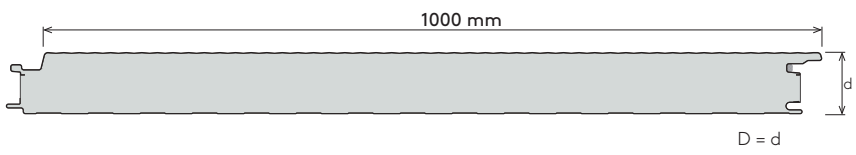
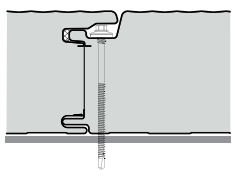
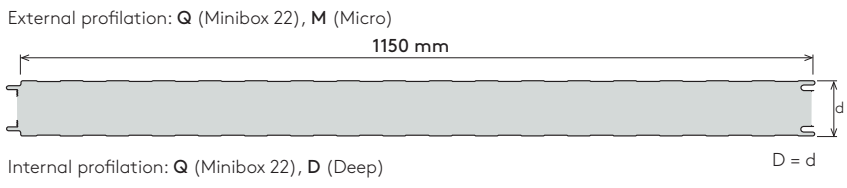
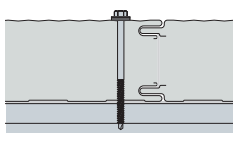
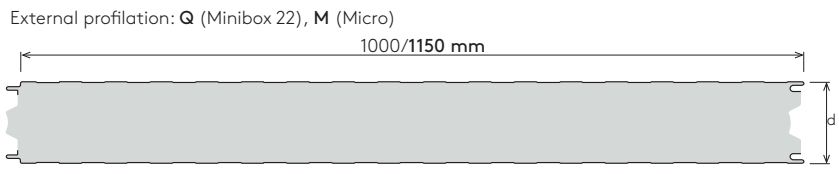
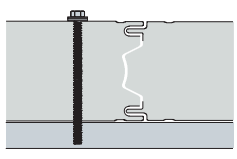
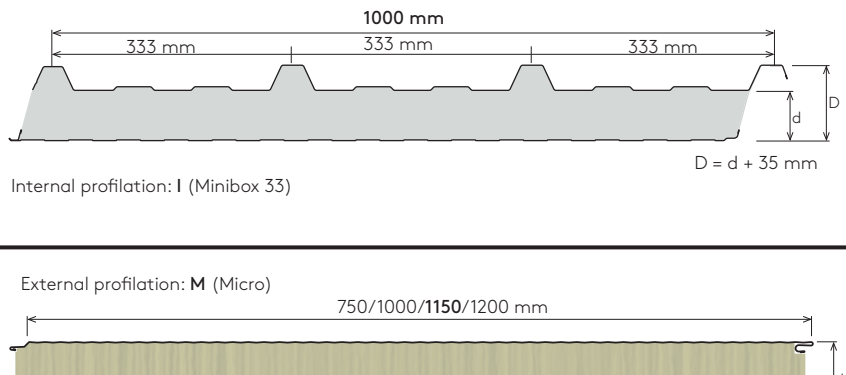
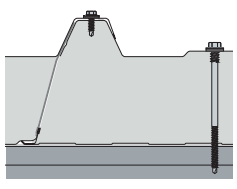
Kingspan
Product Selector

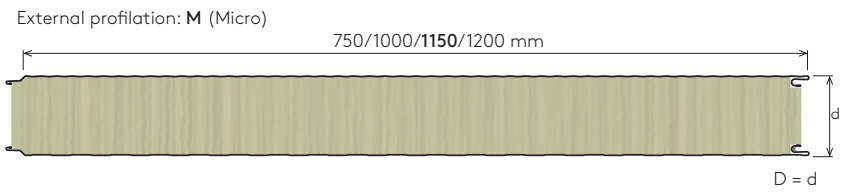
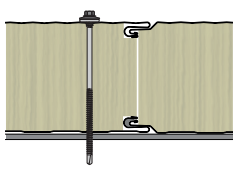
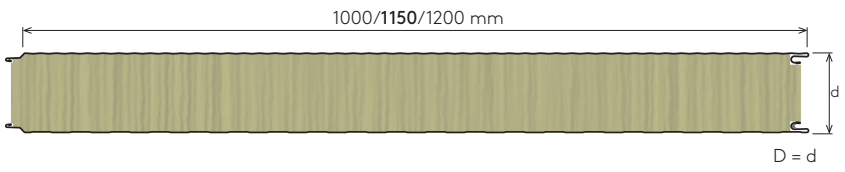
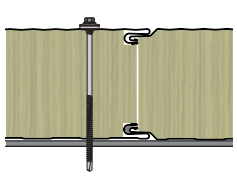
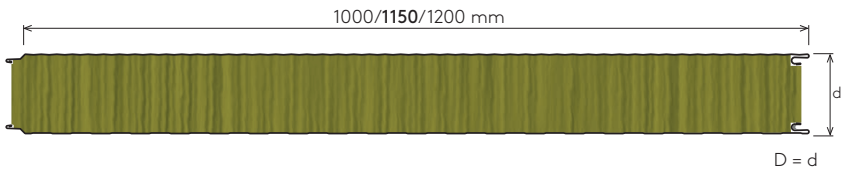
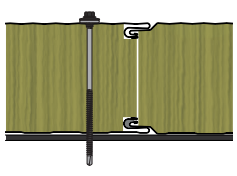
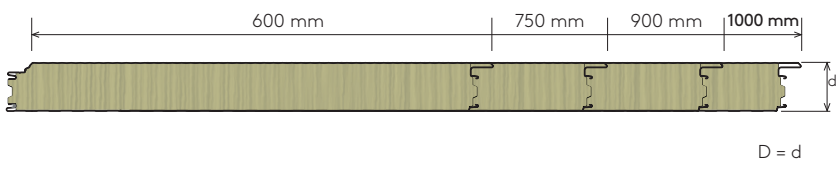
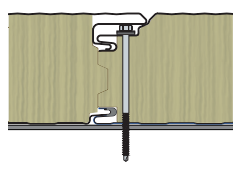
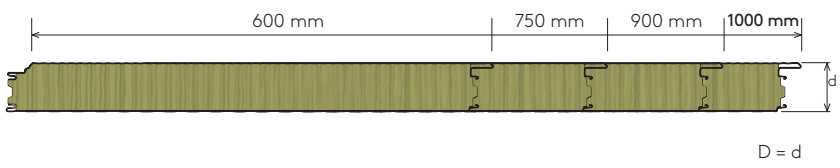
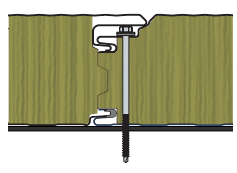
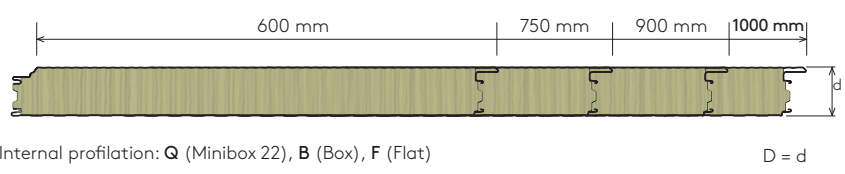
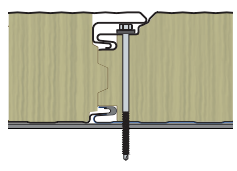
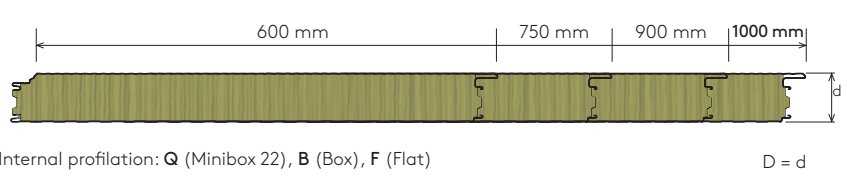
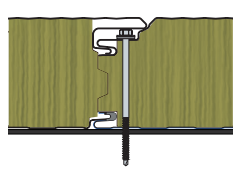
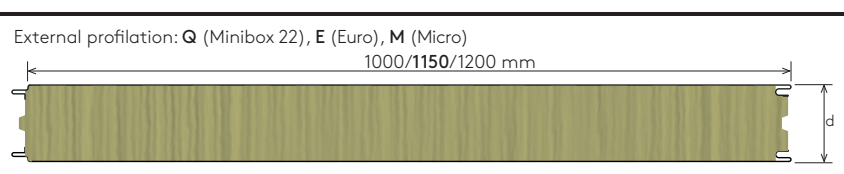
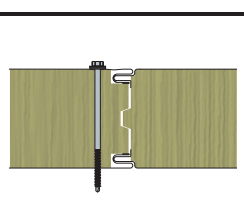
POWERED BY QuadCore® TECHNOLOGY

Kingspan®

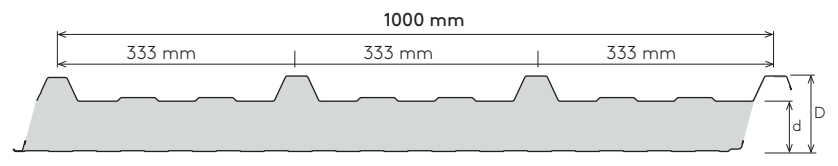
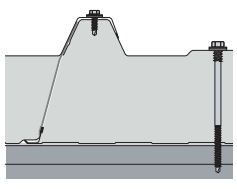
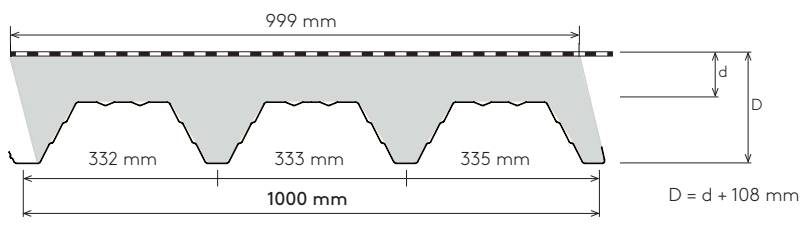
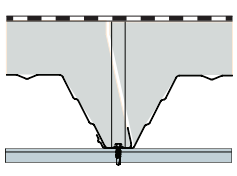
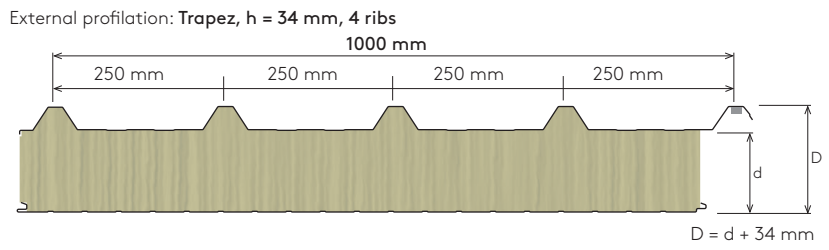
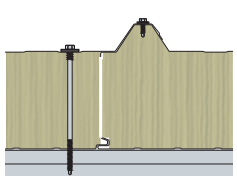
WALL PANELS

QuadCore® / IPN core

		Joint Detail	Core thickness d [mm]	Thermal Transmittance $U_{d,s}$ [W/m²K] QuadCore® (QC1)	Thermal Transmittance $U_{d,s}$ [W/m²K] IPN (IP6)	Reaction to fire / Fire resistance[2,4] QuadCore® (QC1)	Reaction to fire / Fire resistance[2,4] IPN (IP6)
KS AT **1000** Concealed fix QuadCore® TECHNOLOGY [1] FM APPROVED AIR	External profilation: **M** (Micro), **E** (Euro), **W** (Wave)  Internal profilation: **Q** (Minibox 22), **D** (Deep)	Air tightness for ***AIR*** panels V_{A50} **≤ 0,1** [m³/m²h] 	60	0,37	0,43	B-s1, d0	B-s1, d0
			80	0,25	0,28		
			100	0,20	0,22	B-s1, d0 H: EI 20, V: EI 20	B-s1, d0 H: EI 20, V: EI 20
			120	0,16	0,19		
			150	0,13	0,15	B-s1, d0 H: EI 30, V: EI 30	B-s1, d0 H: EI 30, V: EI 30
			170	0,11	0,13		
KS TF[9] 1000/**1150** Through fix QuadCore® TECHNOLOGY [1] FM APPROVED	External profilation: **Q** (Minibox 22), **M** (Micro)  Internal profilation: **Q** (Minibox 22), **D** (Deep)		60	0,33	0,37	B-s1, d0	B-s1, d0
			80	0,24	0,27		
KS TL[9] 1000/**1150** Through fix QuadCore® TECHNOLOGY [1] FM APPROVED AIR	External profilation: **Q** (Minibox 22), **M** (Micro)  Internal profilation: **Q** (Minibox 22), **D** (Deep) **Coldstore buildings walls/ceilings**	Air tightness for ***AIR*** panels V_{A50} **≤ 0,1** [m³/m²h] 	100	0,19	0,22	B-s1, d0 H: EI 20 V: EI 15	B-s1, d0 H: EI 20, V: EI 20
			120	0,16	0,18		B-s1, d0 H: EI 20, V: EI 30
			150	0,13	0,15	B-s1, d0 H: EI 30 V: EI 15	B-s1, d0 H: EI 30 V: EI 30
			170	0,11	0,13		
			200	0,10	0,11	B-s1, d0 H: EI 45, V: EI 15	
KS RW[5] **1000** Through fix QuadCore® TECHNOLOGY [1] FM APPROVED	External profilation: **Trapez, h=35 mm, 3 ribs**  Internal profilation: **I** (Minibox 33)		60	0,32	0,35	B-s2, d0	
			80	0,24	0,26	B-s1, d0	B-s1, d0
			100	0,18	0,21		
			120	0,15	0,18		
			140	0,14	0,15		
			160	0,12	0,13		
			200	0,09	0,11		

		Joint Detail	Core thickness d [mm]	Thermal Transmittance $U_{d,s}$ [W/m²K]	Reaction to fire / Fire resistance[2,4]
KS RF K-Roc® T[3] 750/1000/**1150**/1200 Through fix	External profilation: **M** (Micro)  Internal profilation: **Q** (Minibox 22)		185	0,20	A2-s1, d0, H: EI 180, V: EI 90
			200	0,19	
			220	0,17	
			240	0,16	
KS RF K-Roc® C[3] 1000/1100/**1150**/1200 Through fix FM APPROVED [1] AIR	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)	Air tightness for ***AIR*** panels V_{A50} **≤ 0,2** [m³/m²h] 	80	0,47	A2-s1, d0, H: -, V: EI 60
			100	0,38	A2-s1, d0 H: EI 90, V: EI 90
			120	0,32	
			150	0,26	A2-s1, d0 H: EI 180, V: EI 90
			175	0,22	
			200	0,20	A2-s1, d0, H: EI 240, V: EI 180
			220	0,18	
			240	0,16	
KS RF K-Roc® F[3] 1000/1100/**1150**/1200 Through fix FM APPROVED [1] AIR	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)	Air tightness for ***AIR*** panels V_{A50} **≤ 0,2** [m³/m²h] 	80	0,53	A2-s1, d0 H: EI 30, V: EI 30
			100	0,43	A2-s1, d0, H: EI 90, V: EI 120
			120	0,36	
			150	0,29	A2-s1, d0 H: EI 180, V: EI 120
			175	0,25	
			200	0,22	A2-s1, d0 H: EI 240 V: EI 180
			220	0,20	
			240	0,18	
KS RH K-Roc® C[7] 600/750/900/**1000** Concealed fix AIR	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)	Air tightness for ***AIR*** panels V_{A50} **≤ 0,2** [m³/m²h] 	80	0,50[8]	A2-s1, d0
			100	0,40[8]	A2-s1, d0 H: EI 30 V: EI 30
			120	0,33[8]	
			150	0,27[8]	
			175	0,23[8]	A2-s1, d0 H: EI 240 V: EI 240
			200	0,20[8]	
			220	0,18[8]	
			240	0,17[8]	
KS RH K-Roc® F[7] 600/750/900/**1000** Concealed fix AIR	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)	Air tightness for ***AIR*** panels V_{A50} **≤ 0,2** [m³/m²h] 	80	0,57[8]	A2-s1, d0
			100	0,45[8]	A2-s1, d0, H: EI 45, V: EI 30
			120	0,37[8]	A2-s1, d0, H: EI 45, V: EI 45
			150	0,30[8]	
			175	0,26[8]	A2-s1, d0 H: EI 180 V: EI 90
			200	0,22[8]	
			220	0,20[8]	
			240	0,19[8]	
KS RH K-Roc® M[7] 600/750/900/**1000** Concealed fix FM APPROVED [1]	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)		80	0,52[8]	A2-s1, d0
			100	0,41[8]	
			120	0,34[8]	A2-s1, d0 H: EI 90 V: -
			150	0,27[8]	
			175	0,23[8]	
			200	0,20[8]	
KS RH K-Roc® Y[7] 600/750/900/**1000** Concealed fix FM APPROVED [1]	External profilation: **M** (Micro), **E** (Euro), **Q** (Minibox 22), **F** (Flat)  Internal profilation: **Q** (Minibox 22), **B** (Box), **F** (Flat)		80	0,59[8]	A2-s1, d0
			100	0,47[8]	A2-s1, d0, H: -, V: EI 45
			120	0,39[8]	A2-s1, d0, H: EI 60 V: EI 120
			150	0,31[8]	
			175	0,27[8]	
			200	0,23[8]	
KS AF K-Roc®[3] 1000/**1150**/1200 Through fix Acoustic panel	External profilation: **Q** (Minibox 22), **E** (Euro), **M** (Micro)  Internal profilation: **X** (Flat - perforated)		80	0,53	A2-s1, d0
			100	0,43	
			120	0,36	
			150	0,29	

WALL PANELS

		Joint Detail	Core thickness d [mm]	Thermal Transmittance $U_{d,s}$ [W/m²K] QuadCore® (QC1)	Thermal Transmittance $U_{d,s}$ [W/m²K] IPN (IP6)	Reaction to fire / Fire resistance[2,4] QuadCore® (QC1)	Reaction to fire / Fire resistance[2,4] IPN (IP6)
QuadCore® / IPN core	**KS RW**[5] **1000** Classic roof QuadCore® TECHNOLOGY [1] FM APPROVED	External profilation: **Trapez, h=35 mm, 3 ribs**  Internal profilation: **I** (Minibox 33)	 Minimum roof slope 4° (7 %)[6], 6° (10 %)	40	-	0,52	B-s2, d0 $B_{ROOF}(t_1),(t_2),(t_3)$	B-s1, d0, $B_{ROOF}(t_1),(t_2),(t_3)$
			60	0,32	0,35		B-s1, d0 $B_{ROOF}(t_1),(t_2),(t_3)$ REI 15, RE 30
			80	0,24	0,26	B-s1, d0, $B_{ROOF}(t_1),(t_2),(t_3)$	
			100	0,18	0,21	B-s1, d0 $B_{ROOF}(t_1),(t_2),(t_3)$ REI 20, RE 30	B-s1, d0 $B_{ROOF}(t_1),(t_2),(t_3)$ REI 20, RE 60
			120	0,15	0,18		
			140	0,14	0,15		
			160	0,12	0,13		
	KS X-dek™ **1000** Flat roof QuadCore® TECHNOLOGY [1] FM APPROVED	External profilation: **steel (XD),** **fibreglass (XG/TR27),** **membrane PVC (XM)**  Internal profilation: **Trapez h = 108 mm - 3 ribs**	 Minimum roof slope 0,5° (1 %)[6]	100	XD **0,18** XG/XM **0,20**	XD 0,20 XG/XM 0,22	B-s2,d0 $B_{ROOF}(t_1, t_3)$ REI 15 (XD) REI 20 (XG, XM)	B-s2,d0 $B_{ROOF}(t_1, t_3)$ REI 20 (XM, XG, XD)
			140	XD **0,13** XG/XM **0,14**	XD/XG/XM 0,15	B-s2,d0 $B_{ROOF}(t_1, t_3)$ REI 20 (XD, XM) REI 30 (XG)	B-s2,d0 $B_{ROOF}(t_1, t_3)$ REI 20 (XM) REI 30 (XD,XG)
K-Roc® mineral fiber core	**KS FF K-Roc®**[5] **1000** Classic roof	External profilation: **Trapez, h = 34 mm, 4 ribs**  Internal profilation: **Q** (Minibox 22), **B** (Box)	 Minimum roof slope 5° (8,5 %)[6], 8° (14 %)	100	0,42		A2-s1, d0, $B_{ROOF}(t_1),(t_2),(t_3)$, REI 90 / RE 120
			120	0,35			A2-s1, d0 $B_{ROOF}(t_1),(t_2),(t_3)$ REI 120 / RE 120
			150	0,28			
			175	0,24			
			200	0,21			

NOTES

1) **FM certificate available for selected panels with QuadCore® (AT, RW, TL, TF, XM, XD) and K-Roc® (RH M, RH Y, RF C, RF F) core. Detailed information is provided by Regional Sales Representatives.**
2) Fire classification markings: R - fire resistance, E - fire integrity, I - fire insulation, H - horizontal layout, V - vertical layout.
3) RF, AF panels are also available in widths of 1000 and 1200 mm.
4) Detailed technical data available on the website **www.kingspan.pl** and in the Kingspan Technical Department (tech@kingspan.pl)
5) Panels KS1000 RW and KS1000 FF can be used also on walls.
6) Kingspan recommends increase min. roof slope in case of joining two or more panels in roof inclination.
7) KS1000 RH panels are also available in widths of 600, 750, 900 mm.
8) $U_{d,s}$ values for the module = 1000 mm
9) TF (80 mm thickness) and TL (all thickness) panels also available in 1000 mm width
10) For detailed information on this parameter, please contact Kingspan Technical Department.

Kingspan standard colors and profiling available for sandwich panels

Standard colors - for external cladding

Poliester (PES) - 25 µm

R9010

R9002

R7035


R9006

R9007

R7016

Kingspan Effect

Grained Oak
(Wood 5)

Desert Oak
(Wood 6)

Mid Oak
(Wood 7)

Walnut
(Wood 8)

The colors are for reference only and may differ from the actual ones.

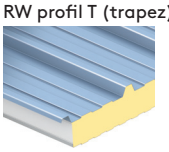
Standard colors - for internal cladding

R9002

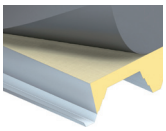
R9010

Profiling options - roof elements

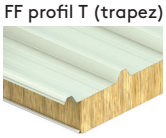
RW profil T (trapez)



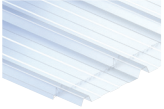
X-dek™



FF profil T (trapez)



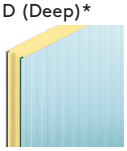
Roof Daylight Panels
KS HTL



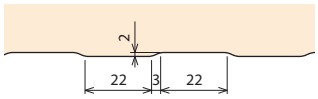
Wall Daylight Panels
KS WL

Profiling options - wall panels

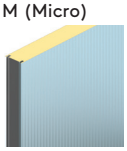
D (Deep)*



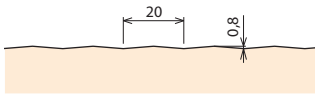
AT, TL, TF, X-dek™ XD



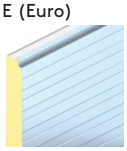
M (Micro)



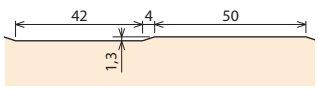
AT, TF, TL, RF[1], RH[1], AF



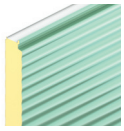
E (Euro)



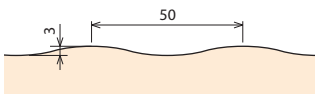
AT, AF, RF[1], RH[1]



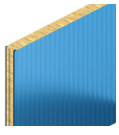
W (Wave)



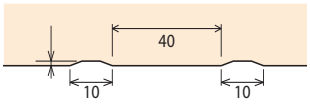
AT



B (Box)

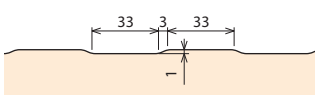


FF, RF, RH,

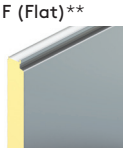


I (Minibox 33)

RW*



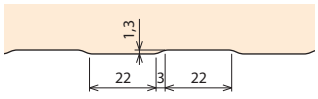
F (Flat)**



RF[1], RH[1], AF, TL, TF

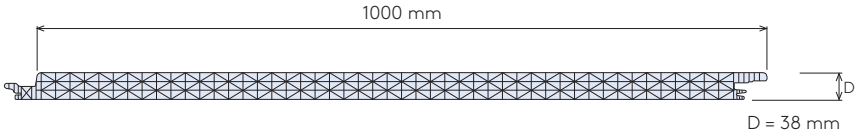
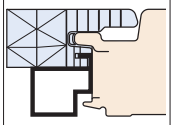
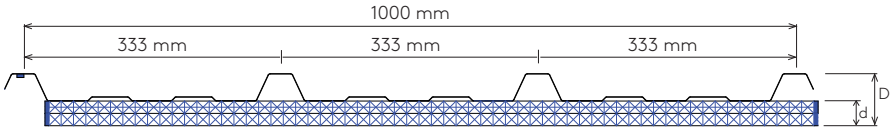
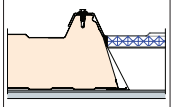
Q (Minibox 22)

AT, TL, TF, RF[1], RH[1]



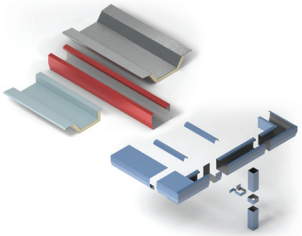
* Only as internal profilation
** F (Flat) profiling as a non-standard option for panels other than KS1150 RF and KS1000 RH
[1)] The profiling depth for RH and RF plates is 0.7 mm
For more details, please contact Kingspan - info@kingspan.pl

WALL & ROOF DAYLIGHT PANELS

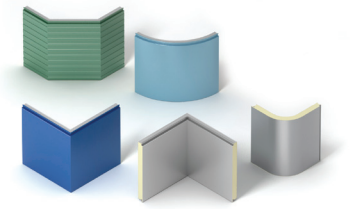
		Joint Detail	Core thickness d [mm]	Thermal Transmittance $U_{d,s}$ [W/m²K]	Reakction to fire Fire resistance[2]	Weight [kg/m²]
KS WL **1000** **WallLight** Polycarbonate	**Wall daylight KS1000 WL is dedicated for installation with KS1000 AT** 	 * Aluminum distance, to fit to panel thickness Vertical or horizontal	38	1,25	B-s2, d0	4,70
KS HTL **1000** HybridThermalight Fiberglass + polycarbonate	Exterior profilation: Trapez 35 mm - 3 ribs **The KS1000 HTL panel is dedicated for use with KS1000 RW or KS1000 FF panels[4]** 	 Minimum roof slope 6° (10,5 %)	32	1,2	$B_{ROOF}(t_1)$	5,0

Accessories

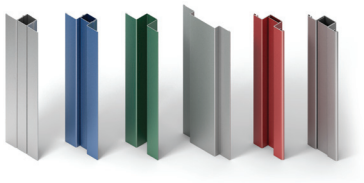
Louvers



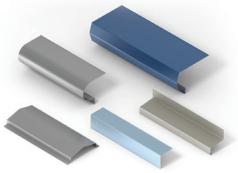
Highline Gutters and Insulated Gutters



Corner Panels



Top Hats



General Flashings

Doors & Chambers

16 °C
0 °C
-35 °C

Cold storage doors
(hinged, single leaf) - DCH1
Freezer doors
(hinged, single leaf) - DFH1

16 °C
0 °C
-35 °C

Cold storage doors (hinged, double leaf) - DCH2
Freezer doors (hinged, double leaf) - DFH2

0 °C
-35 °C

Cold storage doors(sliding, single leaf) - DCS1
Freezer doors (sliding, single leaf) - DFS1

0 °C
-35 °C

Cold storage flush doors
(hinged, single leaf) - DFCH1
Freezer flush doors
(hinged, single leaf) - DFFH1

0 °C
-35 °C

Cold storage and freezer chambers
(camlock) - DCC

16 °C
0 °C

Swing doors
(hinged, single leaf) - DSH1
Swing doors
(hinged, double leaf) - DSH2

35 °C
0 °C
-20 °C

Service doors
(hinged, single leaf) - DOH1

Information is accurate at publication. Kingspan Insulated Panels may update specifications without notice.
For the latest information, please visit: **www.kingspan.pl**.

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