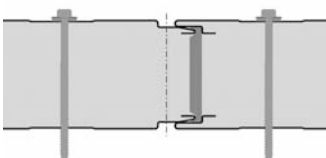
Hoesch Thermowand / Hoesch Thermowand 1000

Designation of building element	Element thickness d	Material thickness		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
		outer sheet <sup>1)</sup> t <sub>N</sub>	inner sheet <sup>1)</sup> t <sub>N</sub>						
Hoesch Thermowand / Hoesch Thermowand 1000	mm	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	m <sup>2</sup> K/W	W/m <sup>2</sup> K
	40	0.50 0.50	0.40 0.50 <sup>2)</sup>	20	9.1 10.0	1.70	0.53	1.70	0.56
	60				9.9 10.8	2.57	0.37	2.55	0.38
	80				10.7 11.5	3.44	0.28	3.40	0.29
	100				11.5 12.3	4.31	0.22	4.30	0.23
120	12.3 13.2				5.18	0.19	5.15	0.19	

<sup>1)</sup> Other material thicknesses for steel cover sheets on request Official approval no. Z-10.4-345  
<sup>2)</sup> no standard, available on request <sup>\*</sup> calculating acc. to EN ISO 6946 <sup>\*\*</sup> calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509

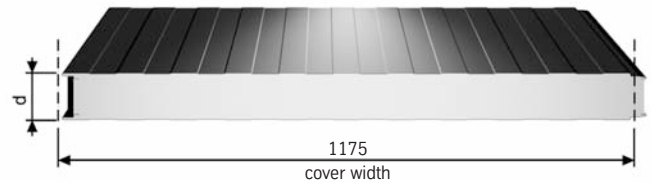
Profiling of cover sheets	Slightly profiled (L)	Mikroprofiled (M)
outer sheet	●	●
inner sheet	●	

● = available

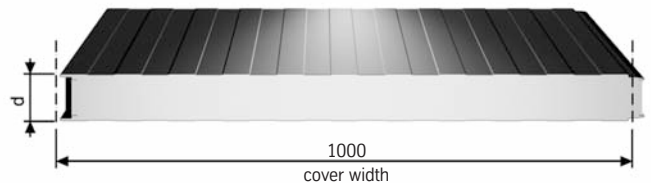


Joint design

Hoesch Thermowand



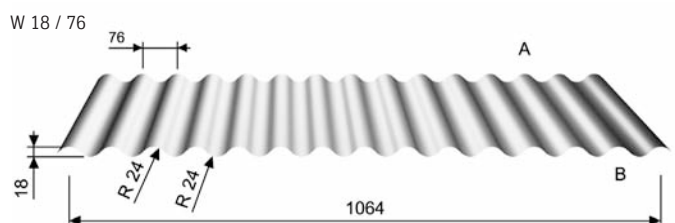
Hoesch Thermowand 1000



Hoesch Corrugated profile

Material	Designation of building element	Module width	Material thickness	Weight	Max. length supplied
Steel <sup>2)</sup>	W 18/76	1064	0.63 <sup>1)</sup>	5.92	12.0
			0.75	7.05	
			0.88 <sup>1)</sup>	8.27	
			1.00 <sup>1)</sup>	9.40	

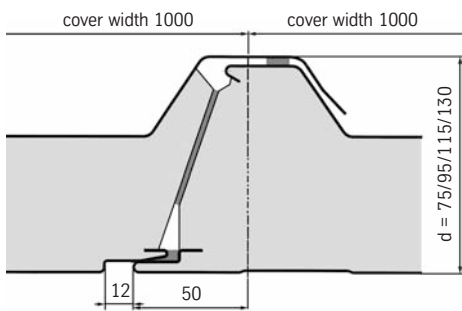
<sup>1)</sup> For availability, please consult us. Aluminium on request



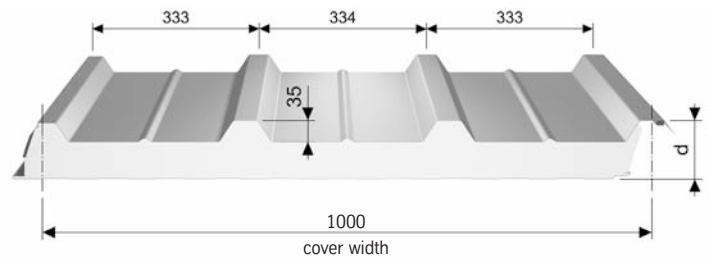


Designation of building element	Element thickness element d	Material thickness <sup>1)</sup>		Max. length supplied	Weight	Thermal resistance R*	Heat transfer coefficient U*	Thermal resistance R <sub>D</sub> **	Heat transfer coefficient U**
		outer sheet t <sub>N</sub>	inner sheet t <sub>N</sub>						
	mm	mm	mm	m	kg/m <sup>2</sup>	m <sup>2</sup> K/W	W/m <sup>2</sup> K	dB	
Hoesch Thermodach	75	0.50	0.40	24	9.9	1.89	0.49	1.85	0.56
	95				10.7	2.78	0.34	2.75	0.38
	115				11.5	3.66	0.26	3.65	0.29
	130				12.1	4.32	0.22	4.30	0.24

<sup>1)</sup> Other material thicknesses for steel cover sheets on request. Officially approved, certificate no. Z-10.4.-345  
 \* calculating acc. to EN ISO 6946 \*\* calculating acc. to EN 13 165 taking account of the joints acc. to EN 14 509

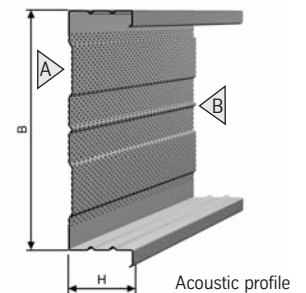
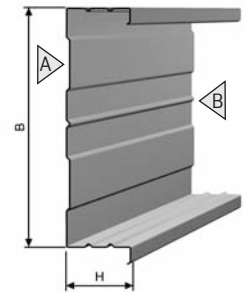


Longitudinal joint design



Hoesch Liner tray

Designation of building elements	Profile height H	Profile width B	Material thickness t <sub>N</sub>	Weight	Max. length supplied
				kg/m <sup>2</sup>	
	mm	mm	mm		m
K 90/600.1	90	600	0.75	8.7	16.0
			0.88	10.2	
			1.00	11.6	
			1.25	14.5	
			1.50	17.4	
K 100/600.1	100	600	0.75	8.9	
			0.88	10.4	
			1.00	11.9	
			1.25	14.8	
K 120/600.1	120	600	0.75	9.4	
			0.88	11.0	
			1.00	12.5	
			1.25	15.7	
K 130/600.1	130	600	0.75	9.6	
			0.88	11.3	
			1.00	12.8	
			1.25	16.0	
K 145/600.1	145	600	0.75	9.8	
			0.88	11.5	
			1.00	13.1	
			1.25	16.3	
K 160/600.1	160	600	0.75	10.2	
			0.88	12.0	
			1.00	13.6	
			1.25	17.0	
			1.50	20.4	



Acoustic profile

Please specify the A- and B-side in the case of different coating. Also available as an acoustic liner tray.

# Hoesch Trapezoidal sheet

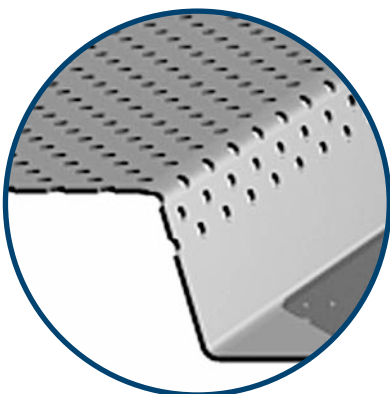
Trapezoidal steel sheets acc. to DIN 18 807			
Profiled panel Please observe the A and B side!	Max. length supplied	Material thickness $t_N$	Weight
	m	mm	kg/m <sup>2</sup>
	18	0.63	6.01
		0.75	7.16
		0.88	8.40
		1.00	9.55
		0.63	6.09
		0.75	7.25
0.88	8.50		
0.63	6.80		
0.75	8.10		
0.88	9.50		
1.00	10.80		
0.63	6.89		
0.75	81.20		
0.88	9.62		
0.75	8,10		
0.88	9,50		
1.00	10,80		
0.63	6.30		
0.75	7.50		
0.88	8.80		
1.00	10.00		
1.25	12.50		
1.50	15.00		

Please specify the A and B side (underside and upside) in the case of different coatings.

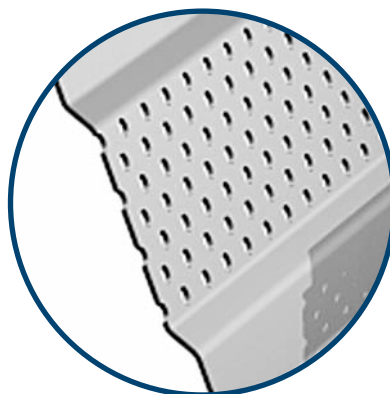
Trapezoidal steel sheets acc. to DIN 18 807			
Profiled panel Please observe the A and B side!	Max. length supplied	Material thickness $t_N$	Weight
	m	mm	kg/m <sup>2</sup>
	24	0.75	8.03
		0.88	9.42
		1.00	10.70
		1.25	13.40
		1.50	16.10
		0.75	9.10
		0.88	10.70
		1.00	12.10
		1.25	15.20
		1.50	18.20
		0.75	10.00
		0.88	11.70
1.00	13.30		
1.25	16.70		
1.50	20.00		
0.75	9.74		
0.88	11.40		
1.00	13.00		
1.25	16.20		
1.50	19.50		
0.75	10.70		
0.88	12.60		
1.00	14.30		
1.25	17.90		
1.50	21.50		
0.75	12.10		
0.88	14.20		
1.00	16.10		
1.25	20.10		
1.50	24.20		

Please specify the A and B side (underside and upside) in the case of different coatings.

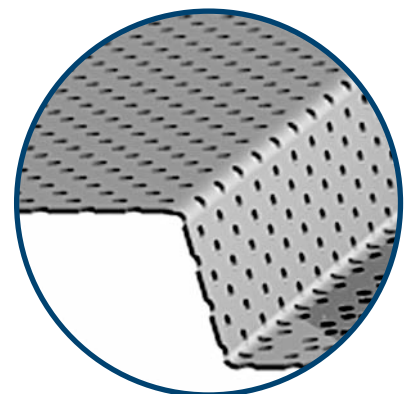
## Acoustic profiles, perforations



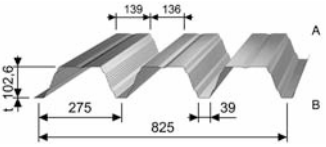
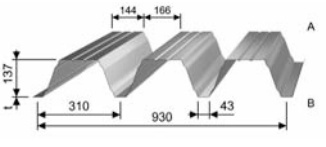
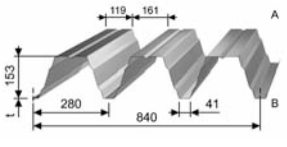
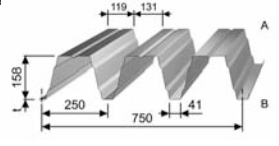
Upper flanges perforated



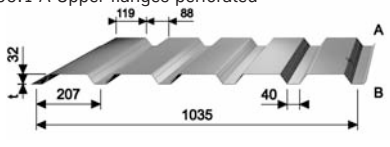
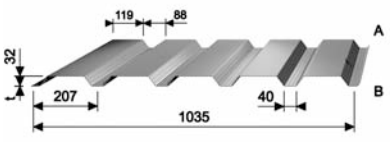
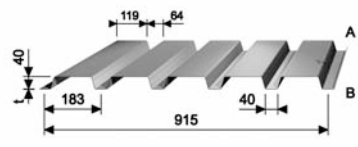
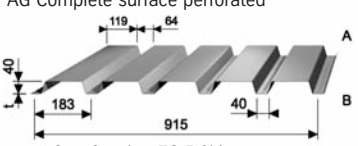
Webs perforated



Complete surface perforated

Acoustic profiles acc. to DIN 18 807			
Profiled panel Please observe the A and B side!	Max. length supplied	Material thickness $t_N$	Weight
	m	mm	kg/m <sup>2</sup>
<b>T 100.1 A Webs perforated</b>  Percentage of perforation 15,9 %*	24	0.75	8.23
		0.88	9.66
		1.00	11.00
<b>T 135.1 A Webs perforated</b>  Percentage of perforation 11,3 %*		0.75	8.89
	0.88	10.43	
	1.00	11.85	
<b>T 150.1 A Webs perforated</b>  Percentage of perforation 12,5 %*	0.75	9.8	
	0.88	11.5	
	1.00	13.0	
	1.25	16.3	
	1.50	19.5	
<b>T 160.1 A Webs</b>  Percentage of perforation 14 %*	0.75	11.00	
	0.88	12.90	
	1.00	14.70	
	1.25	18.40	
	1.50	22.00	

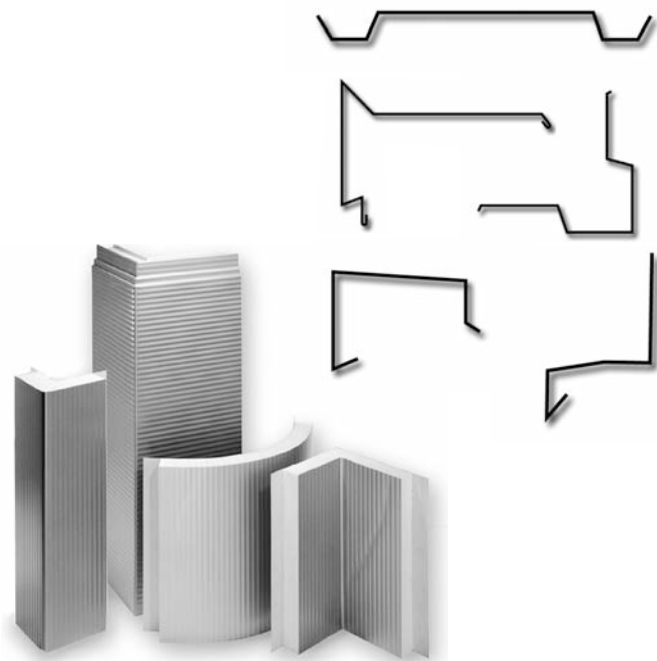
\* referring to the cover width  
Please specify the A and B side (underside and upside) in the case of different coatings

Acoustic profiles for walls			
Profiled panel Please observe the A and B side!	Max. length supplied	Material thickness $t_N$	Weight
	m	mm	kg/m <sup>2</sup>
<b>T 35.1 A Upper flanges perforated</b>  Percentage of perforation 22,3 %*	18	0.75	5.76
<b>T 35.1 AG Complete surface perforated</b>  Percentage of perforation 32,3 %*			5.05
<b>T 40.1 A Upper flanges perforated</b>  Percentage of perforation 25,3 %*			6.51
<b>T 40.1 AG Complete surface perforated</b>  Percentage of perforation 36,5 %*			5.71

\* referring to the cover width  
Please specify the A and B side (underside and upside) in the case of different coatings

## Flashings

For information on formed parts and sandwich panels, please see brochures Info 5.1.1 and Info 5.2.1.



## Also on the Internet: [www.tks-bau.com](http://www.tks-bau.com)





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BAUELEMENTE  
AUS STAHLBLECH  
RAI Gütezeichen



ISO 9001



LOSS PREVENTION CERTIFICATION BOARD

This latest product in our range is another link to applications for which the use of modern sandwich elements is virtually preordained: i.e. in cold stores and deep freeze stores. Based on experience of more than 30 years in these highly sensitive areas in terms of building physics, the ems® brand products nicely round off our portfolio. For you as the architect, engineer or building owner this offers the possibility of carrying out even more comprehensive and holistic projects. Many years' experience as well as a programme of constant innovation guarantee the quality required for building projects in which temperature is of the essence. Hygienic requirements, which are of particular importance in cold stores, are carefully observed and assessed. Being close to the market, ems® are fully aware of all relevant amendments to existing rules and regulations and focus their development accordingly.

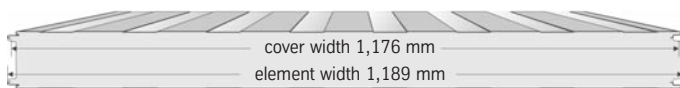
With overall thicknesses between 40 and 220 mm, the ems sandwich elements achieve excellent heat transfer values (U values) and provide reliable insulation down to -40°C and even lower. A broad range of revolving and sliding doors ensures that the arctic temperatures are kept at what they should be - in the cold or deep freeze store.

- ems® Panels for walls and floors of cold stores
- ems® Insulated doors
- ems® Insulated lifting gates
- ems® Coating systems

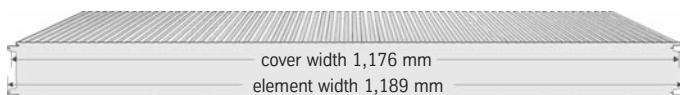
Cold store, PU (PUD) panels	PU40	PU(D)60	PU(D)80	PU(D)100	PU(D)120	PU(D)140	PU(D)150	PU(D)170	PU(D)200	PU220
panel thickness mm	40	60	80	100	120	140	150	170	200	220
heat transfer coefficient (W/m²K)	0.58	0.39	0.30	0.24	0.20	0.17	0.16	0.14	0.12	0.11
dead load (kN/m²)	0.108	0.116	0.124	0.132	0.140	0.148	0.151	0.159	0.171	0.179
basis of design: Material thickness outer sheet 0.6 mm slightly profiled, inner sheet 0.5 mm slightly profiled, WLG 025 as per DIN 4108										

PU = Cold store panel (LL/LE/EE/EL)

PUD = Specially designed cold store panel (VL/VE)



PU Cold store panel (LL/LE/EE/EL)



PUD Specially designed cold store panel (VL/VE)

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