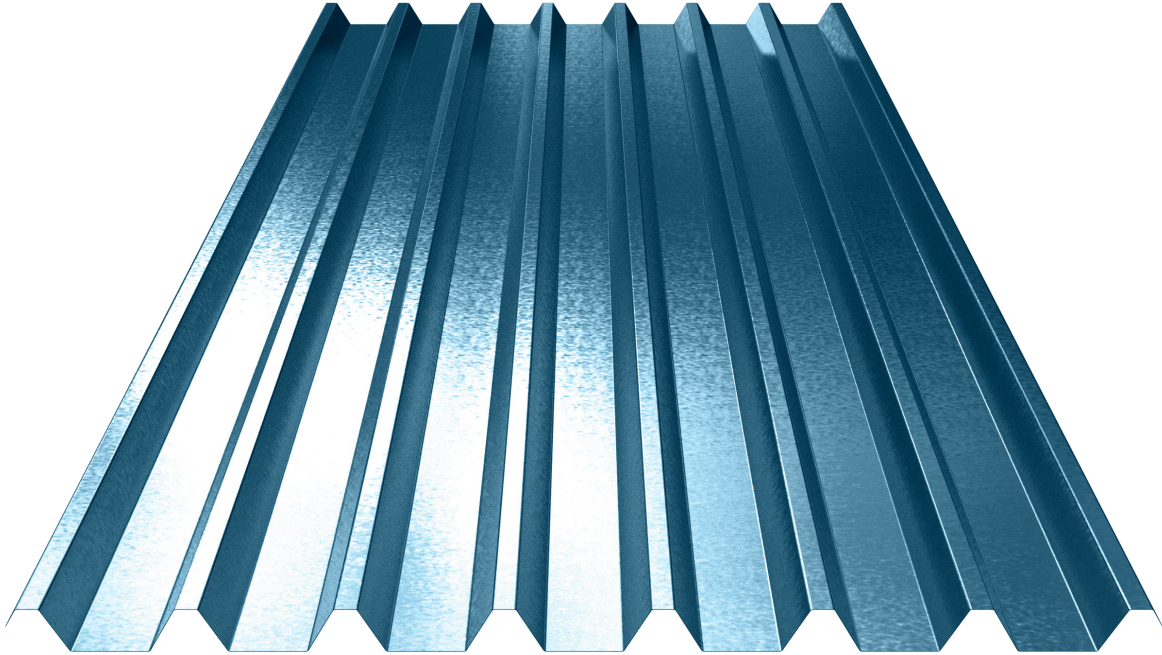


MetaLite COV Ridg 39/128

Self-supporting metal sheets with a 39/128 trapezoidal profile, suitable for roofing applications on all types of buildings

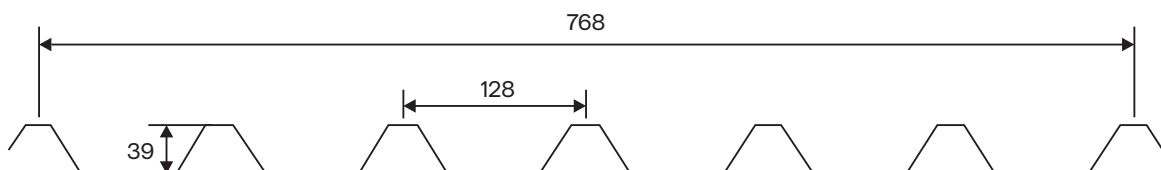
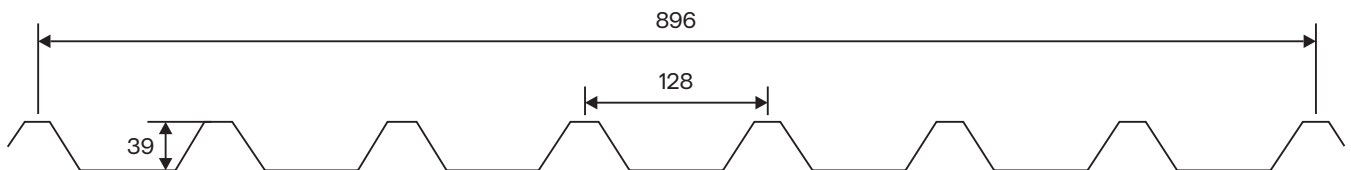


Available in

Effective cover width 768 mm and 896 mm

Length up to 12 m, depending on project requirements

The 39/128 trapezoidal profile, due to its dense ribbing, is ideal for applications requiring high load-bearing performance. Its side lap ensures excellent watertightness.



Technical Specifications

Effective cover width [mm]	Developed width [mm]	Steel weight [kg/m]	Aluminium weight / width [kg/m]
896	1250	4,91	1,72
768	1100	4,32	1,51

The weight per linear metre was calculated based on:

- Sheet thickness 0.50 mm
- Steel density 7850 kg/m³
- Aluminium density 2750 kg/m³

Dimensional Tolerances

(Standards EN 14782 and EN 508)

Parameter	Symbol	Tolerance
Sheet thickness	t	Steel Standard: EN 10143 Aluminum Standard: EN 485-4
Profile depth	h	± 1,0 mm, h ≤ 50 mm ± 1,5 mm, 50 < h ≤ 100 mm ± 2,0 mm, h > 100 mm
Step of the profile	p	± 2,0 mm, h ≤ 50 mm ± 3,0 mm, 50 < h ≤ 100 mm ± 4,0 mm, h > 100 mm
Width of peaks and valleys	b	-1,0 mm ~ +4,0 mm
Usable width	w _{1,2,3}	± 5,0 mm, h ≤ 50 mm ± 0,1*h ≤ 15 mm, h > 50 mm
Inner radius	r	± 2,0 mm
Deviation from straightness	δ	≤ 2,0 mm/m & ≤ 10 mm
Deviation from orthogonality	S	No requirement
Leaf length	l	-5 mm ~ +10 mm, L ≤ 3000 mm -5 mm ~ +20 mm, L > 3000 mm
Side overlap deviation	D	± 2,0 mm, l < 500 mm
Rib depth	hr vs	-1,0 mm ~ +3,0 mm -0,15*v ~ +2,0 mm
Rib position	ha,b,k	± 3,0 mm
Longitudinal acne female	s	-2,0 mm ~ +5,0 mm & s ≥ 10,0 mm
Male longitudinal acne	buf	bu/2 + 5,0 ≤ buf ≤ bu-5, bu ≤ 30,0 mm 20,0 ≤ buf ≤ bu-5, bu > 30,0 mm
Peak curvature	he	± 3,0 mm
Hole diameter	dn	± 0,2 mm, Ø ≤ 5,0 mm -0,2 mm ~ +0,4 mm, Ø > 5,0 mm
Step holes	ux	- 1,0 mm ~ +2,0 mm
Line spacing	v	± 2,0 mm
Column spacing	uy	± 2,0 mm
Number of lines	-	± 3,0 %, full perforation
Number of columns	-	± 3,0 %, full perforation

Steel sheet with galvanized protection, thickness > 0,6 mm.

Aluminum sheet, thickness > 0,7mm.

Stainless steel sheet, thickness 0,7mm.

Nominal thickness	mm	0,45	0,50	0,60	0,80	0,90	1,00
Cross-section weight	Kg/m ²	4,93	5,48	6,57	8,76	9,86	10,95
Moment of inertia I _x	cm ⁴ /m	13,49	14,99	17,99	23,98	26,98	29,98
Lower leakage limit	N/mm ²	275	EN 10346:2013				

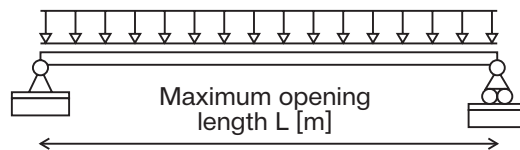
(concerns usable width 896mm)

Max load in span Load bearing capacity (kg/m²)

Single Span Load Table

PANEL THICKNESS

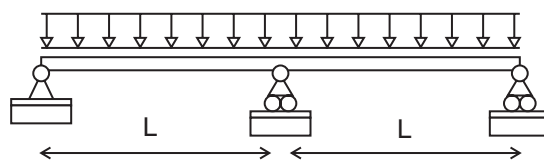
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
• Single-span structural system									
• Maximum service load Q in kN/m ² for positive bending moment, negative bending moment, and vertical shear	0,45	6,54	4,17	2,56	1,61	1,07	0,75	0,54	0,41
	0,50	7,80	4,92	2,84	1,79	1,19	0,84	0,61	0,45
	0,60	9,57	5,91	3,42	2,15	1,44	1,00	0,73	0,55
• Steel grade DX51D+Z	0,80	12,7	7,88	4,56	2,87	1,92	1,34	0,98	0,73
• Maximum span length L [m]	0,90	14,3	8,87	5,13	3,23	2,16	1,51	1,10	0,82
• Width of simply supported bearing 50mm	1,00	15,9	9,85	5,70	3,58	2,40	1,68	1,22	0,92



Multi Span Load Table

PANEL THICKNESS

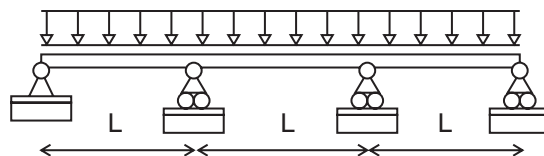
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
• Single-span structural system									
• Maximum service load Q in kN/m ² for positive bending moment, negative bending moment, and vertical shear	0,45	6,15	3,92	2,71	1,98	1,50	1,18	0,95	0,77
	0,50	6,96	4,44	3,07	2,24	1,70	1,34	1,07	0,88
	0,60	8,54	5,45	3,76	2,75	2,09	1,64	1,32	1,08
• Steel grade DX51D+Z	0,80	11,7	7,50	5,18	3,79	2,88	2,26	1,82	1,49
• Maximum span length L [m]	0,90	13,3	8,48	5,86	4,28	3,26	2,56	2,05	1,68
• Width of simply supported bearing 50mm	1,00	15,1	9,61	6,64	4,85	3,69	2,90	2,33	1,91



Threes & Openings Table

PANEL THICKNESS

	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
• Single-span structural system									
• Maximum service load Q in kN/m ² for positive bending moment, negative bending moment, and vertical shear	0,45	7,70	4,91	3,4	2,48	1,89	1,43	1,04	0,78
	0,50	8,72	5,56	3,85	2,81	2,14	1,60	1,16	0,87
	0,60	10,6	6,82	4,72	3,45	2,63	1,91	1,39	1,04
• Steel grade DX51D+Z	0,80	14,7	9,39	6,50	4,75	3,62	2,55	1,86	1,39
• Maximum span length L [m]	0,90	16,6	10,6	7,35	5,37	4,08	2,87	2,09	1,57
• Width of simply supported bearing 50mm	1,00	18,8	12,1	8,33	6,09	4,53	3,19	2,32	1,74



Ultimate limit state in accordance with Eurocode 3 (EN 1993-1-3 and EN 1993-1-5).

For the serviceability limit state, a safety factor of G permanent loads + Q variable loads = 1.00 is applied.

The allowable deflection for each span is defined as less than L/200 for G+Q and L/250 for Q only, where L is the span.

For the ultimate limit state, a safety factor S = 1.1 is applied for a load equal to 1.35 G + 1.50 Q.