



Permalock & Permaseam Standing Seam Roofing



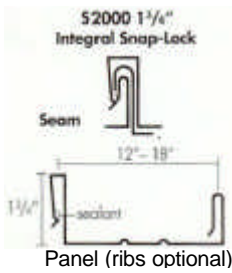
WEST INDIES LIMITED

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PERMALOCK

Permalock (S2000) – 1 3/4" Integral Snap-Lock Panel System combines architectural versatility – for cleanly detailed, continuous seam transitions from roof to mansard, fascia, wall panel or soffit - with the dramatically increased spanning and uplift capabilities of a structural system.

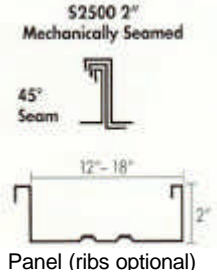


- ? Medium duty for residential, commercial and industrial use
- ? Minimum roof pitch-14Deg
- ? Easy and fast installation
- ? Panels are secured to purlins or substrate by clips allowing for unrestricted thermal movement

- ? Interlocking panel mechanism does not require seaming
- ? Uniformed clean-standing seam profiles, especially in transitions between roof surfaces to mansards and fascia

PERMASEAM

Permaseam (S2500) – 2" Mechanically Seamed Panel System is designed particularly as a structural roof system for pre-engineered building and was extensively tested with over 50 years of history in the field. Permaseam is mechanically seamed for increased strength and water tightness:



- ? Heavy duty for commercial and industrial use
- ? Minimum roof pitch-1.5 Deg
- ? Unique heavy-duty interlock clips allow for thermal effects
- ? May be secured with bearing plates and clips through the insulation to a metal deck
- ? Mechanical seaming provides increased strength and a water tight seam
- ? Mechanical seaming available in 45, 90 and 180 degree

ALLOWABLE UNIFORM LIVE LOADS (PSF)

No. of Spans	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
16" Width – 24G Steel					
2	62	49	40	33	27
3 or more	72	57	46	38	32
16" Width – 22G Steel					
2	80	63	51	42	35
3 or more	93	74	60	49	41
16" Width – .032" Aluminium					
2	23	18	15	12	10
3 or more	27	21	17	14	12
18" Width – 24G Steel					
2	55	43	35	29	24
3 or more	64	51	41	34	28
18" Width – 22G Steel					
2	71	56	45	38	32
3 or more	83	65	53	44	37
18" Width – .032" Aluminium					
2	20	16	13	11	9
3 or more	23	19	15	12	10

Note: Load values shown may be increased by 1/3 for allowable wind load.

ALLOWABLE UNIFORM LIVE LOADS (PSF)

No. of Spans	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
14" Width – 24G Steel					
2	79	62	50	41	34
3 or more	92	72	58	48	40
14" Width – 22G Steel					
2	110	87	70	58	48
3 or more	129	102	82	68	57
16" Width – 24G Steel					
2	69	54	44	36	30
3 or more	80	63	51	42	35
16" Width – 22G Steel					
2	97	76	61	51	42
3 or more	113	89	72	59	50
18" Width – 24G Steel					
2	61	48	39	32	27
3 or more	71	56	45	37	31
18" Width – 22G Steel					
2	86	68	55	45	37
3 or more	100	79	64	53	44

Note: Load values shown may be increased by 1/3 for allowable wind load.

PRODUCT FEATURES

- ⌘ Concealed fastening system
- ⌘ Virtually no visible cut edges
- ⌘ May be specified for applications over solid decking or over purlins or over metal decking with rigid insulation
- ⌘ Extruded Butyl Hot Melt weather seal protects against capillary action and flooding over the seam
- ⌘ Portable roll-former allows virtually unlimited continuous panel lengths
- ⌘ Custom & standard panel widths available
- ⌘ Optional ribs and panel striations accentuate rooflines and help to prevent oil canning.
- ⌘ Panels are installed over a layer of roofing felt
- ⌘ Clip design provides for a 1/4" minimum clearance between the bottom of the panel and the substrate, allowing ventilation underneath
- ⌘ Approved installers deliver a well crafted and constructed roof cover for optimal weather tightness and visual appeal
- ⌘ Available in over 22 Colours (subject to minimum order quantities)
- ⌘ Available in plain, pre-painted and aluminium finishes (subject to minimum order quantities)
- ⌘ Meets requirements for Underwriter's Laboratory UL90 wind uplift resistance. Panels survive 105lbs/sq.ft uplift pressure – representing wind speeds in excess of 175mph
- ⌘ Fire resistance tested to ASTM E-84-87 (does not burn or support combustion)
- ⌘ ASTM air and water infiltration tested

MATERIAL TYPES

Pre-Painted Metal – 0.6mm (24G) Permaclad base conforming to ASTM A-792-93 Grade 345A (50A) with a baked-on paint finish. Paint finishes are in accordance with either of the following specs dependent on its source:

A. PermaColour 2000 – 70% Kynar paint finish comprised of a .8 to .9 mil full strength 70% Kynar 500 fluorocarbon (Poly Vinylidene Di-fluoride - PVF₂) coating over an epoxy primer of .2 to .3 mil on the finish side with primer and a wash coat on the reverse side.

B. Colourclad – For darker colours, 20 microns of Poly Vinylidene Di-fluoride (PVF₂) on each side over a minimum 5 microns of Epoxy Primer with a waxed surface finish OR

C. Colourclad – For lighter colours, 20 microns of Silicone Polyester on each side over a minimum 5 microns of Epoxy Primer with a waxed surface finish.

Aluminium – 1.0mm (18G) aluminium alloy 3105-414 with baked on PermaColour 2000 Kynar paint finish.

Permaclad – 0.6mm (24G) alloy coated steel conforming to ASTM – 792-93 Grade 345A (50A). The alloy of aluminium and zinc is bonded to the steel base by a continuous hot dipping process, offering greater corrosion resistance, high temperature oxidation resistance and heat reflectivity.