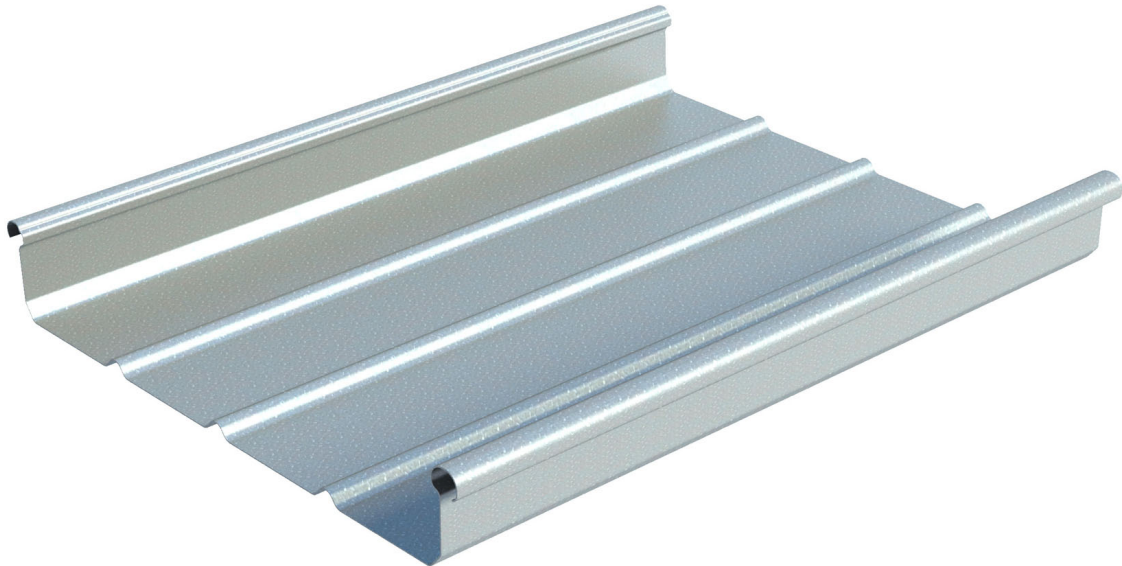


Arkzip 65.400.9.Aluminium: 09-a-Ark-Prod-03/2015

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Profile depth	65mm		Profile width	400mm				
Weight: kg/m ²	0.9mm AL = 3.62kg/m ²		Non Fragility to ACR[M]001:2014	Class B				
Material	0.9mm stucco aluminium BSEN485: AW3005H24 +0.05-0.02mm 0.9mm aluminium BSEN485: AW3105 H44 +0.05-0.02mm: ARS and PVdF finishes on enquiry							
Durability	Paint finish	Life expectancy years		Agreement references				
		inland	coastal					
	Plain stucco	40	40					
	ARS	40	40	1964ps3, 2922ps3				
	PVdF	40	40	1964ps2, 2922ps2				
A paint finish may retain a good appearance for a shorter period in severe or coastal locations than those indicated in the table, refer to the Agreement certification for detail.								
CE references	Ark.DoP.001, 002, 003: BS EN 14782							
Section properties	Thickness	Weight	Rib in compression		Pan in compression		Reaction	Detachment
	t _N mm	kg/m ²	M _{c,Rk,F} (kNm/m)	I _{eff} (cm ⁴ /m)	M _{c,Rk,F} (kNm/m)	I _{eff} (cm ⁴ /m)	R _{w,Rk,B} (kN/m)	(kN/m)
	0.9 AL	3.62	1.376	44.617	1.165	19.248	11.837	6.872

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Structural: positive/gravity loads: variable loads factor 1.5, deflection L/200. Multi spans	Span	1.0 m	1.1 m	1.2 m	1.3 m	1.4 m	1.5 m	1.6 m	1.7 m	1.8 m	1.9 m	2.0 m	
	Load: kN/m ²	4.66	4.04	3.54	3.13	2.79	2.51	2.26	2.05	1.87	1.71	1.57	
Structural: negative/uplift loads: variable loads factor 1.5, attachment load factor 2.0, deflection L/150. Multi spans.	Span	1.0 m	1.1 m	1.2 m	1.3 m	1.4 m	1.5 m	1.6 m	1.7 m	1.8 m	1.9 m	2.0 m	
	Load: kN/m ²	3.12	2.84	2.60	2.40	2.23	2.08	1.95	1.84	1.74	1.64	1.56	
Fire properties	Reaction to fire: EN14782:06:5.1.2: Class A1 External fire performance: EN14782:06:5.1.2: Class Broof (t1), Class Broof (t2) Class Broof (t3) and Class Broof (t4)												
Curve options	Natural curve to 40m minimum radius. Crimp curve to 1m minimum radius												
Gauging	Straight sheets: 400mm, factory curved sheets: 400mm, site curved sheets: 405mm												
Fastener types	Primary: 140mm halter with 2No A2 stainless steel 5.5mm \varnothing fasteners. End distances 100mm-300mm (sheet end to halter centre line).												
Fastener frequency	Halters at every rib, every spacer/purlin. Side laps, mechanically seamed, no sealant Fixed point at one position within sheet length.												
Installation key requirements	Refer to Arkzip installation guidelines- datasheet 31 and 32 Halter brackets have 2No 304 grade stainless steel fasteners plus an isolating EPDM seal. Isolate aluminium from galvanised steel Arkzip requires a single fixed point per sheet, normally at the ridge or crown of a curved roof. Zip sheets as laid. Increase halter gauge by 5mm for natural curve sheets (Note impact on module if rooflights to be installed) Set zipping tool to 20mm rib top diameter Use stainless steel tooling for stucco, nylon for painted finishes. Close ribs by hand pliers at each sheet end before zipping. Protect pre-painted sheet finishes with a rib cloth Walk on Arkzip ribs Use Arkzip ridge/ eaves and verge detailing and components. Allow 1.2xLmm, min 20mm gap at eaves stiffener angle. Turn sheets down at eaves at pitches < 10°												
Reference/ Standards	Structural performance – Oxford Brookes University assessment 2015.						BS EN 508-2:2000 BS EN 14782 BS EN 485 BS 5427:96						