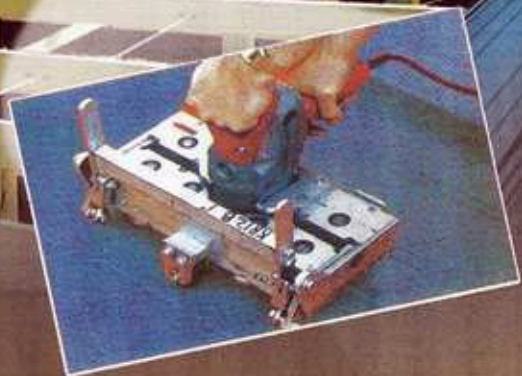


CRIMP IT. LOCK IT.

Probably... Longest recorded continuous roofing in the world at 355 ft.



457 610 407

Colorbond[®]

CRIMPLOK

SERIES

Crimp-tight, water-tight

Color may vary from actual product



GENERAL PRODUCT INFORMATION

BASE METAL TYPE: Cold Rolled Steel; 275 MPa or 40,000 psi

SUBSTRATE: GALVALUME 55™; Aluminum-Zinc alloy-coated steel complying with ISO 9364. Also available in GALVABOND™; Lock Forming Quality (PNS 67: 1986)

PAINT COATING: STANDARD
Double oven-baked epoxy primer and regular polyester finish.

COATING

Top: Total of 25 microns
Finish Coat: 20 microns
Primer Coat: 5 microns
Bottom: Total of 10 microns
Backing Coat: 5 microns
Primer Coat: 5 microns

OPTIONAL

Premium Fluorocarbon (PVdF) paint finish on top of corrosion-resistant epoxy primer.

WIDTH AND EFFECTIVE COVERAGE:

CRIMPLOK SERIES	Nominal Width	Effective Coverage
610	477mm	457mm
457	322mm	302mm
407	272mm	252mm

LENGTH: Longspan

ON-SITE ROLLFORMING CAN BE ARRANGED AT MINIMAL CHARGES

AVAILABLE THICKNESSES: 0.40 mm to 0.60mm

SALT SPRAY TEST RATING: Class 1000 hours (passed 1000 hours of continuous exposure as per PNS 201: 1990), the only standing seam-type pre-painted product in the market to have passed class 1000 rating.

SEAM LOCK PROCESS: 180 degrees

RAINFALL CAPACITY:

Roofs in single lengths of 60000mm without laps, 5° slope. CRIMPLOK SERIES can drain off a rainfall intensity as follows

CRIMPLOK SERIES	Rainfall Intensity
610	1019mm/hr
457	978mm/hr
407	946mm/hr

APPLICATIONS: Roofing

STANDARD COLORS: Pacific Blue, Samar Beige, Spanish Red, Tile Red, Laguna White and Baguio Green. Special colors are available upon request.

(THICKER ZINC AND PAINT COATINGS AS WELL AS LONGER SPANS CAN BE ARRANGED)

DESIGN CRITERIA

1. Steel grade is 40,000 psi.

2. Section Properties and Load Tables were computed in strict accordance with the specifications of the AISI.

3. Bending moment formula used for flexural stress limitations is:

$$\text{Continuous span} = \frac{wL^2}{10}$$

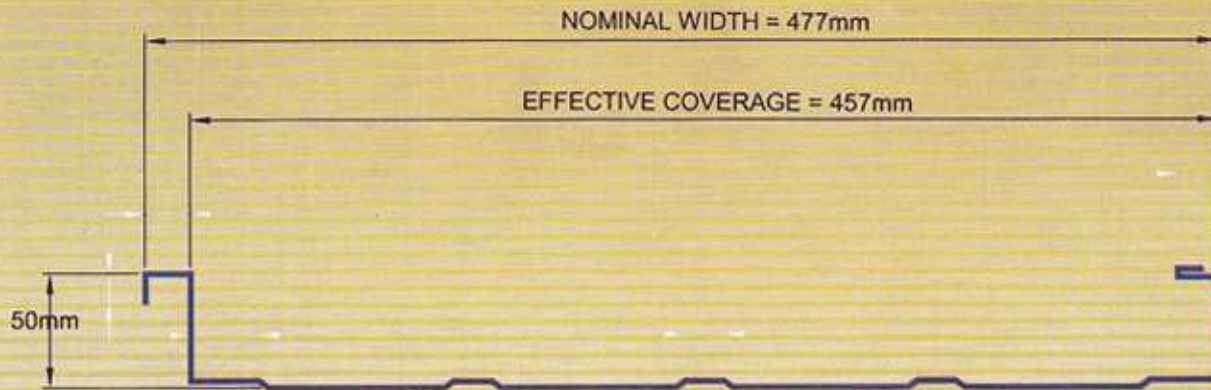
4. Deflection formula for deflection limitation is

$$\text{Continuous span} = \frac{3wL^4}{384EI}$$

5. Minimum Yield Point = 40,000 psi
Allowable Stress Design = 24,000 psi

6. Bending Capacity is computed based on ASD with Safety Factor of 1.67.

CRIMPLOK 610 CROSS - SECTION



SECTION PROPERTIES PER METER / FOOT WIDTH

Thickness	Area		I _x		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm	mm ² / in ²	mm ⁴ / in ⁴	mm ⁴ / in ⁴	mm ³ / in ³	mm ³ / in ³	mm ³ / in ³	mm ³ / in ³	mm / in.	mm / in.	mm / in.	mm / in.
0.40	536.98	0.254	156851	0.115	3806	0.071	16022	0.295	41.21	1.62	9.79	0.39
0.50	671.23	0.317	196064	0.144	4763	0.089	19925	0.386	41.16	1.62	9.84	0.39
0.60	805.47	0.381	235276	0.172	5723	0.106	23789	0.442	41.11	1.62	9.89	0.39

CRIMPLOK 610 LOADING TABLE

0.40 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800
LOAD / DEFLECTION	psf / in.	129 / 0.07	95 / 0.09	72 / 0.11	57 / 0.15	46 / 0.18	38 / 0.22	32 / 0.26
	L / 240	psf	292	184	123	86	63	47
L / 360	psf	195	123	82	58	42	32	24

0.50 mm

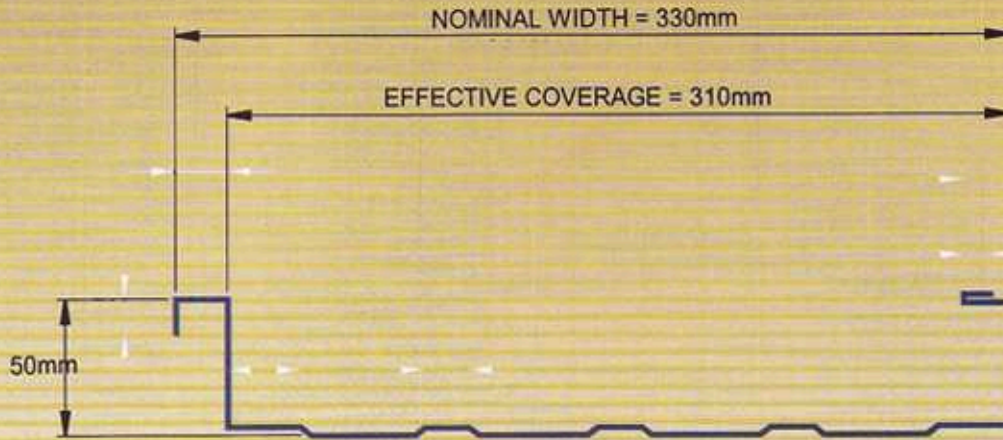
SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950
LOAD / DEFLECTION	psf / in.	162 / 0.07	119 / 0.09	91 / 0.12	72 / 0.15	58 / 0.18	48 / 0.22	40 / 0.26	34 / 0.30
	L / 240	psf	365	230	154	108	78	59	45
L / 360	psf	244	154	103	72	53	40	30	24

0.60 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100
LOAD / DEFLECTION	psf / in.	195 / 0.07	143 / 0.09	109 / 0.12	86 / 0.15	70 / 0.18	58 / 0.22	48 / 0.26	41 / 0.30	35 / 0.35
	L / 240	psf	438	276	185	130	94	71	54	43
L / 360	psf	293	184	123	87	63	47	37	29	23

Note : Smallest values govern.

CRIMPLOK 457 CROSS - SECTION



SECTION PROPERTIES PER METER / FOOT WIDTH

Thickness mm	Area		Ix		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.40	609.93	0.288	212594	0.156	5590	0.104	16391	0.305	38.03	1.50	12.97	0.51
0.50	762.42	0.360	265742	0.195	6997	0.130	20410	0.379	37.98	1.50	13.02	0.51
0.60	914.90	0.432	318891	0.234	8407	0.156	24399	0.454	37.93	1.49	13.07	0.52

CRIMPLOK 457 LOADING TABLE

0.40 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100
LOAD	psf	190	139	107	84	68	56	47	40	34
	DEFLECTION in.	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33	0.37
L / 240	psf	396	249	167	117	85	64	49	38	31
L / 360	psf	264	166	112	78	57	43	33	26	21

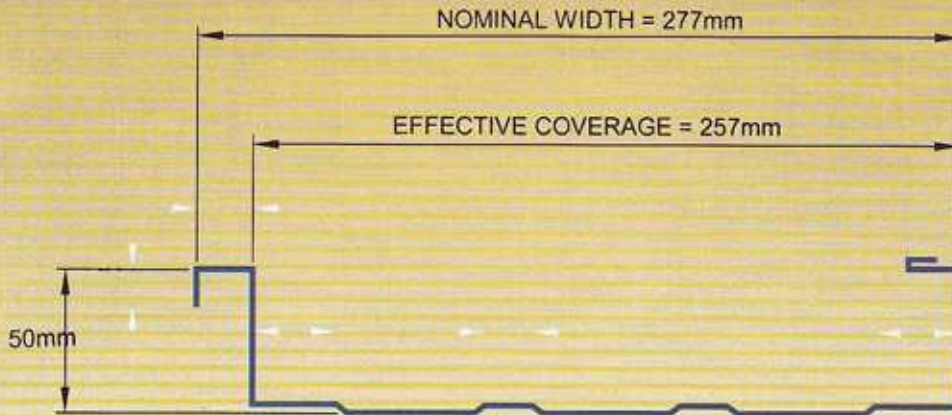
0.50 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100	2250
LOAD	psf	238	175	134	105	85	70	59	50	43	38
	DEFLECTION in.	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33	0.38	0.44
L / 240	psf	495	312	209	146	107	80	61	48	39	31
L / 360	psf	330	208	139	98	71	54	41	32	26	21

0.60 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
LOAD	psf	286	210	161	127	103	85	71	61	52	45	40
	DEFLECTION in.	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33	0.38	0.44	0.50
L / 240	psf	594	374	250	176	128	96	74	58	46	38	31
L / 360	psf	397	250	167	117	86	64	50	39	31	25	21

Note : Smallest values govern.



SECTION PROPERTIES PER METER / FOOT WIDTH

Thickness mm	Area		Ix		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm ²	in. ²	mm ⁴	in. ⁴	mm ³	in. ³	mm ³	in. ³	mm	in.	mm	in.
0.40	652.38	0.308	240347	0.176	6547	-0.121	16819	0.314	36.71	1.45	14.29	0.56
0.50	815.48	0.385	300434	0.220	8195	0.153	20951	0.393	36.66	1.44	14.34	0.56
0.60	978.57	0.462	360520	0.264	9848	0.183	25054	0.463	36.61	1.44	14.39	0.57

CRIMPLOK 407 LOADING TABLE

0.40 mm

SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100
LOAD	psf	222	163	125	98	80	66	55	47	40
DEFLECTION	in.	0.07	0.10	0.13	0.16	0.20	0.25	0.29	0.34	0.39
L / 240	psf	448	282	189	132	96	72	56	44	35
L / 360	psf	299	188	126	89	65	48	37	29	24

0.50 mm

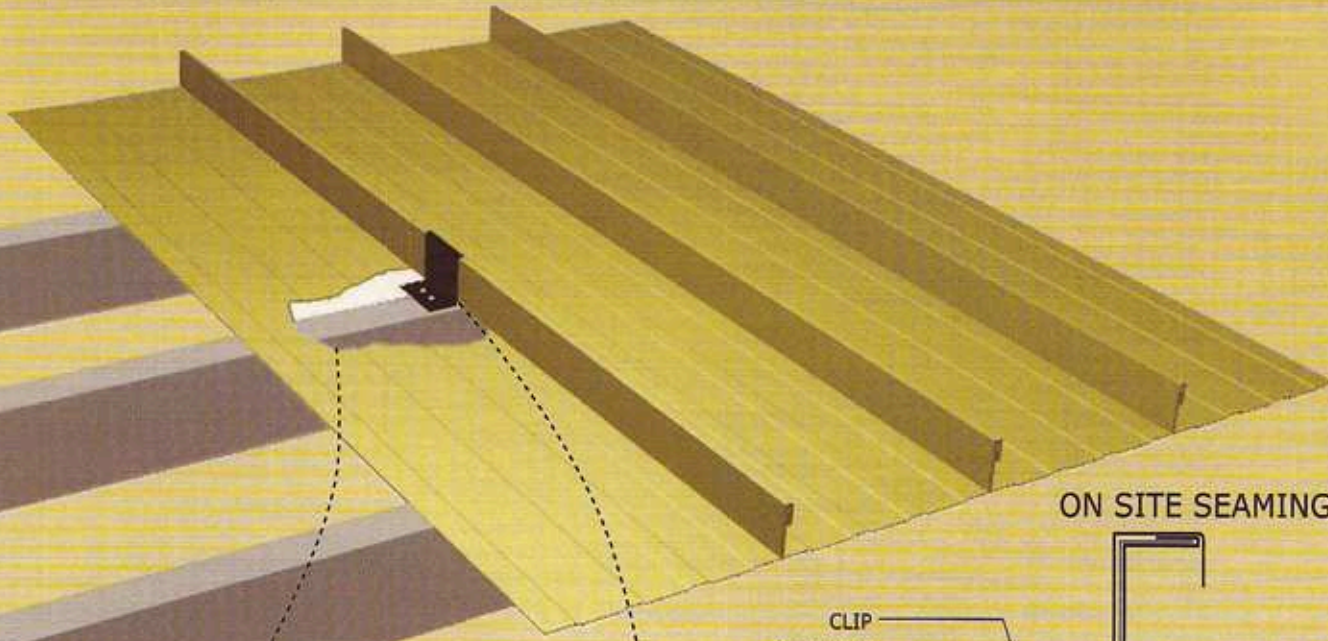
SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100	2250
LOAD	psf	279	205	157	124	100	83	69	59	51	44
DEFLECTION	in.	0.07	0.10	0.13	0.17	0.20	0.25	0.29	0.34	0.40	0.45
L / 240	psf	560	352	236	166	121	90	70	55	44	35
L / 360	psf	374	235	158	111	81	61	47	37	29	24

0.60 mm

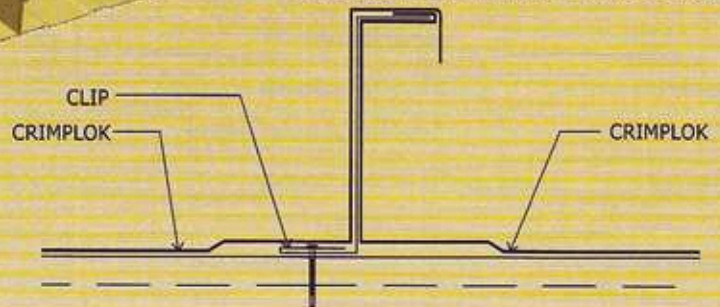
SPAN BETWEEN SUPPORTS	mm	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2100
LOAD	psf	335	246	188	149	120	99	83	71	61	53	47
DEFLECTION	in.	0.07	0.10	0.13	0.17	0.20	0.25	0.23	0.34	0.40	0.45	0.52
L / 240	psf	672	423	283	199	145	109	84	66	52	43	35
L / 360	psf	448	282	189	133	97	73	56	44	35	29	24

Note : Smallest values govern.

SECTION VIEW OF CONCEALED CLIP FASTENING SYSTEM



ON SITE SEAMING PROCESS



PANEL SIDE LAP

