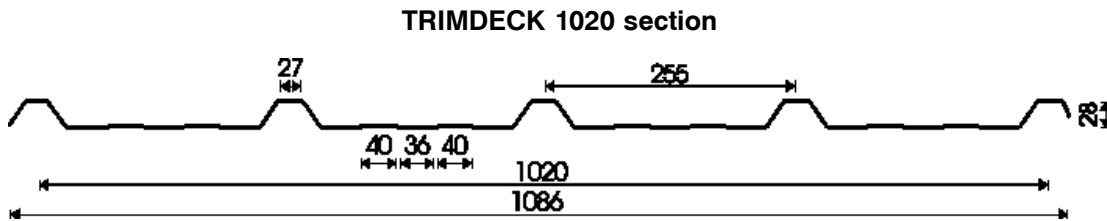


trimdeck 1020

trapezoidal sheet

KAMARIDIS S.A.

Trapezoidal steel sheets of KAMARIDIS SA manufactured from Zinalume®, Colorbond®, Galvabond® and Colorgrain® steel of BHP Steel.



Applications

- **Cladding and roofing**

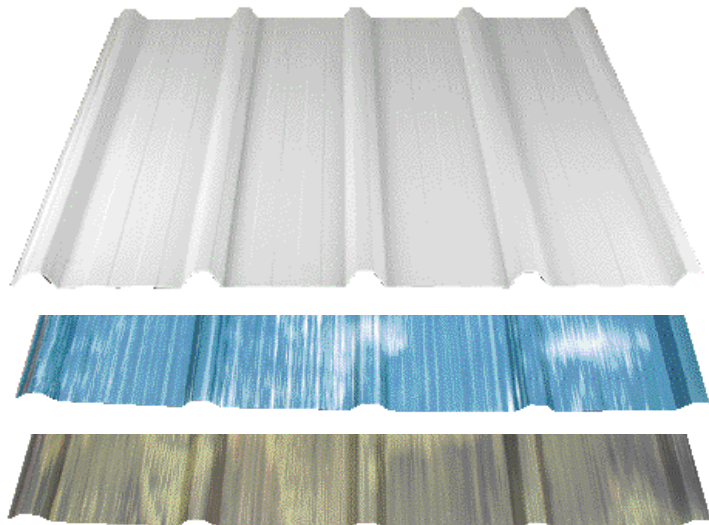
Bare steel sheet for cladding and roofing

- **Composite panels**

Two steel sheets with interposed insulated material (polystyrene panel - rockwool panel - mineral glass fibre etc).

- **Curvature - Perforation**

Trimdeck 1020 can be produced in curved form as well in perforated form; providing a great range of creative combinations to designers, engineers and architects.



Trimdeck 1020 in coloration
Colorbond® and Colorgrain®

Advantages

- **Easy installation**
- **Horizontal and vertical installation**
- **Installation in low pitch roofs**
- **High water draining capacity**
- **Guaranteed water tightness**
- **High corrosion resistance**
- **High mechanical strength**

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trapezoidal sheet

Material specifications

- Steel quality**

- a) G300S1 AZ 150 (according to AS 1397-93)
S320GD AZ 150 (according to EN 10147/00 & EN 10142/00)
- b) G550S1 AZ 150 (according to AS 1397-93)
S550GD AZ 150 (according to EN 10147 & EN 10142)

- Steel base**

Aluminium/Zinc-alloy coated
(Zincalume AZ150 according to AS 1397-93 AS 2728 Cat3 & EN 10152)

- Finish - coating**

Pre-treatment and finish-coating **Colorbond® XRW** (according to AS 1397-93 & EN 10169-2/99 C3)



Technical characteristics

- Steel sheet**

Guaranteed hardness of 300 MPa with typical yield strength 335-380 N/mm² in standard thickness of 0,30 mm - 0,35 mm - 0,40 mm and length from 2.000mm to 12.000mm.

On customer demand, it is also available in different thickness gauge, as well in guaranteed hardness of 550 MPa with typical yield strength 690-770 N/mm² in standard thickness of 0,42 mm and 0,60 mm.

- Oxidation - corrosion protection**

Zincalume® hot-dipped Zinc/Aluminium-alloy coated (43.5% Zn - 55% Al - 1.5% Si) with total coating mass 150 gr/m² which provides 6 times higher protection in unfavourable weather conditions and corrosive environments than simple galvanisation with zinc with total coating mass 275 gr/m².

On customer demand, it is also available with aluminium sheet, galvanised Z275 and stainless steel.

- Finish coating Colorbond® XRW**

Multiple layers, pre-treatment, primer, finish coating of high strength in time guaranteed for 15 years in unfavourable weather conditions without alterations to its colouring.

On customer demand, it is also available with different organic coatings, depending on the use.
(For further details see the section that contains the metal and coating characteristics).

TECHNICAL DATA

TRIMDECK 1020 (G300 AZ 150)		
THICKNESS (mm base metal)	WEIGHT effective (kg/m ²)	SECOND MOMENT (mm ⁴)
0,50	4,80	2,84
0,60	5,70	3,41
0,70	6,70	3,96
0,80	7,60	4,55
1,00	9,40	5,69

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trapezoidal sheet

KAMARIDIS S.A.

Technical characteristics (continued)

Colours

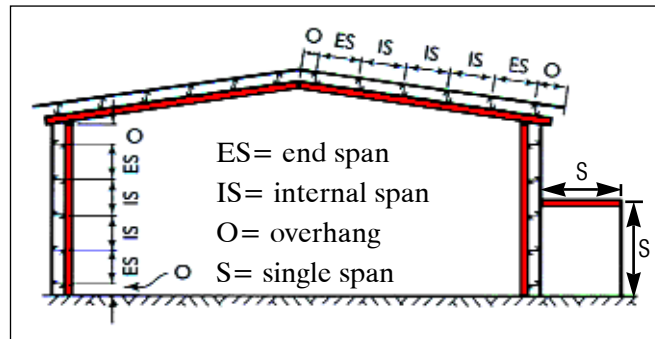
Trimdeck 1020 is manufactured in four basic colours:

Blue RAL \approx 5012, Red RAL \approx 3011, White RAL \approx 9002, Beige RAL \approx 1015.

On customer demand, it is also available in various final colours in RAL scale or **Colorgrain**[®] scale.

Strength calculations

All calculations were carried out at the "Research & Development Laboratories" of LYSAGHT[®] - BHP Building Product of Australia.



Load tables Trimdeck 1020 in KN/m²

GRADE	BASE METAL THICKNESS (mm)	TYPE OF SPAN	FASTENERS PER SHEET PER SUPPORT	LIMIT STATE	SPAN (m)					
					1,20	1,50	1,80	2,10	2,40	
S320GD	0,50 mm	SINGLE (S)	2	Serviceability	1,53	1,17	0,89	0,68	0,52	
				Strength	3,85	3,08	2,46	1,97	1,58	
		END (ES)		Serviceability	1,17	0,96	0,78	0,64	0,52	
				Strength	3,66	2,95	2,37	1,91	1,54	
		INTERNAL (IS)		Serviceability	1,52	1,24	1,02	0,84	0,68	
				Strength	3,93	3,23	2,66	2,18	1,79	
	0,60 mm	SINGLE (S)		2	Serviceability	2,16	1,63	1,23	0,93	0,70
					Strength	4,60	3,73	3,03	2,46	2,00
		END (ES)			Serviceability	2,06	1,57	1,20	0,92	0,70
					Strength	4,59	3,73	3,03	2,46	1,99
		INTERNAL (IS)			Serviceability	2,20	1,74	1,38	1,09	0,86
					Strength	5,00	4,16	3,47	2,89	2,40
0,70 mm	SINGLE (S)	2	Serviceability		2,33	1,78	1,36	1,04	0,79	
			Strength		5,33	4,38	3,60	2,96	2,43	
	END (ES)		Serviceability		2,16	1,81	1,52	1,28	1,07	
			Strength		4,90	4,07	3,38	2,81	2,33	
	INTERNAL (IS)		Serviceability		2,41	1,96	1,59	1,30	1,06	
			Strength		5,46	4,60	3,88	3,26	2,75	
S550GD	0,42 mm		SINGLE (S)	2	Serviceability	1,92	1,38	0,99	0,71	0,51
					Strength	5,17	4,06	3,19	2,50	1,96
			END (ES)		Serviceability	1,59	1,18	0,87	0,64	0,47
					Strength	4,54	3,63	2,91	2,33	1,86
			INTERNAL (IS)		Serviceability	2,11	1,61	1,23	0,94	0,72
					Strength	5,71	4,56	3,65	2,91	2,33
	0,48 mm	SINGLE (S)	2		Serviceability	1,97	1,44	1,05	0,77	0,56
					Strength	5,63	4,51	3,60	2,88	2,31
		END (ES)			Serviceability	1,85	1,33	0,96	0,69	0,50
					Strength	5,05	4,10	3,33	2,70	2,19
		INTERNAL (IS)			Serviceability	2,52	1,92	1,47	1,12	0,86
					Strength	6,59	5,32	4,29	3,46	2,80

Notes:

- Serviceability limit state has been based on (L/200)
- Loads are uniformed distributed
- Numbers are based on 10 gauge Hex Head fasteners, with a minimum head washer diameter of 11 mm, fixed to a minimum 1.00 mm material (S550GD)
- 1 KN/m² = 102 kp/m²

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