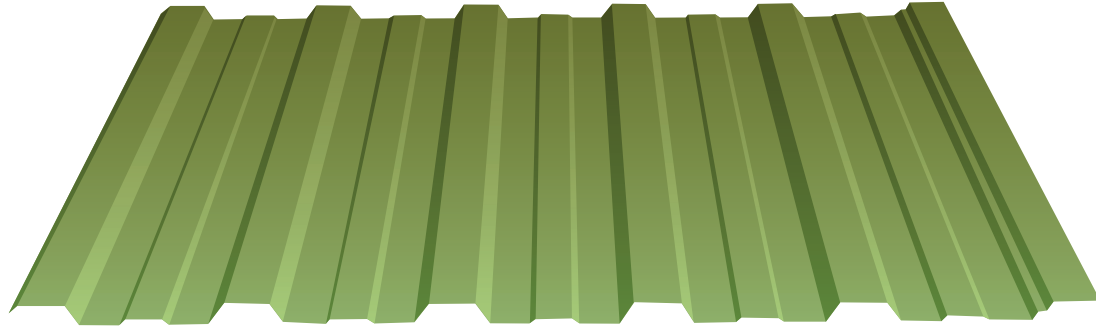
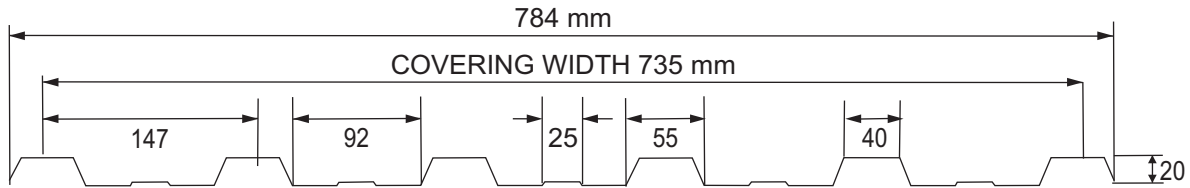


STEEL NW 20/147 PROFILE SHEET



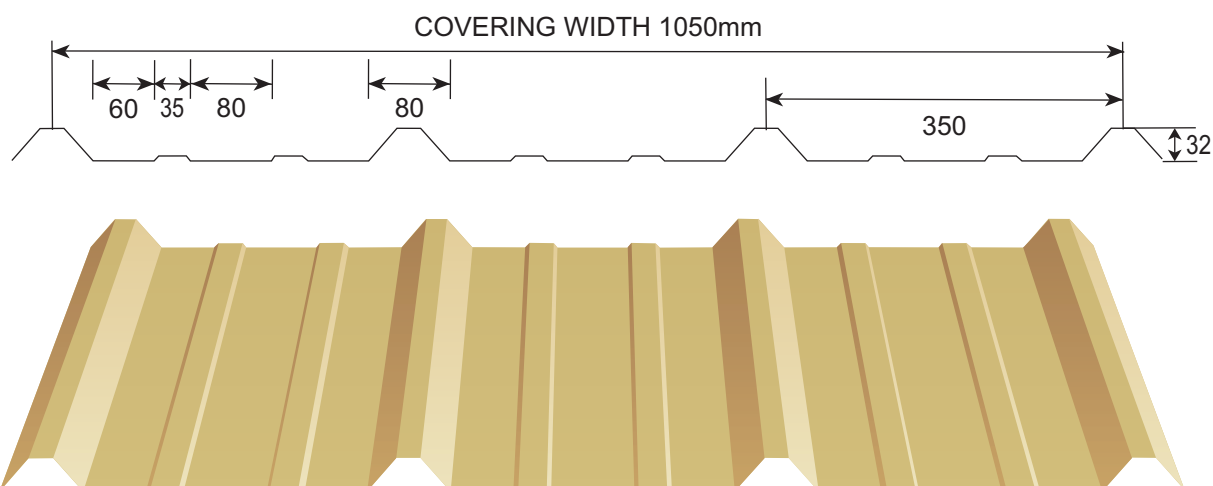
Panel Thickness (Gauge)	Area (Cm ²)	Weight (Kg/m ²)	Inertia (cm ⁴)	Z-Top (cm ³)	Z-Bottom (cm ³)	Maximum Moment	
						Top (Kn.m)	Bottom (Kn.m)
28	3.2500	2.5980	1.9606	1.771	2.825	0.2101	0.2741
26	4.1766	3.2130	2.5205	2.265	3.605	0.3025	0.3551
24	5.1041	3.9256	3.0802	2.758	4.375	0.4058	0.4482

Panel Thickness (Gauge)	Weight Kg/m ²	Span Condition	Purlin Spacing C/C in Meter					
			1.00	1.25	1.50	1.75	2.00	2.25
			Allowable Working Loads (Kn/m ²)					
28	2.598	ONE	5.1296	3.5622	2.2798	1.5320	1.2824	1.0598
		TWO	5.6960	3.9500	2.5331	1.7591	1.4249	1.1776
		THREE	6.1555	4.2746	2.7380	1.8998	1.5389	1.2718
26	3.213	ONE	6.1099	4.2430	2.7155	1.8858	1.5275	1.2624
		TWO	6.7887	4.7144	3.0172	2.0953	1.6972	1.4026
		THREE	7.3318	5.0916	3.2586	2.2629	1.8300	1.5148
24	3.926	ONE	7.8693	5.4650	3.4970	2.4289	1.9674	1.6259
		TWO	8.7436	6.0720	3.8860	2.6980	2.1860	1.8065
		THREE	9.4434	6.5580	4.1970	2.9140	2.3609	1.9511

Technical Specifications:

- The pre-painted roof and wall panels shall be 26 Gauge/24 Gauge Zinc Galvanized steel roll formed sheets.
- The steel shall have a minimum yield strength of 29 KN/cm² and confirm to ASTM A 653.
- The Zinc coating is achieved through a continuous hot dip galvanizing process that equals to or exceeds as per ASTM A 527.
- Exterior surface shall be precision coated with baked enamel polyester coated type finish to dry film thickness 25 (±5 microns). The reverse side shall be Grey/White with 5 microns film thickness.
- North West Ribs is available in different colors.

STEEL NW 32/350 PROFILE SHEET



Panel Thickness (Gauge)	Area (Cm²)	Weight (Kg/m²)	Inertia (cm⁴)	Z-Top (cm³)	Z-Bottom (cm³)	Maximum Moment		
						Top (Kn.m)	Bottom (Kn.m)	
26	5.00	4.29	5.86	1.59	5.20	0.34	0.39	
24	6.06	5.17	6.87	2.21	7.13	0.46	0.52	
22	7.68	6.31	8.93	2.86	10.04	0.61	0.68	
Panel Thickness (Gauge)	Weight Kg/m²	Span Condition	Purlin Spacing C/C in Meter					
			1.00	1.25	1.50	1.75	2.00	2.25
			Allowable Working Loads (Kn/m²)					
26	4.29	ONE	2.56	1.64	1.14	0.79	0.54	0.35
		TWO	2.56	1.65	1.18	0.87	0.66	0.52
		THREE	3.30	2.06	1.44	1.07	0.83	0.60
24	5.17	ONE	3.52	2.25	1.56	1.10	0.62	0.47
		TWO	3.54	2.30	1.64	1.21	0.92	0.73
		THREE	4.60	2.88	2.00	1.48	1.15	0.80
22	6.31	ONE	4.72	3.02	1.85	1.20	0.83	0.60
		TWO	4.60	3.00	2.14	1.80	1.20	0.95
		THREE	6.00	3.75	2.61	1.94	1.50	1.07

Technical Specifications:

- The pre-painted roof and wall panels shall be 26 Gauge/24 Gauge Zinc Galvanized steel roll formed sheets.
- The steel shall have a minimum yield strength of 29 KN/cm² and confirm to ASTM A 653.
- The Zinc coating is achieved through a continuous hot dip galvanizing process that equals to or exceeds as per ASTM A 527.
- Exterior surface shall be precision coated with baked enamel polyester coated type finish to dry film thickness 25 (±5 microns). The reverse side shall be Grey/White with 5 microns film thickness.
- North West Ribs is available in different colors.

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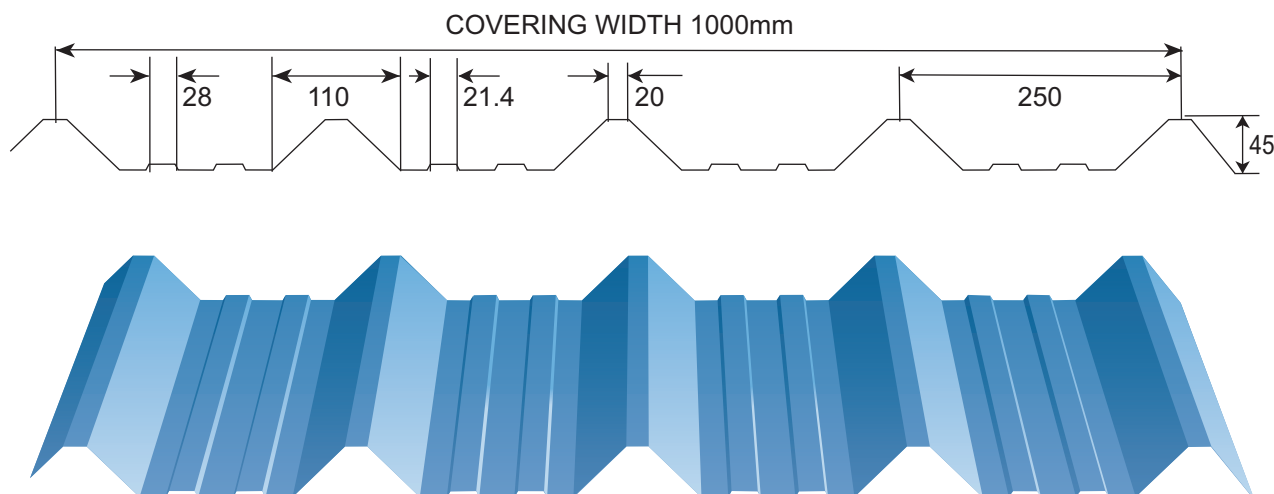
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STEEL NW 45/250 PROFILE SHEET



Panel Thickness (Gauge)	Area (Cm²)	Weight (Kg/m²)	Inertia (cm⁴)	Z-Top (cm³)	Z-Bottom (cm³)	Maximum Moment		
						Top (Kn.m)	Bottom (Kn.m)	
26	5.37	4.40	7.41	3.92	9.63	0.76	0.91	
24	6.51	5.30	8.92	4.99	11.76	0.98	1.18	
22	8.25	6.70	12.7	6.45	13.94	1.28	1.53	
Panel Thickness (Gauge)	Weight Kg/m²	Span Condition	Purlin Spacing C/C in Meter					
			1.00	1.25	1.50	1.75	2.00	2.25
			Allowable Working Loads (Kn/m²)					
26	4.40	ONE	6.08	3.89	2.70	1.99	1.31	0.93
		TWO	6.64	4.25	2.95	2.17	1.66	1.31
		THREE	8.30	5.31	3.69	2.17	2.08	1.64
24	5.30	ONE	7.92	5.07	3.52	2.59	1.68	1.18
		TWO	8.64	5.53	3.84	2.82	2.16	1.71
		THREE	10.80	6.91	4.80	3.53	2.70	2.13
22	6.70	ONE	10.40	6.66	4.62	3.40	2.23	1.57
		TWO	10.96	7.01	4.87	3.58	2.74	2.16
		THREE	13.70	8.77	6.09	4.47	3.43	2.71

Technical Specifications:

- The pre-painted roof and wall panels shall be 26 Gauge/24 Gauge Zinc Galvanized steel roll formed sheets.
- The steel shall have a minimum yield strength of 29 KN/cm² and confirm to ASTM A 653.
- The Zinc coating is achieved through a continuous hot dip galvanizing process that equals to or exceeds as per ASTM A 527.
- Exterior surface shall be precision coated with baked enamel polyester coated type finish to dry film thickness 25 (±5 microns). The reverse side shall be Grey/White with 5 microns film thickness.
- North West Ribs is available in different colors.

NORTH WEST ENGINEERING WORKS L.L.C.

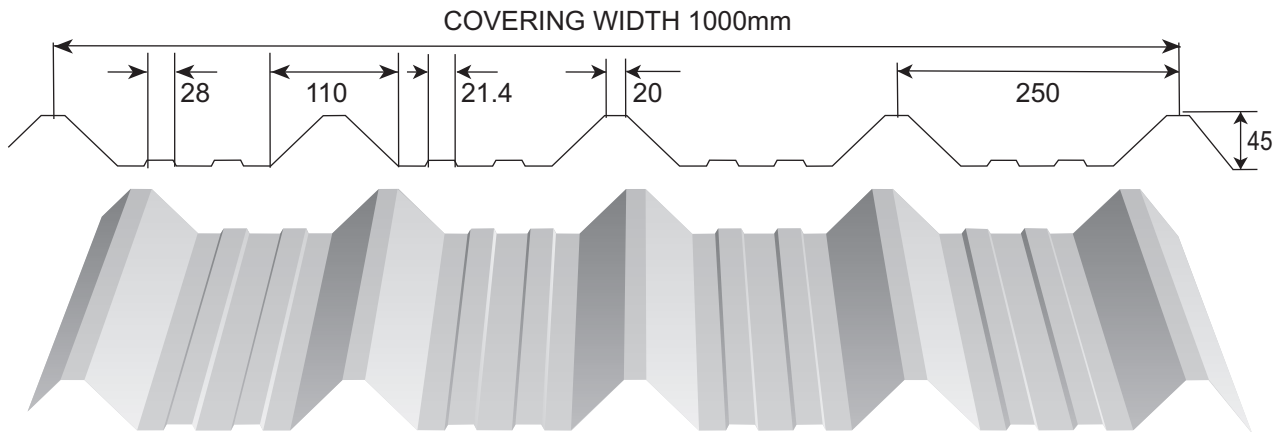
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ALUMINIUM NW 45/250 PROFILE SHEET



Panel Thickness (mm)	Weight (Kg/m ²)	Moment of Inertia (cm ⁴)	Section Modulus (cm ³)	Ultimate positive moment of resistance (Kn-m)	Maximum Recommended sheet length (m)
0.5	1.83	7.52	2.21	0.38	8
0.6	2.20	10.1	3.06	0.52	8
0.7	2.31	12.7	3.90	0.66	10

Panel Thickness (mm)	Weight Kg/m ²	Span Condition	Purlin Spacing C/C in Meter					
			1.00	1.25	1.50	1.75	2.00	2.25
			Allowable Working Loads (Kn/m ²)					
0.5	1.83	ONE	5.30	2.17	1.05	0.56	0.32	0.21
		TWO	8.30	4.60	1.75	1.00	0.90	0.70
		THREE	9.39	5.12	2.96	1.86	1.25	0.88
0.6	2.2	ONE	6.56	2.60	1.26	0.68	0.40	0.25
		TWO	9.50	5.10	2.20	1.75	0.90	0.60
		THREE	11.50	6.14	3.55	2.24	1.50	1.05
0.7	2.31	ONE	7.42	3.04	1.46	0.80	0.50	0.30
		TWO	9.50	5.01	3.00	1.50	1.00	0.80
		THREE	13.35	7.16	4.20	2.61	1.75	1.23

This Profile can be produced in any of the following technical specifications:

Thickness : 0.5mm To 0.7mm
 Coating : Polyester coating 20 to 25 microns on weather side,
 Epoxy primer 5 microns on reverse side. Other coatings available on request.
 Colours : See separate colour chart from raw material supplier.
 Material Specifications : See separate brochure from raw material supplier.

Calculations are based on AISI and on a limiting stress 170 N/mm²

Thickness refers to overall thickness.

The recommended maximum length is based on ease of handling on site and erection.

NW produces any length that may be required.

Such details are indicative of products available and shall not replace agreed offers and specifications.

NW reserves the right to amend the above details at any time without notification.

NORTH WEST ENGINEERING WORKS L.L.C.

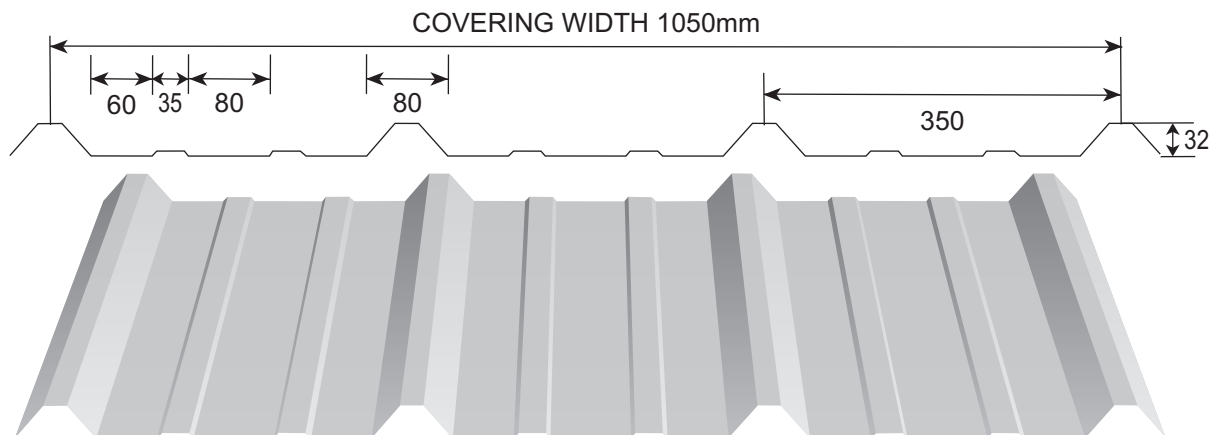
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ALUMINIUM NW 32/350 PROFILE SHEET



Panel Thickness (mm)	Weight (Kg/m ²)	Moment of Inertia (cm ⁴)	Section Modulus (cm ³)	Ultimate positive moment of resistance (Kn-m)	Maximum Recommended sheet length (m)
0.5	1.67	6.14	2.37	0.29	8
0.6	1.98	7.44	2.86	0.36	8
0.7	2.27	8.93	3.47	0.39	10

Panel Thickness (mm)	Weight Kg/m ²	Span Condition	Purlin Spacing C/C in Meter					
			1.00	1.25	1.50	1.75	2.00	2.25
			Allowable Working Loads (Kn/m ²)					
0.5	1.67	ONE	1.61	0.82	0.48	0.30	0.20	0.14
		TWO	2.00	1.20	0.65	0.40	0.28	0.20
		THREE	2.72	1.55	0.90	0.57	0.28	0.27
0.6	1.98	ONE	1.93	0.99	0.57	0.26	0.24	0.17
		TWO	2.50	1.30	0.80	0.45	0.32	0.21
		THREE	3.26	1.56	1.08	0.68	0.45	0.32
0.7	2.27	ONE	2.25	1.15	0.67	0.42	0.28	0.20
		TWO	2.90	1.75	0.75	0.62	0.38	0.28
		THREE	3.80	2.17	1.26	0.79	0.53	0.37

This Profile can be produced in any of the following technical specifications:

Thickness : 0.5mm To 0.7mm
 Coating : Polyester coating 20 to 25 microns on weather side,
 Epoxy primer 5 microns on reverse side. Other coatings available on request.
 Colours : See separate colour chart from raw material supplier.
 Material Specifications : See separate brochure from raw material supplier.

Calculations are based on AISI and on a limiting stress 170 N/mm²

Thickness refers to overall thickness.

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