ARK Profiles Ltd: Product Data Sheet



ARKzip 65.400.7.Steel: 55-a-ARK-Prod-06_2016 1 of 2 Profile depth 65mm Profile width 400mm 7.8kg/m² Non Fragility to Weight: kg/m2 Class B ACR[M]001:2014 0.7mm steel in Tata Colorcoat HPS200 Ultra® / Tata Colorcoat® LG. Colours as Tata standard range. Material Durability Paint finish Life expectancy years (roofing) Agrement references inland coastal Tata Colorcoat HPS200 Ultra® 30 - 40 25 - 30 (1km) 2717PS8i1a 15 - 25 Tata Colorcoat® LG 10 - 20 (2km) 2717ps3i1a Refer to http://www.colorcoat-- - online.com for more detail. **CE** references ARK.DoP.005, 006: BS EN 14782 Section properties **Thickness** Weight Rib in compression Pan in compression Reaction Detachment (kN/m) kg/m² $t_N \ mm$ $M_{c,Rk,F}$ $M_{c,Rk,F}$ $R_{w,Rk,B}$ I_{eff} (cm⁴/m)(cm⁴/m)(kNm/m) (kNm/m) (kN/m) 0.7 7.8 1.89 22.99 1.47 20.06 10.71 3.26



ARK Profiles Ltd: Product Data Sheet



ARKzip 65.400.7	_	1						1		1
Structural: positive/gravity loads: variable loads factor 1.5, deflection L/200. Multi spans	Span	1.0m	1.1m	1.2m	1.3m	1.4m	1.5m	1.6m	1.7m	1.8m
	Load: kN/m²	4.88	4.27	3.77	3.35	3.01	2.71	2.46	2.24	2.06
Structural: negative/uplift loads: variable loads factor 1.5, deflection L/90.	Span	1.0m	1.1m	1.2m	1.3m	1.4m	1.5m	1.6m	1.7m	1.8m
Multi spans.	Load: kN/m ²	2.05	1.87	1.72	1.59	1.49	1.39	1.31	1.24	1.17
Fire properties	Reaction to fire: HPS200 Ultra: EN14782:06:5.1.2:C-S2,d0, LG: C-S3,d0 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 60m 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 AZ65/400 module Vs liner if rooflights to be installed Set zipping tool to 20mm rib top diameter Close ribs by hand pliers at each sheet end before zipping. Protect paint 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 1993.1.3.2006 BS EN 485 BS 5427:96									

