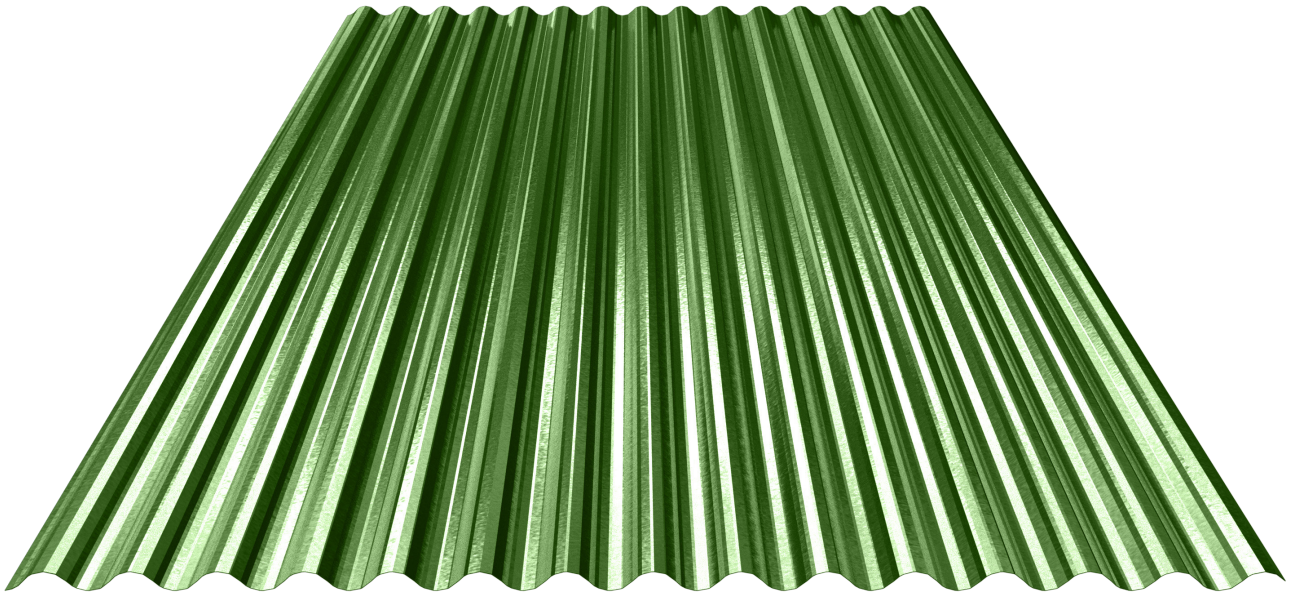


MetaLite COV Rip

Self-supporting metal sheets with a 19/76 corrugated profile, suitable for roofing applications on all types of buildings

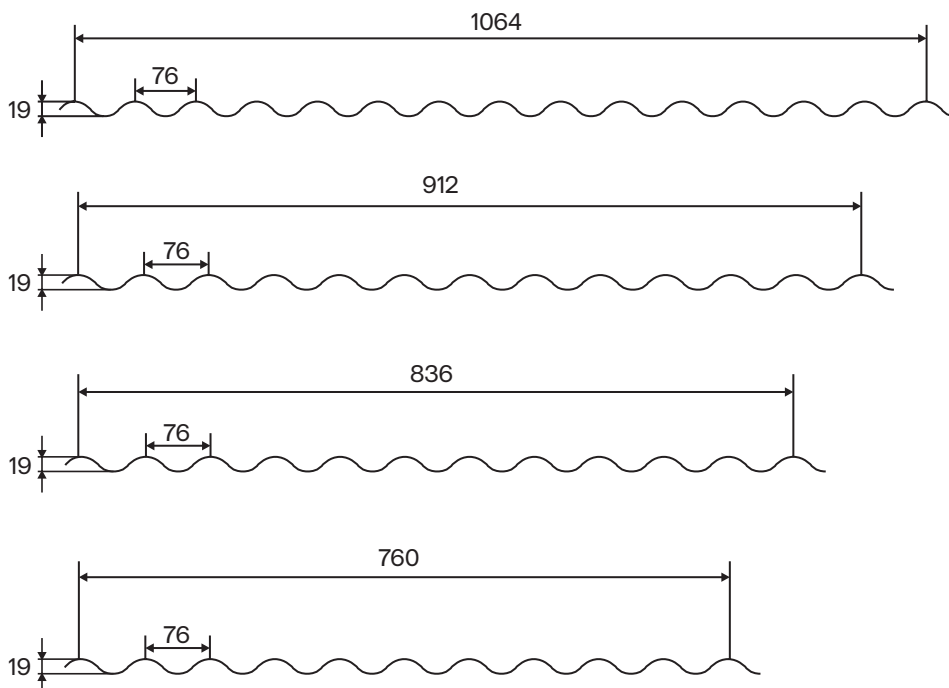


Available in

Effective cover width 760mm, 836mm, 912mm and 1064mm

Length up to 12 m, depending on project requirements

The corrugated profile, due to its flexibility, can be curved easily, while its side joint provides very good watertightness.



Technical Specifications

Effective cover width [mm]	Developed width [mm]	Steel weight [kg/m]	Aluminium weight / width [kg/m]
1064	1250	4,91	1,72
912	1100	4,32	1,51
836	1000	3,93	1,38
760	920	3,61	1,27

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)

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	± 3,0 mm
Effective cover width	w _{1,2,3}	± 0.01*w
Inner radius	r	± 10%
Deviation from orthogonality	S	S ≤ 0.005*w
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

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

Aluminum sheet, thickness > 0,7mm.

Stainless steel sheet, thickness 0,7mm.

Nominal thickness	mm	0,50	0,60	0,80	AL 0.60	AL 0.80
Cross-section weight	Kg/m ²	4,73	5,68	7,57	1,99	2,65
Moment of inertia I _x	cm ⁴ /m	2,88	3,91	5,99	3,91	5,99
Lower leakage limit	N/mm ²	275	EN 10346:2013		150 EN 508-2	

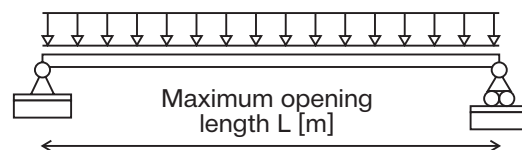
(concerns usable width 912mm)

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

- Single-span structural system
- Maximum service load Q in kN/m² for positive bending moment, negative bending moment, and vertical shear
- Steel grade DX51D+Z
- Maximum span length L [m]
- Width of simply supported bearing 50mm

Single Span
Load Table
PANEL THICKNESS

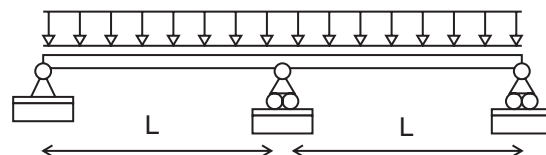
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	1,96	1,06	0,61	0,41	0,29	0,20	0,14	0,10	0,06
0,60	2,60	1,40	0,81	0,52	0,35	0,25	0,18	0,12	0,08
0,80	3,69	1,99	1,15	0,70	0,47	0,33	0,23	0,16	0,10
AL 0.60	0,69	0,36	0,21	0,13	0,09	0,06	0,04	0,03	0,02
AL 0.80	0,94	0,48	0,28	0,17	0,12	0,08	0,06	0,04	0,02



- Single-span structural system
- Maximum service load Q in kN/m² for positive bending moment, negative bending moment, and vertical shear
- Steel grade DX51D+Z
- Maximum span length L [m]
- Width of simply supported bearing 50mm

Multi Span
Load Table
PANEL THICKNESS

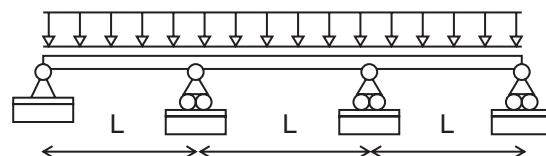
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	2,28	1,44	1,00	0,74	0,56	0,44	0,35	0,26	0,19
0,60	2,79	1,76	1,22	0,90	0,69	0,54	0,43	0,32	0,23
0,80	3,81	2,41	1,68	1,23	0,94	0,74	0,59	0,43	0,31
AL 0.60	0,90	0,47	0,27	0,17	0,11	0,08	0,06	0,04	0,02
AL 0.80	1,22	0,63	0,36	0,23	0,15	0,11	0,08	0,05	0,03



- Single-span structural system
- Maximum service load Q in kN/m² for positive bending moment, negative bending moment, and vertical shear
- Steel grade DX51D+Z
- Maximum span length L [m]
- Width of simply supported bearing 50mm

Threes &
Openings Table
PANEL THICKNESS

	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	2,80	1,78	1,24	0,92	0,68	0,53	0,42	0,39	0,22
0,60	3,43	2,18	1,52	1,12	0,83	0,65	0,51	0,47	0,27
0,80	4,69	2,97	2,08	1,53	1,14	0,89	0,70	0,63	0,36
AL 0.60	1,17	0,61	0,35	0,22	0,15	0,10	0,07	0,05	0,03
AL 0.80	1,58	0,82	0,47	0,30	0,20	0,14	0,10	0,06	0,04



Ultimate limit state according to Eurocode 3 (Standards 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 adopted.

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 length.

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