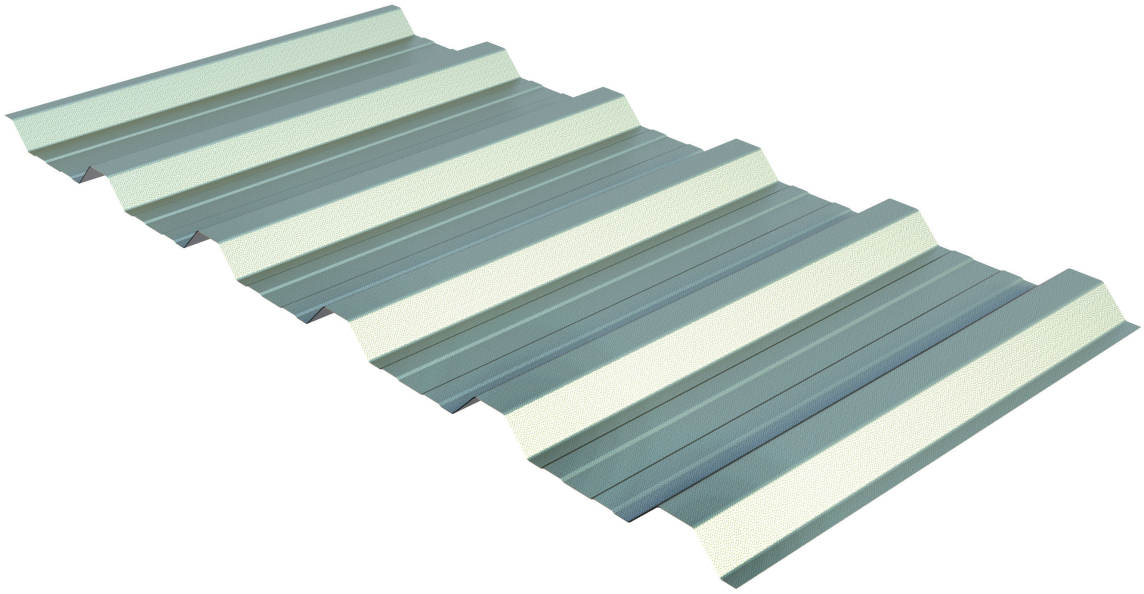
Ark Profiles Ltd: Product Data Sheet

Arkroof 32.1000.200-0.7mm: 01-a-Ark-Prod-03/2015



Profile depth	32mm	Profile width	1000mm	Profile pitch	200mm
Nominal profile weight	0.7mm = 6.8kg/m^2		Non Fragility to ACR[M]001		Class B

Section Properties		Broad flange in compression		Narrow flange in compression	
	t_N mm	M_b (kNm/m)	I_b (cm^4/m)	M_n (kNm/m)	I_n (cm^4/m)
	0.7	1.116	9.379	1.035	9.267

Structural	The loads shown are permissible and include profile and fastener limits. Fastener strength used in negative (wind uplift) is 2.75kN with an attachment strength load factor of 2 (BS5427), assuming fasteners in either alternate troughs or every trough.

Structural: positive loads kN/m^2: variable loads factor 1.5, deflection L/200 Double/multi-spans	Span	1.0m	1.1m	1.2m	1.3m	1.4m	1.5m	1.6m	1.7m	1.8m
	Load: kN/m^2	3.36	2.92	2.57	2.28	2.03	1.83	1.65	1.50	1.37
Structural: negative loads kN/m^2: variable loads factor 1.5, deflection L/150. Double/multi-spans Fasteners in alternate troughs (400mm centres)	Span	1.0m	1.1m	1.2m	1.3m	1.4m	1.5m	1.6m	1.7m	1.8m
	Load: kN/m^2	2.75	2.50	2.29	2.12	1.96	1.83	1.72	1.62	1.53
Structural: negative loads kN/m^2: variable loads factor 1.5, deflection L/150. Double/multi-spans Fasteners in alternate troughs (200mm centres)	Span	1.0m	1.1m	1.2m	1.3m	1.4m	1.5m	1.6m	1.7m	1.8m
	Load: kN/m^2	5.50	4.56	3.83	3.27	2.82	2.45	2.16	1.91	1.70

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Arkroof 32.1000.200-0.7mm: 01-a-Ark-Prod-03/2015

Material	0.7mm steel in Tata Colorcoat HPS200 Ultra®/ Tata Colorcoat® LG/ Tata Colorcoat Prisma®. Colours as Tata standard range.	
Durability	Tata Colorcoat HPS200Ultra® (Confidex) 25-40 years: Tata Colorcoat Prisma® (Confidex) 20-30 years: Tata Colorcoat® LG 10-25 years. Refer to http://www.colorcoat-online.com for more detail.	
CE reference	Ark.DoP.008, 009, 010: BS EN 14782	
Fire properties	External fire performance- European: EN14782:06:5.1.2: Class Broof (t1), Class Broof (t2) and Class Broof (t3). National: notional designation of AA and has a Class 0 or 'low risk' surface as defined in the various national Building Regulations.	
Curve options	Natural curve to 40m minimum radius. Crimp curve to 1m minimum radius	
Sheet delivery options, site care	Minimum length 1.000m Maximum length 12.000m Pack weight max 1.5t Inspect packs and record any damage/shortages on delivery paperwork, backed by photos to be sent to Ark with a report. Store at ground level in a protected area, on bearers, at a slope to drain, under tarpaulin if to be stored for longer than a week. Lift with care: <6m- by site forklift with tines set apart, 1 pack at a time, >6m by crane using slings (not chains). Load to rafter backs. Cut using a nibbler, protect site cut edges with touch-up paint or clear lacquer. Keep foot traffic and following trades traffic to a minimum.	
Fastener types	Primary: A2 stainless steel 5.5mm ∅, 19mm ∅ sealer washer, colour matched head Stitchers: A2 stainless steel 5.5mm or 6.3mm ∅, 16mm ∅ sealer washer, colour matched head.	
Fastener frequency	End laps (150mm), 5No/m, central to end lap: Intermediate supports, 3No/m (each side of side lap and central trough), subject to wind load design. Edge distance minimum 30mm. Side laps, max 450mm centres	
Sealants	≥4°: 5 x 6mm Class A butyl: End laps, 2 lines nominally 120mm apart, above and below the fixing: side laps, 1 line to the outside of the stitcher screws.	
Reference Standards	Tata Colorcoat HPS200 Ultra®: BBA 91/2717/ps8 Tata Colorcoat® LG: BBA 91/2717/ps3 Tata Colorcoat Prisma®: BBA 91/2717/ps2 Profile section properties and load-span tables by Oxford Brookes University 2014 Tata Colorcoat HPS200 Ultra®, Tata Colorcoat® LG and Tata Colorcoat Prisma® are trademarks of Tata Steel UK Limited	BS EN 508-1:2000 BS EN 14782 BS EN 10346: 2009 BS EN 14782 BS 5427:96 BS EN 1991-1-3

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