

SuperLok®

Standing Seam Roof System

The SuperLok® standing seam roof system blends the aesthetics of an architectural panel with the strength of a structural panel. This panel has earned uplift ratings that are the highest in the industry for standing seam roofs, assuring the reliability of performance. This panel is FM Global approved to satisfy stringent code requirements and is ICBO approved.

Gauge

24 gauge (standard)
22 gauge

Length

The maximum recommended length is 50'

Dimensions

16" wide and 2" high

Finish

Galvalume Plus®
Signature® 200 Colors
Signature® 300 Colors

Limitations

SuperLok® must be installed on roof slopes of ½:12 or greater.

Usage

SuperLok® is a field seamed panel that combines a slim rib with exceptional uplift resistance. This panel has been designed to withstand the most rigorous conditions. This system was designed to be installed over open framing, 5/8" plywood, or a composite roof assembly.

Fasteners

Concealed fastening system. A choice of concealed fastening clips are available for this panel system including UL rated clips. These clips hold the panels firmly in place without unsightly exposed fasteners. Each clip system offers the ability to accommodate thermal movement.

Attributes

1. For installation over purlins or bar joists
2. Factory notched for end laps
3. Clip allows 2" panel movement
4. Sealant is factory applied
5. Optional limited weathertightness warranty is available
6. UL® 90 qualified for wind uplift ratings under four types of construction, including open framing, composite and solid deck methods
7. Metal closures
8. Machine seamed
9. Factory Mutual approved code requirements and is ICBO approved
10. Concealed fastener
11. South Florida approved

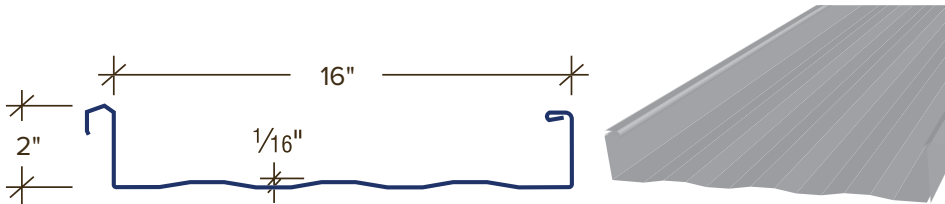
Advantages

1. Maximizes flexibility
2. May be installed in both directions or simultaneously
3. Provides for expansion and contraction
4. Reduces labor, enhances system life
5. Customer assurance of quality and long life
6. May qualify for reduced insurance rates
7. Longer life
8. Meets stringent code requirements such as Factory Mutual
9. This panel is Factory Mutual approved to satisfy stringent code requirements and is ICBO approved
10. These clips hold the panels firmly in place without unsightly exposed fasteners; Each clip system offers the ability to accommodate thermal movement
11. This panel meets or exceeds the design requirements for application in South Florida

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SuperLok® - Measurements



Super-Lok® - Section Properties

Panel Gauge	Fy (KSI)	Weight (PSF)	NEGATIVE BENDING			POSTIVE BENDING		
			Ixe (IN. 4/FT.)	Sxe (IN. 3/FT.)	Maxo (KIP-IN.)	Ixe (IN. 4/FT.)	Sxe (IN. 3/FT.)	Maxo (KIP-IN.)
24	50	1.38	0.0574	0.0538	1.6096	0.1324	0.0779	2.3301
22	50	1.72	0.0801	0.0779	2.3324	0.1787	0.1061	3.1772

Allowable Uniform Loads In Pounds Per Square Foot

24 Gauge (Fy = 50 Ksi)

Span Type	Load Type	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
Single	Live	162.0	135.0	115.7	97.1	76.7	62.1	51.4
2-Span	Live	162.0	119.2	87.6	67.1	53.0	42.9	35.5
3-Span	Live	162.0	135.0	109.5	83.8	66.2	53.7	44.3
4-Span	Live	162.0	135.0	102.2	78.3	61.8	50.1	41.4

22 Gauge (Fy = 50 Ksi)

Span Type	Load Type	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
Single	Live	233.4	194.5	166.7	132.4	104.6	84.7	70.0
2-Span	Live	233.4	172.8	126.9	97.2	76.8	62.2	51.4
3-Span	Live	233.4	194.5	158.7	121.5	96.0	77.7	64.3
4-Span	Live	233.4	194.5	148.1	113.4	89.6	72.6	60.0

The engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This specification contains the design criteria for cold-formed steel components. Along with the specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

Effective November 3, 2004. Subject to change without notice. SuperLok® is a registered trademark of the NCI Group. Galvalume Plus® is a registered trademark of BIEC International, Inc. Signature® is a registered trademark of the NCI Group.

Properties Notes:

1. All calculations for the properties of SuperLok® panels are calculated in accordance with the 2001 edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.
2. **Ixe** is for deflection determination.
3. **Sxe** is for bending.
4. **Maxo** is allowable bending moment.
5. All values are for one foot of panel width.

Allowable Uniform Loads Notes:

1. Allowable loads are based on uniform span lengths and Fy = 50 ksi.
2. **Live Load** is limited by bending, shear, combined shear and bending.
3. Allowable loads consider a maximum deflection ratio of L/180.
4. The weight of the panel has not been deducted from the allowable loads.
5. **The allowable uniform loads are not for use when designing panels to resist wind uplift.**
6. Please contact manufacturer or manufacturer's website for most current allowable wind uplift loads.
7. The use of any field seaming machine other than that provided by the manufacturer may damage the panels, void all warranties and will void all data.

NOTE: Oil-canning is not considered grounds for rejection of any panel system. Oil-canning can occur in any panel with wide flat sections. Heavier gauge, embossing, striations, flatter sub-frame systems and support from a solid sub-deck can all help to minimize oil-canning.