



Table of Contents

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3. Standing Seam Panels

Standing Seam Panels

<i>Table of Contents.....</i>	<i>PS1-2</i>
<i>Double-Lok.....</i>	<i>PS3-8</i>
<i>Ultra-Dek.....</i>	<i>PS9-14</i>
<i>BattenLok HS.....</i>	<i>PS15-18</i>
<i>Curved BattenLok HS</i>	<i>PS19-20</i>
<i>SuperLok.....</i>	<i>PS21-24</i>
<i>LokSeam</i>	<i>PS25-30</i>
<i>Slimline</i>	<i>PS31-32</i>
<i>Craftsman Series</i>	<i>PS33-34</i>



Table of Contents

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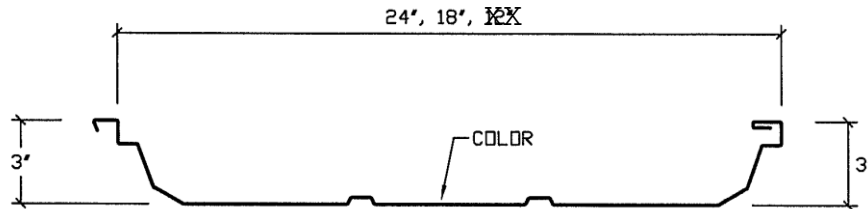
3. Standing Seam Panels

Standing Seam Panels

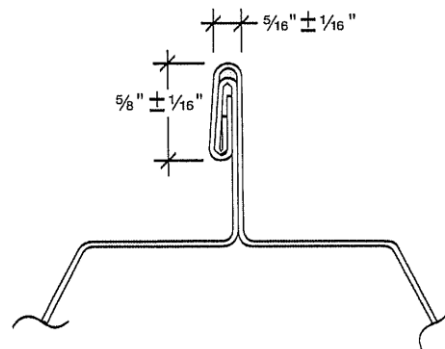
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Product Information

Double-Lok Panel



Double-Lok roof panel is a mechanically field seamed, trapezoidal leg SSR system. It is ideal for commercial and industrial applications. This panel provides a high degree of weathertightness and has been tested by independent laboratories in accordance with ASTM E283 and E331 (for air infiltration, water penetration and wind uplift). Several UL Construction numbers and Factory Mutual ratings are available on this product.



CROSS SECTION OF FINISHED SEAM

Additional Features

- Coverage widths:
 - 24" with minor ribs - pre-punched holes standard
 - 18" with minor ribs - pre-punched holes standard
 - 12" with no minor ribs - pre-punching not available **DISCONTINUED**
- Minimum roof slope - 1/4:12
- Panel substrate - Galvalume
- Gauge - 24 standard - 22 also available in limited colors and min. qty. requirements.
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Factory applied mastic placed inside the female leg.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.
- Mechanical seamer rental provided by Foremost.

Product Information

Double-Lok Panel

UNDERWRITERS LABORATORIES APPROVAL

Construction Number	Panel Width (In.)	Gauge	Clip Type	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
165	24	24 min.	Sliding	Open Framing	Class 4	Class A	Class 90
180C	24	24 min.	Sliding	Composite System	Class 4	Class A	Class 90
287	24	24 min.	Sliding	Open Framing	Class 4	Class A	Class 90
308A	24	24 min.	Sliding	Composite System	Class 4	Class A	Class 90
450	24	24 min.	Sliding	Open Framing	Class 4	Class A	Class 90
538	24	24 min.	Sliding	Open Framing	Class 4	Class A	Class 90
539	24	24 min.	Sliding	Composite System	Class 4	Class A	Class 90
540	24	24 min.	Sliding	Composite System	Class 4	Class A	Class 90

NOTES:

1. Tests procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results when installed over a Class A sub structure.
3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263.
4. The panel system is listed under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P717, P720, P722, P726, P731, P734, P736, P801, P803, P814, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
5. Construction Number 450 includes the use of a domed skylight.

FACTORY MUTUAL APPROVAL

Double-Lok®

Panel Width	Gauge	Clip Type	Clip Spacing	Substrate	# of Fasteners per Clip	Wind Clamp per Clip	Hail Damage Rating	ASTM E108 Fire Rating	FM Windstorm Rating
24	24	2" Slidling	5'-0"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-60
24	24	2" Slidling	5'-0"	Open Framing	2	1	Class 1-SH	Class A	Class 1-75
24	22	2" Slidling	5'-0"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-75
24	24	2" Slidling	5'-0"	Open Framing	2	1	Class 1-SH	Class A	Class 1-90
24	22	2" Slidling	4'-0"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-90
18	24	2" Slidling	5'-0"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-90
24	22	2" Slidling	4'-0"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-105
24	22	2" Slidling	3'-6"	Open Framing	2	n/a	Class 1-SH	Class A	Class 1-105
24	22	4" Slidling	5'-0"	Open Framing	3	1	Class 1-SH	Class A	Class 1-120
18	24	2" Slidling	5'-0"	Open Framing	3	1	Class 1-SH	Class A	Class 1-135
24	22	4" Slidling	5'-0"	Open Framing	3	2	Class 1-SH	Class A	Class 1-150

**Floating or Articulating

NOTES:

1. Tests procedures are in accordance with Factory Mutual Research Corporation (FMRC) Standard 4471.
2. A detailed test report is available for each product above. The panels must be installed in a specific manner to achieve the published results. Contact the manufacturer for more information.

ICBO APPROVAL

The ICBO Evaluation Service, Inc. has approved the Ultra-Dek roofing system details, engineering, calculations, computer printouts and product data. This information has been found to comply with the 1997 UBC Code and is listed in evaluation report ER-5409. A copy of this report is available upon request.

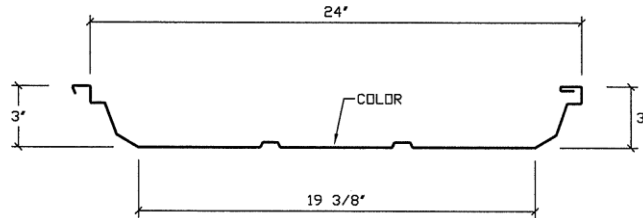
FLORIDA BUILDING CODE PRODUCT APPROVAL

Double-Lok Roofing System details and engineering load tables have been examined by the State of Florida and comply with the 2010 Florida Building Code Approval Number (FL#11819.2).

Product Information

Double-Lok Panel

DOUBLE-LOK 24" COVERAGE



SECTION PROPERTIES								
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE 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	1.23	0.1507	0.0989	2.9619	0.3224	0.1308	3.9166
22	50	1.56	0.2059	0.1394	4.1741	0.4205	0.1709	5.1171

NOTES:

1. All calculations for the properties of **Double-Lok®** panels are calculated in accordance with the 2012 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 the one foot of panel width.

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	204.0	170.0	145.7	127.5	113.3	102.0	86.3
2-SPAN	LIVE	204.0	170.0	145.7	123.4	97.5	79.0	65.3
3-SPAN	LIVE	204.0	170.0	145.7	127.5	113.3	98.7	81.6
4-SPAN	LIVE	204.0	170.0	145.7	127.5	113.3	92.2	76.2

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	296.9	247.5	212.1	185.6	165.0	136.5	112.8
2-SPAN	LIVE	296.9	247.5	212.1	173.9	137.4	111.3	92.0
3-SPAN	LIVE	296.9	247.5	212.1	185.6	165.0	139.1	115.0
4-SPAN	LIVE	296.9	247.5	212.1	185.6	160.4	129.9	107.4

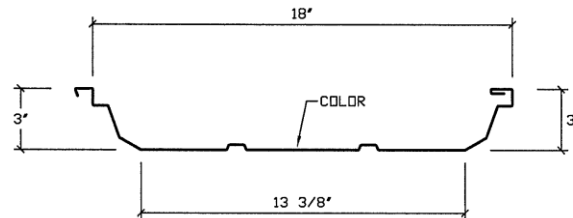
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Streight calculations based on the 2012 AISI Standard *North American Specification for the Design of Cold-Formed Steel Structural Members*.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. POSITIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under streight-level loads.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

Double-Lok Panel

DOUBLE-LOK 18" COVERAGE



SECTION PROPERTIES								
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE BENDING		
			I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)	I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)
24	50	1.32	0.1994	0.1313	3.9306	0.3814	0.1651	4.9449
22	50	1.66	0.2718	0.1846	5.5274	0.4968	0.2154	6.4494

NOTES:

1. All calculations for the properties of **Double-Lok®** panels are calculated in accordance with the 2012 Edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

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	272.0	226.7	194.3	170.0	151.1	131.9	109.0
2-SPAN	LIVE	272.0	226.7	194.3	163.8	129.4	104.8	86.6
3-SPAN	LIVE	272.0	226.7	194.3	170.0	151.1	131.0	108.3
4-SPAN	LIVE	272.0	226.7	194.3	170.0	151.0	122.3	101.1

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	395.9	329.9	282.8	247.5	212.3	172.0	142.1
2-SPAN	LIVE	395.9	329.9	282.8	230.3	182.0	147.4	121.8
3-SPAN	LIVE	395.9	329.9	282.8	247.5	220.0	184.2	152.3
4-SPAN	LIVE	395.9	329.9	282.8	247.5	212.4	172.0	142.2

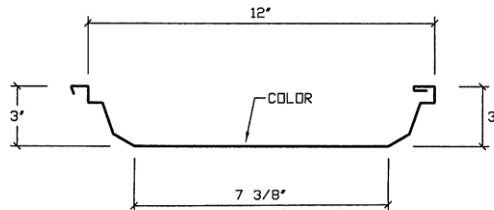
NOTES:

1. **THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.**
2. Strength calculations based on the 2012 AISI Standard *North American Specification for the Design of Cold-Formed Steel Structural Members*.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

Double-Lok Panel

DOUBLE-LOK 12" COVERAGE



SECTION PROPERTIES								
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE 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	1.48	0.2590	0.1612	4.8271	0.4754	0.2292	6.8642
22	50	1.86	0.3594	0.2317	6.9371	0.6167	0.2981	8.9264

NOTES:

1. All calculations for the properties of **Double-Lok®** panels are calculated in accordance with the 2012 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 the one foot of panel width.

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	408.0	340.0	291.4	255.0	226.0	183.0	151.3
2-SPAN	LIVE	408.0	340.0	262.7	201.1	158.9	128.7	106.4
3-SPAN	LIVE	408.0	340.0	291.4	251.4	198.6	160.9	133.0
4-SPAN	LIVE	408.0	340.0	291.4	234.7	185.5	150.2	124.2

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	593.9	494.9	424.2	371.9	293.9	238.0	196.7
2-SPAN	LIVE	593.9	494.9	377.5	289.0	228.4	185.0	152.9
3-SPAN	LIVE	593.9	494.9	424.2	361.3	285.5	231.2	191.1
4-SPAN	LIVE	593.9	494.9	424.2	337.4	266.6	215.9	178.4

NOTES:

1. **THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.**
2. Strength calculations based on the 2012 AISI Standard *North American Specification for the Design of Cold-Formed Steel Structural Members*.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

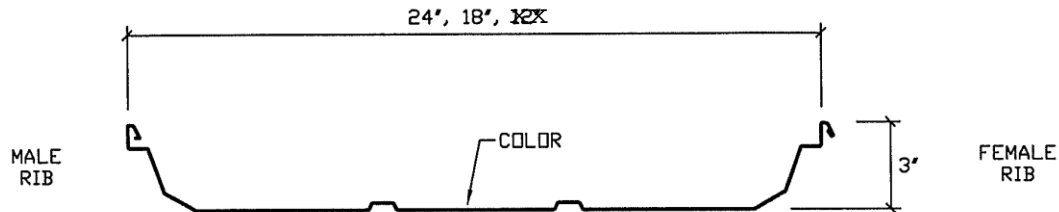


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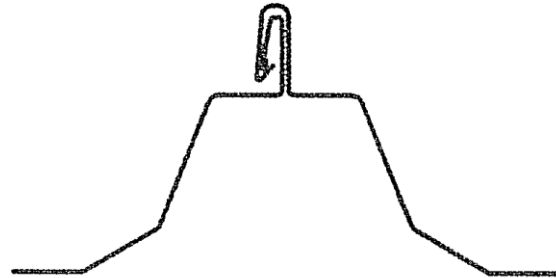
Product Information

Double-Lok Panel

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Product Information**Ultra-Dek Panel**

Ultra-Dek roof panel is snap-together, trapezoidal leg SSR system. Additional machine seaming is not required. Ultra-Dek is ideal for commercial and industrial applications. This roof panel may be installed in accordance with several different UL construction numbers, all of which meet the requirements of the Underwriter's Laboratories standard UL 580 Class 90 for uplift resistance.

**CROSS SECTION OF SIDE SEAM****Additional Features**

- Coverage widths:
 - 24" with minor ribs - pre-punched holes standard
 - 18" with minor ribs - pre-punched holes standard
 - 12" with no minor ribs - pre-punching not available **DISCONTINUED**
- Minimum roof slope - 1/4:12
- Panel substrate - Galvalume
- Gauge - 24 standard - 22 also available in limited colors and min. qty. requirements.
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Factory applied mastic placed inside the female leg.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.

Product Information**Ultra-Dek Panel****UNDERWRITERS LABORATORIES APPROVAL**

Construction Number	Panel Width (In.)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
165	24	24 min.	B	5'-0"	Open Framing	Class 4	Class A	Class 90
180B	24	24 min.	A	5'-0"	Composite	Class 4	Class A	Class 90
205	24	24 min.	A	5'-0"	Open Framing	Class 4	Class A	Class 90
205A	24	24 min.	B	5'-0"	Open Framing	Class 4	Class A	Class 90
286	24	26 min.	A	5'-0"	Plywood	Class 4	Class A	Class 90
308B	24	24 min.	A	5'-0"	Composite	Class 4	Class A	Class 90
534	24	24 min.	B	5'-0¼"	Open Framing	Class 4	Class A	Class 90
535	24	24 min.	A	5'-0¼"	Open Framing	Class 4	Class A	Class 90
536	24	24 min.	B	5'-0"	Composite	Class 4	Class A	Class 90
537	24	24 min.	B	5'-0¼"	Composite	Class 4	Class A	Class 90
541	24	26 min.	B	5'-0"	Plywood	Class 4	Class A	Class 90

Clip Type: **A** (Fixed, Sliding); **B** (Sliding); **C** (Utility).

NOTES:

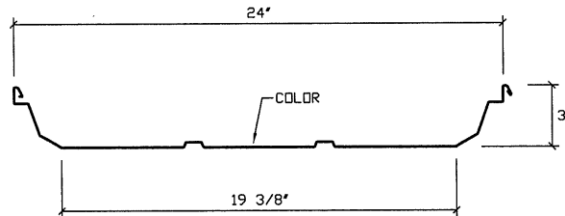
1. Wind uplift test procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory or at <http://www.ul.com>. The panels must be installed in a certain manner to achieve the published results.
3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263.
4. The panel system is listed under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P717, P720, P722, P726, P731, P734, P736, P801, P803, P814, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
5. **Ultra-Dek®** panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance."

FLORIDA BUILDING CODE PRODUCT APPROVAL

Ultra-Dek® Roofing System details and engineering load tables have been examined by the State of Florida and comply with the 2010 Florida Building Code Product Approval Number (FL#11819.5).

Product Information

Ultra-Dek Panel



ULTRA-DEK 24" COVERAGE

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
26	50	1.02	0.1025	0.0694	2.0764	0.2202	0.0901	2.6987
24	50	1.23	0.1355	0.0951	2.8477	0.2803	0.1156	3.4612
22	50	1.56	0.1837	0.1332	3.9877	0.3640	0.1504	4.5020

NOTES:

1. All calculations for the properties of Ultra-Dek panels are calculated in accordance with the 2012 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 IN POUNDS PER SQUARE FOOT

26 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	146.9	122.4	104.9	91.8	81.6	72.0	59.5
2-SPAN	LIVE	146.9	122.4	104.9	86.5	68.4	55.4	45.8
3-SPAN	LIVE	146.9	122.4	104.9	91.8	81.6	69.2	57.2
4-SPAN	LIVE	146.9	122.4	104.9	91.8	79.8	64.6	53.4

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	204.0	170.0	145.7	127.5	113.3	92.3	76.3
2-SPAN	LIVE	204.0	170.0	145.7	118.7	93.8	75.9	62.8
3-SPAN	LIVE	204.0	170.0	145.7	127.5	113.3	94.9	78.4
4-SPAN	LIVE	204.0	170.0	145.7	127.5	109.4	88.6	73.2

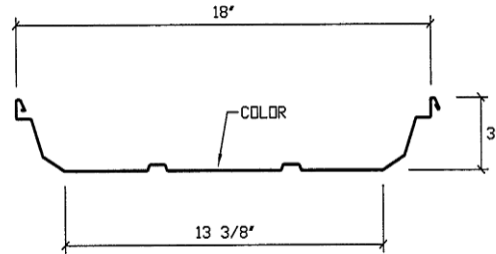
22 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
SINGLE	LIVE	296.9	247.5	212.1	185.6	148.2	120.1	99.2
2-SPAN	LIVE	296.9	247.5	212.1	166.2	131.3	106.3	87.9
3-SPAN	LIVE	296.9	247.5	212.1	185.6	164.1	132.9	109.9
4-SPAN	LIVE	296.9	247.5	212.1	185.6	153.2	124.1	102.6

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

Ultra-Dek Panel



ULTRA-DEK 18" COVERAGE

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
26	50	1.09	0.1366	0.0929	2.7823	0.2686	0.1175	3.5185
24	50	1.32	0.1804	0.1273	3.8115	0.3372	0.1480	4.4295
22	50	1.66	0.2444	0.1780	5.3279	0.4365	0.1918	5.7424

NOTES:

1. All calculations for the properties of Ultra-Dek panels are calculated in accordance with the 2012 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 IN POUNDS PER SQUARE FOOT

26 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	195.8	163.2	139.9	122.4	108.8	93.8	77.5
2-SPAN	LIVE	195.8	163.2	139.9	115.9	91.6	74.2	61.3
3-SPAN	LIVE	195.8	163.2	139.9	122.4	108.8	92.7	76.6
4-SPAN	LIVE	195.8	163.2	139.9	122.4	106.9	86.6	71.6

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	272.0	226.7	194.3	170.0	145.8	118.1	97.6
2-SPAN	LIVE	272.0	226.7	194.3	158.8	125.5	101.6	84.0
3-SPAN	LIVE	272.0	226.7	194.3	170.0	156.9	127.1	105.0
4-SPAN	LIVE	272.0	226.7	194.3	170.0	146.5	118.6	98.0

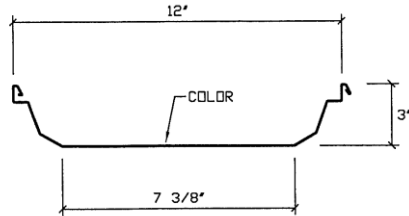
22 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
SINGLE	LIVE	395.9	329.9	282.8	239.3	189.1	153.1	126.6
2-SPAN	LIVE	395.9	329.9	282.8	222.0	175.4	142.1	117.4
3-SPAN	LIVE	395.9	329.9	282.8	247.5	219.3	177.6	146.8
4-SPAN	LIVE	395.9	329.9	282.8	247.5	204.7	165.8	137.0

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

Ultra-Dek Panel



ULTRA-DEK 12" COVERAGE

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	F _y	WEIGHT	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
26	50	1.23	0.1742	0.1109	3.3213	0.3409	0.1651	4.9427
24	50	1.48	0.2331	0.1540	4.6122	0.4262	0.2073	6.2066
22	50	1.86	0.3257	0.2237	6.6989	0.5512	0.2686	8.0412

NOTES:

1. All calculations for the properties of Ultra-Dek panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

26 Gauge (F _y = 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	293.8	244.8	209.8	183.6	162.7	131.8	108.9
2-SPAN	LIVE	293.8	244.8	180.8	138.4	109.3	88.6	73.2
3-SPAN	LIVE	293.8	244.8	209.8	173.0	136.7	110.7	91.5
4-SPAN	LIVE	293.8	244.8	209.8	161.5	127.6	103.4	85.4

24 Gauge (F _y = 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	408.0	340.0	291.4	255.0	204.3	165.5	136.8
2-SPAN	LIVE	408.0	340.0	251.0	192.2	151.8	123.0	101.6
3-SPAN	LIVE	408.0	340.0	291.4	240.2	189.8	153.7	127.1
4-SPAN	LIVE	408.0	340.0	291.4	224.3	177.2	143.5	118.6

22 Gauge (F _y = 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	593.9	494.7	424.2	335.1	264.7	214.4	177.2
2-SPAN	LIVE	593.9	488.3	364.6	279.1	220.5	178.6	147.6
3-SPAN	LIVE	593.9	494.7	424.2	348.9	275.7	223.3	184.5
4-SPAN	LIVE	593.9	494.7	422.6	325.8	257.4	208.5	172.3

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MRCI for the most current data.



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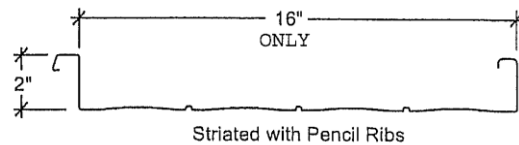
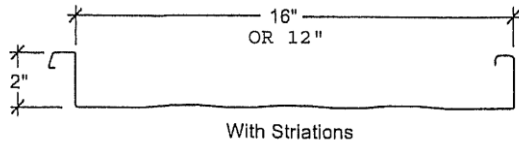
Product Information

Ultra-Dek Panel

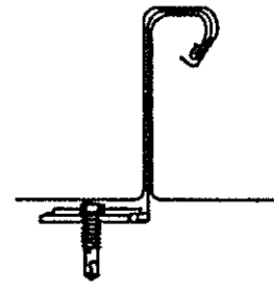
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Product Information

BattenLok HS Panel



BattenLok HS is a mechanically-field seamed, high strength structural standing seam roof system. BattenLok HS that can be installed directly over purlins or bar joists (a solid substrate is not required) and is ideal for architectural or commercial applications. This panel provides a high degree of weathertightness and has been tested by independent laboratories in accordance with ASTM E 1680-95 air infiltration and ASTM E 1646-95 water penetration. This roof system has several different UL 90 construction numbers including Class 90 UL-580 Up-Lift resistance and a Class 4 rating under UL-2218 Hail Impact Resistance.



CROSS SECTION OF FINISHED SEAM

Additional Features

- Coverage widths: 16" or 12"
- Minimum roof slope - 1/2:12
- Panel substrate - Galvalume (standard)
- Gauge - 24 standard - 22 also available in limited colors and min. qty. requirements.
- Finishes - Smooth Striated (standard), Embossed Striated and Smooth or Embossed Striated with Pencil Ribs - 16" wide only.
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Factory applied mastic placed inside the female leg.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.
- Mechanical seamer rental provided by Foremost.

Product Information**BattenLok HS Panel****UNDERWRITERS LABORATORIES APPROVAL**

Construction Number	Panel Width (In.)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
90	16"	24 min.	*	5'-0 1/8"	Open Framing	Class 4	Class A	Class 90
176	16"	24 min.	N/A	5'-0 1/4"	Open Framing	Class 4	Class A	Class 90
180	16"	24 min.	**	5'-0 1/4"	Open Framing	Class 4	Class A	Class 90
238B	16"	24 min.	**	2'-6"	Composite System	Class 4	Class A	Class 90
437	16"	24 min.	**	5'-0"	Plywood	Class 4	Class A	Class 90
449	16"	24 min.	*	5'-0"	Open Framing	Class 4	Class A	Class 90
451	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
452	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
487	16"	24 min.	**	4'-0"	Composite System	Class 4	Class A	Class 90

* Fixed or Floating (high or low)

** Fixed or Floating (high, low, or utility)

NOTES:

1. Tests procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263 when installed over a non-combustible substrate. A Class C fire rating can be obtained over a combustible deck.
4. The panel system qualifies under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P717, P720, P722, P726, P731, P734, P736, P801, P803, P814, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
5. **BattenLok® HS** panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

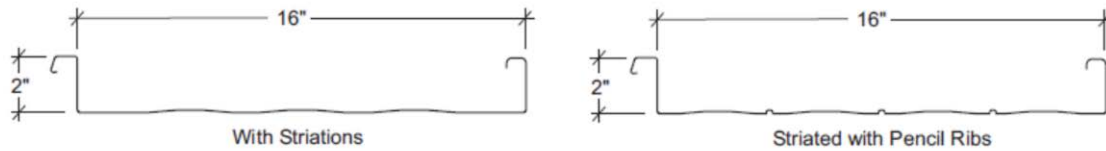
Caution

Diaphragm capabilities and purlin stability are not provided by manufactures BattenLok HS roof system. Therefore, other bracing may be required to conform to A.I.S.C. or A.I.S.I. specifications.

Product Information

BattenLok HS Panel

BATTENLOK HS 16" COVERAGE



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	I _{xe} (IN. ⁴ /FT.)	S _{xe} (IN. ³ /FT.)	Maxo (KIP-IN.)	I _{xe} (IN. ⁴ /FT.)	S _{xe} (IN. ³ /FT.)	Maxo (KIP-IN.)
24	50	1.29	0.0634	0.0572	1.7137	0.1504	0.0902	2.7015
22	50	1.65	0.0884	0.0824	2.4671	0.2003	0.1212	3.6303

NOTES:

1. All calculations for the properties of **BattenLok® HS** panels are calculated in accordance with the 2012 edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

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	112.6	88.9	72.0	59.5
2-SPAN	LIVE	162.0	126.9	93.3	71.4	56.4	45.7	37.8
3-SPAN	LIVE	162.0	135.0	115.7	89.3	70.5	57.1	47.2
4-SPAN	LIVE	162.0	135.0	108.8	83.3	65.8	53.3	44.1

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	151.3	119.5	96.8	80.0
2-SPAN	LIVE	233.4	182.7	134.3	102.8	81.2	65.8	54.4
3-SPAN	LIVE	233.4	194.5	166.7	128.5	101.5	82.2	68.0
4-SPAN	LIVE	233.4	194.5	156.7	120.0	94.8	76.8	63.5

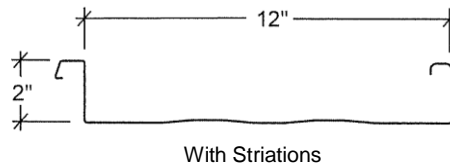
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than tha provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

BattenLok HS Panel

BATTENLOK HS 12" COVERAGE



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	F _y (KSI)	WEIGHT (PSF)	I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)	I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)
24	50	1.41	0.0836	0.0749	2.2421	0.1851	0.1165	3.4864
22	50	1.81	0.1157	0.1077	3.2247	0.2430	0.1536	4.6008

NOTES:

1. All calculations for the properties of **BattenLok® HS** panels are calculated in accordance with the 2012 edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

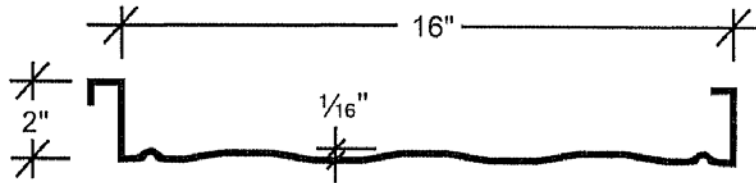
ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (F _y = 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	216.0	180.0	154.3	145.3	114.8	93.0	76.8
2-SPAN	LIVE	216.0	166.1	122.0	93.4	73.8	59.8	49.4
3-SPAN	LIVE	216.0	180.0	152.5	116.8	92.3	74.7	61.8
4-SPAN	LIVE	216.0	180.0	142.4	109.0	86.2	69.8	57.7

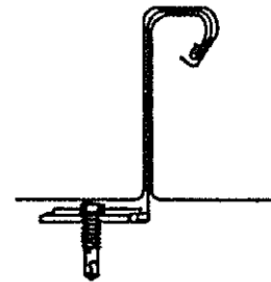
22 Gauge (F _y = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
SINGLE	LIVE	311.2	259.5	237.3	191.7	151.5	122.7	101.4
2-SPAN	LIVE	311.2	238.9	175.5	134.4	106.2	86.0	71.1
3-SPAN	LIVE	311.2	259.5	219.4	168.0	132.7	107.5	88.8
4-SPAN	LIVE	311.2	259.5	204.8	156.8	123.9	100.4	82.9

NOTES:

1. **THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.**
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than tha provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information**Curved BattenLok Panel**

Curved BattenLok is a mechanically field seamed SSR which can be curved to a minimum radius of 20'. Curved BattenLok is a structural panel which may be installed over open framing or solid decking. Striations are standard for added aesthetic value. Roofs with chord lengths too large for single panel applications may be sheeted with multiple panels.



CROSS SECTION OF FINISHED SEAM

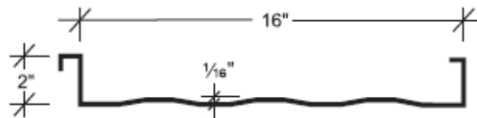
Additional Features

- Coverage widths: 16" or 12"
- Minimum roof radius – 20'
- Panel substrate - Galvalume (standard)
- Gauge - 24 standard - 22 also available in limited colors and min. qty. requirements.
- Finishes - Smooth Striated (standard), Embossed Striated and Smooth or Embossed Striated with Pencil Ribs
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Panels do not have factory applied mastic. 1/2" x 3/32" tape mastic must be field applied to the male leg of the panels during installation.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.
- Mechanical seamer rental provided by Foremost.

Product Information

Curved BattenLok Panel

CURVED BATTENLOK 16" COVERAGE



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	F _y	WEIGHT	l _{xe}	S _{xe}	Maxo	l _{xe}	S _{xe}	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.29	0.0551	0.0545	1.633	0.1072	0.0618	1.8524
22	50	1.65	0.0766	0.0804	2.4066	0.1517	0.0892	2.6712

NOTES:

1. All calculations for the properties of Double-Lok® panels are calculated in accordance with the 2012 Edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. l_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

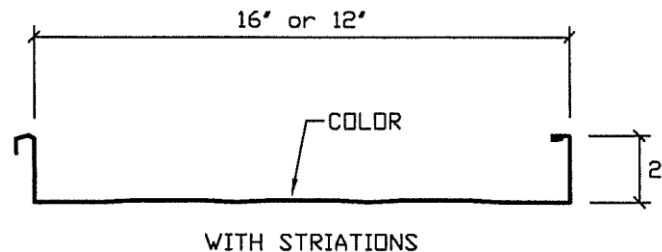
ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE

24 Gauge (F _y = 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	100.8	77.2	61.0	49.4	40.8
2-SPAN	LIVE	162.0	121.0	88.9	68.0	53.8	43.5	36.0
3-SPAN	LIVE	162.0	135.0	111.1	85.1	67.2	54.4	45.0
4-SPAN	LIVE	162.0	135.0	103.7	79.4	62.7	50.8	42.0

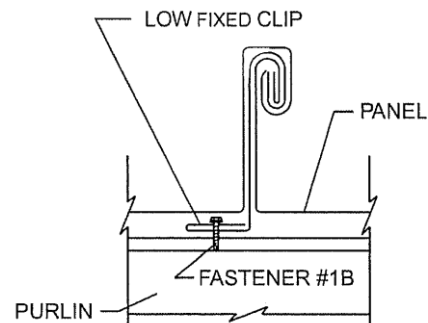
22 Gauge (F _y = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
SINGLE	LIVE	233.4	194.5	145.4	111.3	87.9	71.2	58.9
2-SPAN	LIVE	233.4	178.3	131.0	100.3	79.2	64.2	53.0
3-SPAN	LIVE	233.4	194.5	163.7	125.3	99.0	80.2	66.3
4-SPAN	LIVE	233.4	194.5	152.9	117.0	92.5	74.9	61.9

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plate other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information**SuperLok Panel**

SuperLok roof panel is a mechanically field seamed, vertical leg SSR system. SuperLok is a structural panel that can be installed directly over purlins or bar joists. It does not require a solid substructure for support. The SuperLok roof system has several different UL90 construction numbers.

**CROSS SECTION OF FINISHED SEAM****Additional Features**

- Coverage widths: 16" or 12"
- Minimum roof slope - 1/2:12
- Panel substrate - Galvalume
- Gauge - 24 standard - 22 also available in limited colors and min. qty. requirements.
- Finishes: Smooth striated (standard) or embossed striated
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Factory applied mastic placed inside the female leg.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.
- Mechanical seamer rental provided by Foremost.

Product Information

SuperLok Panel

UNDERWRITERS LABORATORIES APPROVAL

Construction Number	Panel Width (In.)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
90	16"	24 min.	*	5'-0 1/16"	Open Framing	Class 4	Class A	Class 90
176	16"	24 min.	N/A	5'-0 1/4"	Open Framing	Class 4	Class A	Class 90
180	16"	24 min.	**	5'-0 1/4"	Open Framing	Class 4	Class A	Class 90
238B	16"	24 min.	**	2'-6"	Composite System	Class 4	Class A	Class 90
437	16"	24 min.	**	5'-0"	Plywood	Class 4	Class A	Class 90
449	16"	24 min.	*	5'-0"	Open Framing	Class 4	Class A	Class 90
451	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
452	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
487	16"	24 min.	**	4'-0"	Composite System	Class 4	Class A	Class 90

* Fixed or Floating (high or low)

** Fixed or Floating (high, low, or utility)

NOTES:

1. Tests procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263 when installed over a non-combustible substrate. A Class C fire rating can be obtained over a combustible deck.
4. The panel system qualifies under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P720, P722, P726, P731, P734, P801, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
5. **SuperLok®** panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

FACTORY MUTUAL APPROVAL

SuperLok®

Panel Width	Gauge	Clip Type	Clip Spacing	Hail Damage Rating	ASTM E108 Fire Rating	FM Windstorm Rating
16	24	Floating	4'-0"	Class 1-SH	Class A	Class 1-90
16	22	Floating	5'-0"	Class 1-SH	Class A	Class 1-105
16	22	Floating	4'-0"	Class 1-SH	Class A	Class 1-135

NOTES:

1. Tests procedures are in accordance with Factory Mutual Research Corporation (FMRC) Standard 4471.
2. A detailed test report is available for each product above. The panels must be installed in a specific manner to achieve the published results. Contact MBCI for more information.

SuperLok® is a registered trademark of NCI Building Systems, L.P.
Galvalume® is a registered trademark of BIEC International, Inc.
Vise-Grip® is a registered trademark of American Tool Companies, Inc.

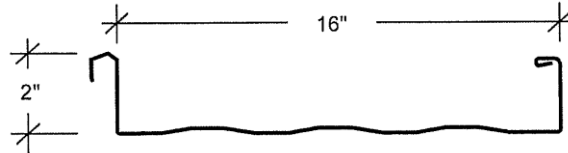
FLORIDA BUILDING CODE PRODUCT APPROVAL

Double-Lok® Roofing System details and engineering load tables have been examined by the State of Florida and comply with the 2010 Florida Building Code Product Approval Number (FL#11819.4).

Product Information

SuperLok Panel

SUPERLOK 16" COVERAGE



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	lxe	Sxe	Maxo	lxe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.38	0.0574	0.0538	1.6096	0.1324	0.0779	2.3324
22	50	1.72	0.0794	0.0776	2.325	0.1779	0.1057	3.1654

NOTES:

1. All calculations for the properties of SuperLok panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. lxe 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 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	97.2	76.8	62.2	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	131.9	104.2	84.4	69.8
2-SPAN	LIVE	233.4	172.2	126.5	96.9	76.5	62.0	51.2
3-SPAN	LIVE	233.4	194.5	158.2	121.1	95.7	77.5	64.0
4-SPAN	LIVE	233.4	194.5	147.7	113.1	89.3	72.4	59.8

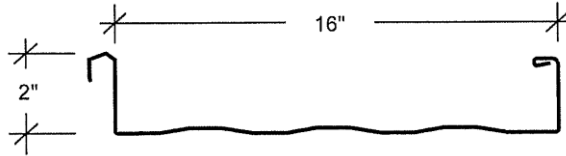
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

SuperLok Panel

SUPERLOK 12" COVERAGE



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.47	0.0756	0.0711	2.1307	0.1667	0.1025	3.0693
22	50	1.83	0.1053	0.1027	3.0751	0.2231	0.1387	4.1551

NOTES:

1. All calculations for the properties of SuperLok panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

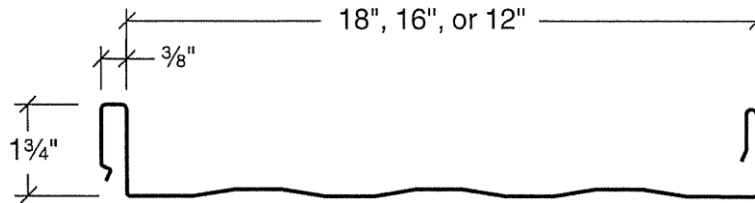
ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

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	216.0	180.0	154.3	127.9	101.0	81.8	67.6
2-SPAN	LIVE	216.0	157.8	116.0	88.8	70.1	56.8	47.0
3-SPAN	LIVE	216.0	180.0	144.9	111.0	87.7	71.0	58.7
4-SPAN	LIVE	216.0	180.0	135.3	103.6	81.9	66.3	54.8

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	313.0	260.8	223.6	173.1	136.8	110.8	91.6
2-SPAN	LIVE	313.0	227.8	167.4	128.1	101.2	82.0	67.8
3-SPAN	LIVE	313.0	260.8	209.2	160.2	126.5	102.5	84.7
4-SPAN	LIVE	313.0	260.8	195.3	149.5	118.2	95.7	79.1

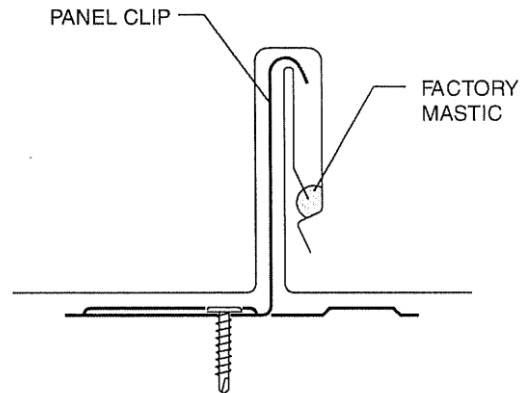
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than tha provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information**LokSeam Panel**

WITH STRIATIONS

LokSeam is a UL-rated structural snap-together SSR system for use on roofs with a minimum slope of 3:12. Panels can be installed over open framing or a solid substrate and are capable of transitioning from roof to fascia with the use of a rib cover.



CROSS SECTION OF INSTALLED SECTION

Additional Features

- Coverage widths: 18", 16" or 12"
- Minimum roof slope - 3:12
- Panel substrate - Galvalume (standard)
- Gauge - 24 standard - 22 and 26 also available in limited colors and min. qty. requirements.
- Finishes - Striated (standard) or Embossed Striated
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR 500
- Factory applied mastic placed inside the female leg.
- Clips and Accessories - A variety of attachment clips and other accessories are available to meet the needs of virtually any construction project.

Product Information

Lokseam Panel

UNDERWRITERS LABORATORIES APPROVAL

Construction Number	Panel Width (in.)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
254	12"	22 min.	UL 90	5'-0"	Open Framing	Class 4	Class A	Class 90
254	12"	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
255	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
303	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
342	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
343	18" max.	24 min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
414	18" max.	24 min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
436	18" max.	24 min.	UL 90	4'-0"	Plywood	Class 4	Class A	Class 90
445	12"	22 min.	UL 90	5'-0"	Open Framing	Class 4	Class A	Class 90
445	12"	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
446	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
448	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
486	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
508A	18" max.	24 min.	UL 90	3'-0"	Composite System	Class 4	Class A	Class 90
543	18" max.	22 min.	UL 90	5'-0"	Open Framing	Class 4	Class A	Class 90
543	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
544	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90

NOTES

1. Wind uplift test procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263.
4. The panel system is listed under following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P717, P720, P722, P726, P731, P734, P801, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
5. LokSeam® panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

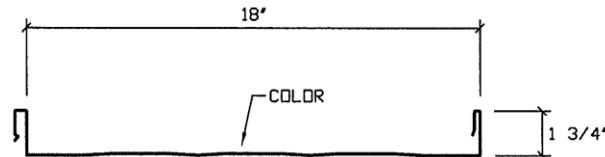
FLORIDA BUILDING CODE PRODUCT APPROVAL

Double-Lok® Roofing System details and engineering load tables have been examined by the State of Florida and comply with the 2010 Florida Building Code Product Approval Number (FL#11819.3).

Product Information

LokSeam Panel

LOKSEAM 18" COVERAGE



WITH STRIATIONS

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	F _y	WEIGHT	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
GAUGE	(KSI)	(PSF)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)
24	50	1.25	0.0321	0.0403	1.2066	0.0682	0.0465	1.3912
22	50	1.60	0.0446	0.0594	1.7795	0.0957	0.0655	1.9620

NOTES

1. All calculations for the properties of LokSeam® panels are calculated in accordance with the 2012 edition of the North American Specification for Design of Cold-Formed Steel Structural Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24- Gauge (F _y = 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 LOAD	148.4	103.1	75.7	58.0	45.8	37.1	30.7
2-SPAN	LIVE LOAD	128.7	89.4	65.7	50.3	39.7	32.2	26.6
3-SPAN	LIVE LOAD	160.9	111.7	82.1	62.8	49.7	40.2	33.2
4-SPAN	LIVE LOAD	150.2	104.3	76.6	58.7	46.4	37.6	31.0

22- Gauge (F _y = 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 LOAD	200.0	145.3	106.8	81.8	64.6	52.3	43.2
2-SPAN	LIVE LOAD	189.8	131.8	96.8	74.1	58.6	47.5	39.2
3-SPAN	LIVE LOAD	200.0	164.8	121.1	92.7	73.2	59.3	49.0
4-SPAN	LIVE LOAD	200.0	153.8	113.0	86.5	68.4	55.4	45.8

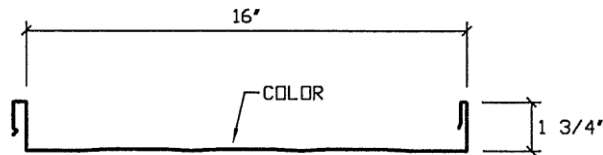
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard North American Specification for the Design of Cold-Formed Steel Structural Members.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

LokSeam Panel

LOKSEAM 16" COVERAGE



WITH STRIATIONS

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	F _y	WEIGHT	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
GAUGE	(KSI)	(PSF)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)
24	50	1.34	0.0361	0.0452	1.3527	0.0758	0.0520	1.5570
22	50	1.71	0.0500	0.0666	1.9938	0.1052	0.0731	2.1921

NOTES

1. All calculations for the properties of LokSeam® panels are calculated in accordance with the 2012 edition of the North American Specification for Design of Cold-Formed Steel Structural Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24- Gauge (F _y = 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 LOAD	166.1	115.3	84.7	64.9	51.3	41.5	34.4
2-SPAN	LIVE LOAD	144.8	100.5	73.9	56.6	44.7	36.2	29.8
3-SPAN	LIVE LOAD	181.0	125.7	92.3	70.7	55.9	45.2	37.4
4-SPAN	LIVE LOAD	169.0	117.3	86.2	66.0	52.1	42.2	34.9

22- Gauge (F _y = 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 LOAD	200.0	162.4	119.3	91.3	72.2	58.5	48.3
2-SPAN	LIVE LOAD	200.0	147.7	108.5	83.1	65.6	53.2	43.9
3-SPAN	LIVE LOAD	200.0	184.6	135.6	103.8	82.0	66.5	54.9
4-SPAN	LIVE LOAD	200.0	172.4	126.6	97.0	76.6	62.1	51.3

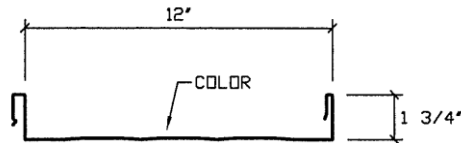
NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard North American Specification for the Design of Cold-Formed Steel Structural Members.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

Product Information

LokSeam Panel

LOKSEAM 12" COVERAGE



WITH STRIATIONS

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	lxe	Sxe	Maxo	lxe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)	(IN. 4/FT)	(IN. 3/FT)	(KIP-IN)
24	50	1.41	0.0472	0.0597	1.7888	0.0953	0.0682	2.0429
22	50	1.81	0.0663	0.0878	2.6292	0.1313	0.0954	2.8577

NOTES

1. All calculations for the properties of LokSeam® panels are calculated in accordance with the 2001 edition of the North American Specification for Design of Cold-Formed Steel Structural Members.
2. lxe 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 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 LOAD	200.0	151.3	111.2	85.1	67.3	54.5	45.0
2-SPAN	LIVE LOAD	190.8	132.5	97.3	74.5	58.9	47.7	39.4
3-SPAN	LIVE LOAD	200.0	165.5	121.7	93.2	73.6	59.6	49.3
4-SPAN	LIVE LOAD	200.0	154.6	113.6	87.0	68.7	55.7	46.0

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 LOAD	200.0	200.0	155.5	119.1	94.1	76.2	63.0
2-SPAN	LIVE LOAD	200.0	194.8	143.1	109.6	86.6	70.1	57.9
3-SPAN	LIVE LOAD	200.0	200.0	178.9	136.9	108.2	87.6	72.4
4-SPAN	LIVE LOAD	200.0	200.0	167.0	127.9	101.0	81.8	67.6

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard North American Specification for the Design of Cold-Formed Steel Structural Members.
3. Allowable loads are applicable for uniform loading and spans without overhangs.
4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates (eave, backup, rake, etc.) other than that provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
7. This material is subject to change without notice. Please contact MBCI for the most current data.

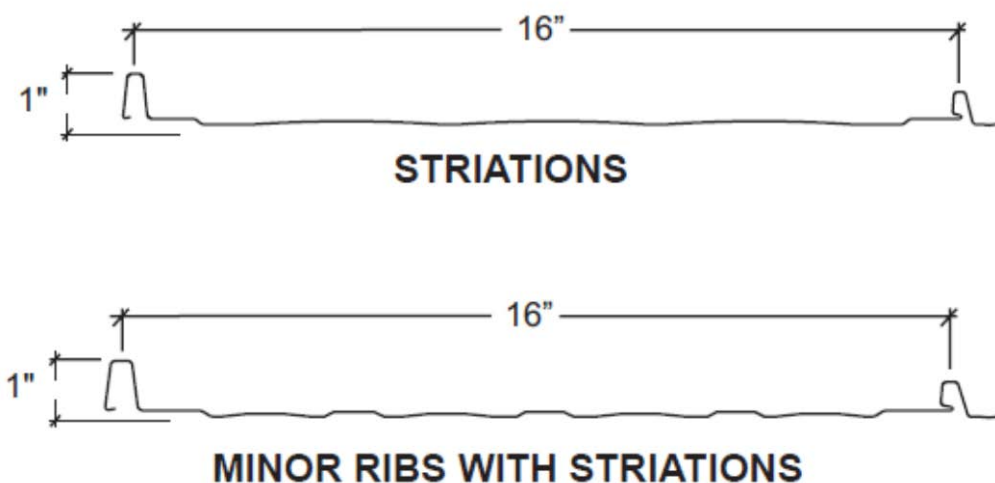


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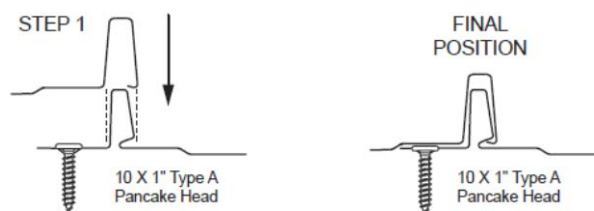
Product Information

LokSeam Panel

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Product Information**Slim Line 16**

Slim Line is a sleek and rich looking, contemporary standing seam, hidden fastener panel system ideal for residential applications. Slim Line is a non-structural, water shedding concealed fastener panel system that can be applied on a variety of projects. They include roofing, siding, mansard, or fascia systems. Slim Line's contemporary design, with economical interlocking ribs and fastening flanges make it ideally suitable for new construction or retro-fit markets on both light commercial and residential projects. For panels longer than 36' please inquire. Panels may not be end lapped.

**PANEL SIDELAP ENGAGEMENT****Additional Features**

- Coverage width – 16"
- Minimum slope - 3:12
- Panel substrate - Galvalume
- Gauge – 29 and 26 are standard
- Coatings - Acrylic coated Galvalume and Siliconized Polyester
- Slim Line panels are design to be applied over a solid substrate (i.e 5/8" thick minimum plywood decking)
- Fasteners – 10x1" pancake head wood screws @ 1'-0" o.c.
- The use of a vapor barrier is recommended (i.e. 30# roofing felt)

Product Information

Slim Line 16

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
29	60 *	0.75	0.0060	0.0083	0.342	0.0080	0.0089	0.424
26	60 *	0.94	0.0084	0.0114	0.483	0.0118	0.0132	0.631

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

NOTES:

1. All calculations for the properties of Slimline panels are calculated in accordance with the 2012 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.

29 Gauge (0.0133"), Fy = 60 ksi, Fu = 61.5 ksi						
SPAN TYPE	LOAD TYPE	SPAN IN FEET				
		1.0	1.5	2.0	2.5	3.0
1-span	NEGATIVE WIND LOAD	--	--	--	--	--
	LIVE LOAD/DEFLECTION	--	--	--	--	--
2-span	NEGATIVE WIND LOAD	31.20	27.30	23.40	22.10	20.80
	LIVE LOAD/DEFLECTION	123.84	82.56	55.63	35.93	25.08
3-span	NEGATIVE WIND LOAD	31.20	27.30	23.40	22.10	20.80
	LIVE LOAD/DEFLECTION	140.73	93.82	68.77	44.59	31.19
4-span	NEGATIVE WIND LOAD	31.20	27.30	23.40	22.10	20.80
	LIVE LOAD/DEFLECTION	135.45	90.30	64.44	41.72	29.16

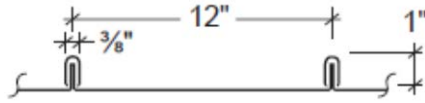
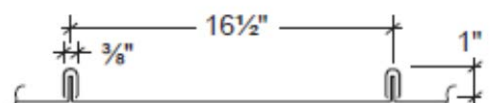
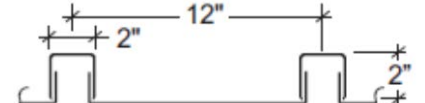
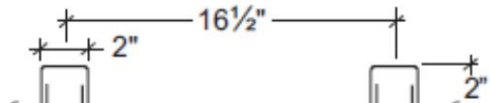
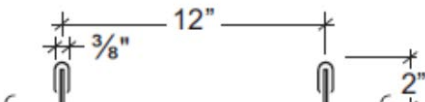
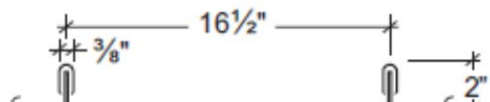
26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi						
SPAN TYPE	LOAD TYPE	SPAN IN FEET				
		1.0	1.5	2.0	2.5	3.0
1-span	NEGATIVE WIND LOAD	--	--	--	--	--
	LIVE LOAD/DEFLECTION	--	--	--	--	--
2-span	NEGATIVE WIND LOAD	39.00	36.40	33.80	31.20	28.60
	LIVE LOAD/DEFLECTION	217.22	137.21	78.58	50.72	35.39
3-span	NEGATIVE WIND LOAD	39.00	36.40	33.80	31.20	28.60
	LIVE LOAD/DEFLECTION	246.84	164.56	97.22	62.98	44.03
4-span	NEGATIVE WIND LOAD	39.00	36.40	33.80	31.20	28.60
	LIVE LOAD/DEFLECTION	237.58	158.27	91.07	58.92	41.16

Notes:

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads. **When the panel is installed over plywood or some other solid structural substrate, the above LIVE LOAD/DEFLECTION values are invalid, and the NEGATIVE WIND LOAD capacity is determined strictly by the capacity of the solid structural substrate.**
4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports, and are based on ASTM E1592 test results. Because the E1592 test results are not valid for single-span conditions, **this panel is not recommended for single-span applications and no single-span capacity has been listed for either NEGATIVE WIND LOAD or LIVE LOAD/DEFLECTION cases.**
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

Product Information

Craftsman Series

PANEL	12" COVERAGE	16 1/2" COVERAGE
SMALL BATTEN	 SB12	 SB16.5
LARGE BATTEN DISCONTINUED	 LB12	 LB16.5
HIGH BATTEN	 HB12	 HB16.5

The Craftsman Series is a snap-on batten roof system, available in a small, ~~large~~ or high batten. The panel and batten are manufactured separately to maximize design flexibility and for ease of installation at difficult hip, valley and slope change conditions.

Craftsman panels are water shedding panels. Minimum roof slope is 3:12. The panels must be installed over a completely waterproofed substructure. If the waterproof membrane is mechanically attached with metal fasteners of any type, fasteners should be covered to protect the back side of the roof panels. Any mechanical attachment device that does not lay flat on the deck will telegraph through the panels.

For continuous roof panels over 40', please inquire. Panels may be end lapped.

Additional Features

- Coverage width – 12" and 16 1/2"
- Minimum slope - 3:12
- Panel substrate - Galvalume
- Gauge – 24 gauge is standard
- Finish – Smooth (standard) or Striated (Optional)
- Coatings - Acrylic coated Galvalume, Siliconized Polyester and KYNAR
- Craftsman Series panels are design to be applied over a solid substrate (i.e. 5/8" thick minimum plywood decking)
- Panel attachment – concealed clips @ 2'-0" maximum spacing
- The use of a vapor barrier is recommended (i.e. 30# roofing felt)

Product Information**Craftsman Series****UL 90 REQUIREMENTS**

Construction #280

SB Over Plywood Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - SB clip - spaced 2'-0" o.c. max.
3. Fasteners - #10 x 1" pancake head. 1 per clip.

Construction #310

SB Over Metal Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - SB clip - spaced 2'-0" o.c. max.
3. Fasteners - 1 per clip.

Construction #281

LB Over Plywood Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - LB clip - spaced 2'-0" o.c. max.
3. Fasteners - #10 x 1" pancake head. 1 per clip.

Construction #308

LB Over Metal Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - LB clip - spaced 2'-0" o.c. max.
3. Fasteners - 1 per clip.

Construction #282

HB Over Plywood Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - HB clip - spaced 2'-0" o.c. max.
3. Fasteners - #10 x 1" pancake head. 1 per clip.

Construction #309

HB Over Metal Deck

1. Metal Panels - 24 gauge or heavier - 12" or 16½" wide, continuous over two or more spans.
2. Panel Clips - HB clip - spaced 2'-0" o.c. max.
3. Fasteners - 1 per clip.