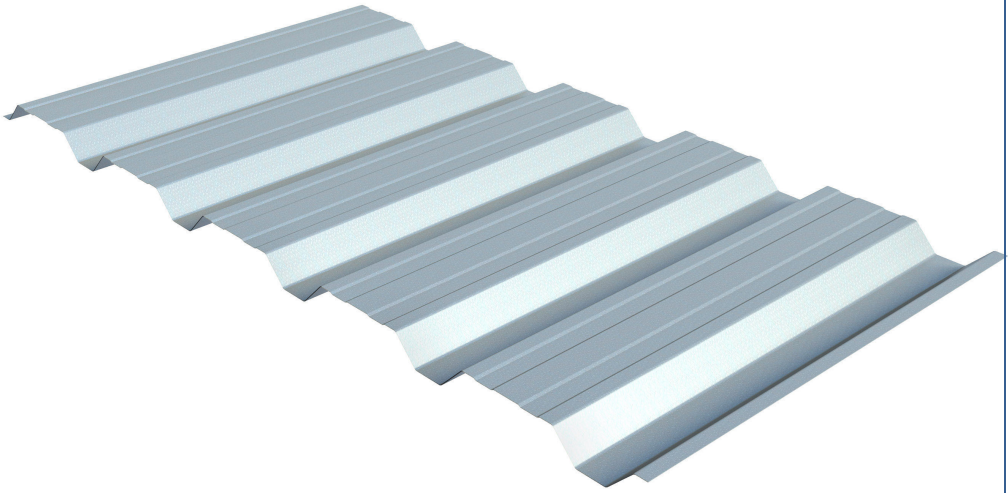


## Arkdeck 32.200.1000: 04-a-Ark-Prod-03/2015

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Profile dimensions	 <p><b>GBBM</b></p> <p><b>Colour side</b> A = to top side/ broad flat B = to underside/ narrow flat</p>									
Cover width										
Depth										
Pitch										
Colour side A = to top side B = to underside										
Profile dimensions	Cover width: 1000mm			Depth: 32mm			Pitch: 200mm			
Material	0.70 plain: Plain galvanised steel, S280GD+Z275/MZ150/ZA100: EN 10326. Plain galvanised finish. 0.70 RAL9010: RAL9010 galvanised steel, S220GD+Z275/MZ150/ZA100: EN 10326. 15micron RAL9010 polyester bright white finish.									
CE reference	Ark.DoP.011, 012: BS EN 14782									
Section properties		Weight	Broad flange in compression			Narrow flange in compression		Reaction, Shear		
	$t_N$ mm	kg/m <sup>2</sup>	$M_{C,Rk,F}$ (kNm/m)	$I_{eff}$ (cm <sup>4</sup> /m)	$M_{C,Rk,F}$ (kNm/m)	$I_{eff}$ (cm <sup>4</sup> /m)	$R_{w,Rk,B}$ (kN/m)	$V_{w,Rk}$ (kN/m)		
	0.70 RAL9010	6.9	1.116	9.379	1.035	9.267	9.202	33.78		
	0.70 plain	6.9	1.405	9.021	1.26	8.964	10.381	42.993		
Structural: Single spans Positive (gravity) loads kN/m <sup>2</sup>	$t_N$ mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	5.95	4.13	2.81	*	*	*	*	*	*
	0.70 plain	6.92	4.35	2.74	1.84	1.29	*	*	*	*
Structural: Single spans negative (wind uplift) loads kN/m <sup>2</sup>	$t_N$ mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	5.52	3.83	2.82	*	*	*	*	*	*
	0.70 plain	6.72	4.67	3.43	2.44	1.71	*	*	*	*

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Structural: Double spans positive (gravity) loads kN/m <sup>2</sup>	t <sub>N</sub> mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	3.25	2.47	1.95	1.58	1.31	*	*	*	*
	0.70 plain	3.79	2.90	2.30	1.87	1.55	1.31	1.12	*	*
Structural: Double spans negative (wind uplift) loads kN/m <sup>2</sup>	t <sub>N</sub> mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	5.95	4.13	3.04	2.33	1.84	*	*	*	*
	0.70 plain	7.49	5.2	3.82	2.93	2.31	1.87	1.55	*	*
Structural: Triple spans positive (gravity) loads kN/m <sup>2</sup>	t <sub>N</sub> mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	3.86	2.95	2.34	1.9	1.58	*	*	*	*
	0.70 plain	4.5	3.45	2.74	2.24	1.86	1.57	1.18	0.91	*
Structural: Triple spans negative (wind uplift) loads kN/m <sup>2</sup>	t <sub>N</sub> mm	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m	2.4m	2.6m
	0.70 RAL9010	7.44	5.17	3.80	2.91	2.30	*	*	*	*
	0.70 plain	9.37	6.50	4.78	3.66	2.85	2.08	1.56	1.20	*
Fire properties	Class 0 or 'low risk' internal surface spread of flame as defined in the national Building Regulations. Reaction to fire classification A1 to BS EN 13501-1									
Load/span table criteria	End bearing >40mm, intermediate > 60mm. Loads in kN/m <sup>2</sup> , including a load factor of 1.5. Table excludes profile self weight. Deflection limits L/200 for positive loads, L/150 for negative (wind) loads. * indicates limit by 2kN/m construction line load.									
Curve options	Along profile: n/a. Across profile nominally 2m, site formed.									
Fastener types	Primary: Carbon steel or A2 stainless steel 5.5mm Ø, 16mm Ø sealer washer. Stitchers: Carbon steel or A2 stainless steel 5.5mm or 6.3mm Ø, 16mm Ø sealer washer, or rivets, as specified by the architect.									
Fastener frequency	End laps (100mm minimum)- 1No/trough minimum, 2No if required by calculations. Edge distance minimum 30mm. Side laps- 450mm nominal centres unless calculations require otherwise (diaphragm).									
Sealants	The air barrier and vcl are provided by the vcl membrane. Deck laps are unsealed. Filler blocks bedded in sealant must be used. Web perforated deck will require filler blocks bedded in sealant to the underside and topside.									
Size/ weight	Max pack weight 2.5t. Smaller pack weights on request, but note that this may affect haulage costs. Minimum sheet size 1.5m, max 13.2m. Plain galvanised profiles should be protected from damp and condensation while in the pack to avoid white rust.									
Reference Standards	BS EN 1991-1-3, BS EN 10143 BS EN 10346, BS EN 1990 BS EN 1993-1-3, BS EN 1993-1-5					BS EN 1991-1-6, BS EN 1991-1-3 BS EN 1991-1-5, BS EN 508-1:2000				