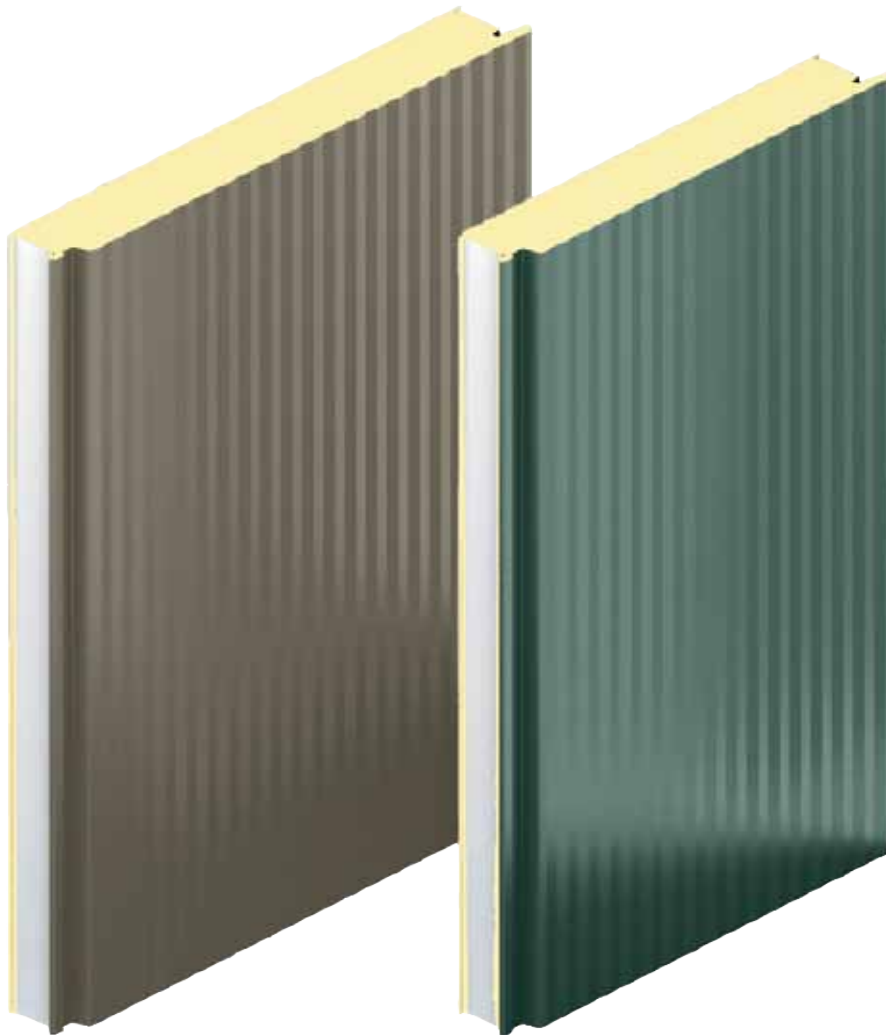


Kingspan

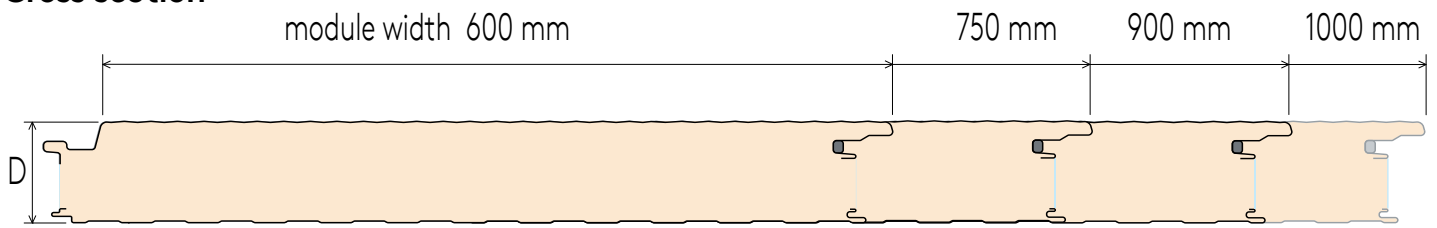
KS AWPflex

Product Data Sheet

Architectural façade element with Kingspan's high-performance insulation core IPN



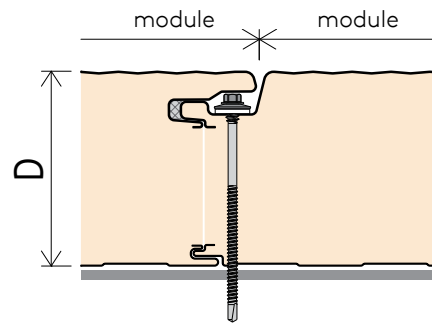
Cross section



Application

KS AWPflex is an architectural façade element with Kingspan’s high-performance insulation core IPN. On account of its flexible widths of 600, 750 & 900 mm, the element offers a multiplicity of options to make the façade both inimitable and aesthetically sophisticated. The combination of different widths allows for a distinctive joint pattern. Windows, doors & gates can be optimally integrated. The application of panel should be verified for each project individually, in order to meet the design requirements.

Joint detail



Technical details

Product	Module [mm]	Insulation core thickness D [mm]	Weight [kg/m ²]	Panel lengths [m]		Number of panels in bundle [pcs]	Heat transfer coefficient U _{d,s} [W/(m ² K)] for λ = 0,023 [W/mK] at temp. 10°C	Sound reduction index R _w [dB]	Fire parameters					
				Min. ⁽¹⁾	Max.				Reaction to fire	Fire resistance ⁽²⁾				
										H horizontal	V vertical			
KS AWPflex ⁽³⁾	600	60	11,81	2,0	16,0	12	0,45	-	B-s2, d0	-	-			
		80	12,61		13,0	9	0,32			EI 15 4,0 m (o<-i)	3,0 m (o<-i)			
		100	13,41			7	0,25							
		120	14,21			6	0,20							
		150	15,41			5	0,16							
	750	60	11,49		16,0	15	0,44		-	B-s2, d0	-	-		
		80	12,29		13,0	12	0,31				EI 15 4,0 m (o<-i)	3,0 m (o<-i)		
		100	13,09			9	0,24							
		120	13,89			8	0,20							
		150	15,09			6	0,16							
	900	60	11,28	2,0	16,0	19	0,42	-	B-s2, d0	-	-			
		80	12,08			13,0	14			0,30	EI 15 4,0 m (o<-i)	3,0 m (o<-i)		
		100	12,88				11			0,24				
		120	13,68				9			0,20				
		150	14,88				7			0,16				
	1000	50	10,77		2,0	16,0	23		0,45	25	B-s1, d0	-	-	
		60	11,17				13,0		19			0,38	EI 15 4,0 m (o<-i)	3,0 m (o<-i)
		80	11,97						14			0,29		
		100	12,77						11			0,23		
		120	13,57						9			0,19		
150		14,77	7	0,15										

Note:

- 1) At the request of the ordering party (for an additional fee) it is possible to deliver shorter panels. In other cases, short sections are combined in length meeting the production requirements.
- 2) Fire resistance parameters are valid for the product specification based on specific fire resistance classification of relevant product.
- 3) Panels produced at the Kingspan factory in Hungary.

Technical data

Profilations	Geometry - dimensions in [mm]	Exterior	Interior
Q (minibox)			■
M (micro)		■	
W (wave)		■	
N (minimicro)		■	

- standard
- on request

Material

- **Exterior/Interior facings:**
 - Hot-dip zinc coated steel with a total of 275 g/m² of zinc, according to EN 14 509;
 - austenitic stainless steel type 1.4301 according to EN 10 088;
- **Insulation core**
 - a standard insulation core of a FireSafe IPN closed-cell foam;

Exterior coating options

- **Poliester SP25 - (Kingspan PES)** - corrosivity category up to C3; ■
- **PVD(F) 2 layers - (Kingspan PVD(F) 2 layers)** - corrosivity category up to C3¹⁾; ●
- **PVD(F) 3 layers - (Kingspan PVD(F) 3 layers)** - corrosivity category up to C3¹⁾; ●
- **PUR55 - (Kingspan Spectrum)** - corrosivity category up to C4²⁾; ■

Interior coating options

- **Poliester SP15 - (Kingspan PEI)** - corrosivity category up to C1; ■
- **Poliester SP25 - (Kingspan PES)** - corrosivity category up to C3; ●
- **PVD(F) 2 layers - (Kingspan PVD(F) 2 layers)** - corrosivity category up to C3¹⁾; ●
- **PVD(F) 3 layers - (Kingspan PVD(F) 3 layers)** - corrosivity category up to C3¹⁾; ●
- **FoodSafe PVC(F) (Kingspan FoodSafe)** - corrosivity category up to C5-l; ●
- **PUR55 - (Kingspan Spectrum)** - corrosivity category up to C4¹⁾; ●
- **INOX** - corrosivity category up to C5²⁾; ●

1) Corrosion resistance category up to C4 on special order; to be confirmed by Kingspan's Quality Control Department.
 2) Corrosion resistance category up to C5-l, M on special order; to be confirmed by Kingspan's Quality Control Department.

Reference documents

KS AWPflex sandwich panels are manufactured in accordance with the EN 14 509 and CE marked.

Quality

Kingspan insulating sandwich panels are made from the highest quality materials, using the latest manufacturing technology, meet the stringent quality control requirements, meet ISO 9001:2015 standards and guarantee long service life and reliability.

Guarantees & Warranties

The Kingspan guarantees are individually assessed for each project, especially depending on the aggressiveness of the environment and the type of surface treatment chosen.

KINGSPAN STANDARD COLORS - EXTERIOR SIDE

Exterior coat types (dla blachy ocynkowanej)	Polyester (PES) – 25µm	R9010	R9002	R7035	R9006	
		R9007	R1015	R3000	R7016	
	Spectrum (PUR) – 50µm	R9010	R9002	R9006	R9007	
		R3009	R7016	The colors are only illustrative in nature and may differ from the actual ones.		
	Standard interior colors for KS AWPflex are R9010 PES or R9002 PEI (dedicated for the inside of the panel)					
	Kingspan Premium Metallic	Silver	Grey Aluminium	Grey Rock	Dark Sky	
		Arcadia	Turmalin	Sechura	The colors are only illustrative in nature and may differ from the actual ones.	

Other colors from other palettes are also available on request, after prior consultation with Kingspan.

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Information about the product offer in others countries can be obtained from your local sales representative or on the website **www.kingspan.com**

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