



Making Buildings  
That Make Our Builders The Best.



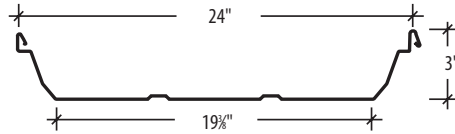
# Ultra-Dek® & Double-Lok®

Standing Seam Roof Systems



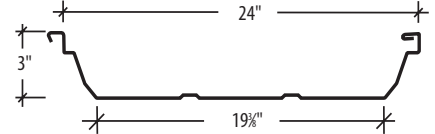


### Ultra-Dek® Panel Profile



Seamed with an interlocking snap seam making installation faster and easier.

### Double-Lok® Panel Profile



Machine joined at the edges with a true 360 degree Pittsburgh seam, which is mechanically locked with the Double-Lok® seamer.

### Panel Specifications

- **SUBSTRATE**  
Galvalume® coated steel. Unpainted panels are acrylic coated.
- **WARRANTY**  
20-year finish warranty standard.
- **SEALANT**  
Factory applied thermal set sealant, which resists dirt accumulation and thermal separation.
- **INSULATION**  
Varying thickness up to an R-Value of 38.
- **WIND UPLIFT**  
UL 90 rated. FM 1-60 thru 1-105 ratings available.
- **FASTENERS**  
Eave = self driller with neoprene washer  
Endlaps = self taper with washer  
Ridge = Lap Tek self driller with neoprene washer  
Clips to purlins = Tek 2 self driller with washer  
Clips to Long Bay = Tek 2 self driller with washer  
Trim to panel = Lap Tek self driller with neoprene washer
- **LIGHT TRANSMITTING PANELS**  
Optional skylights are available insulated or non-insulated, with or without a UL 90 rating.
- **INSURANCE**  
Our UL & FM ratings allow for reduced building insurance rates.

### Engineering Properties for Double-Lok® Steel Panels

Gauge	F <sub>y</sub> (KSI)	Weight (PSF)	Top Flat in Compression			Bottom Flat in Compression		
			I <sub>xe</sub> (IN <sup>4</sup> /FT)	S <sub>xe</sub> (IN <sup>3</sup> /FT)	Maxo (IN-KIP)	I <sub>xe</sub> (IN <sup>4</sup> /FT)	S <sub>xe</sub> (IN <sup>3</sup> /FT)	Maxo (KIP-IN)
24	50	1.23	0.153	0.115	2.713	0.270	0.115	3.427
22	50	1.56	0.207	0.162	3.567	0.363	0.150	4.488

- All calculations for the properties of Double-Lok® panels are calculated in accordance with the 2001 edition of the COLD-FORMED STEEL Design Manual – published by the American Iron and Steel Institute (AISI).
- I<sub>xe</sub> is for deflection determination.
- S<sub>xe</sub> is for bending.
- Maxo is allowable bending moment.
- All values are for one foot of panel width.
- Please inquire for Ultra-Dek® Engineering Properties.

### Allowable Uniform Loads in Pounds Per Square Foot

24 Gauge (F<sub>y</sub> = 50 KSI) (Standard)

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
1-SPAN	LIVE LOAD	142	119	102	89	79	71	65
2-SPAN	LIVE LOAD	128	107	91	80	71	64	58
3-SPAN	LIVE LOAD	146	121	104	91	81	73	66
4-SPAN	LIVE LOAD	140	117	100	88	78	70	64

22 Gauge (F<sub>y</sub> = 50 KSI) (Optional)

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
1-SPAN	LIVE LOAD	215	180	154	135	120	108	98
2-SPAN	LIVE LOAD	207	172	148	129	115	103	94
3-SPAN	LIVE LOAD	235	196	168	147	131	118	107
4-SPAN	LIVE LOAD	226	189	162	141	126	113	103

- Allowable loads are based on uniform span lengths and panel yield strength (F<sub>y</sub>) = 50 ksi.
- LIVE LOAD is limited by bending, shear and combined shear & bending.
- Above loads consider a maximum deflection ratio of L/180.
- THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO REDUCE WIND UPLIFT.
- Weight of the panel has not been deducted from allowable loads.
- Please contact manufacturer or manufacturer's website for most current allowable wind uplift loads.
- 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 engineering data.

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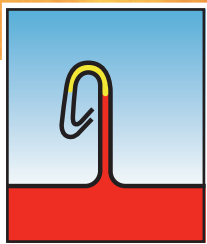
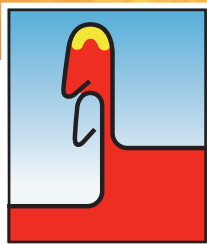
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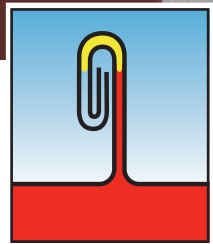
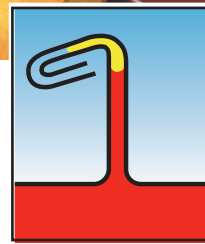
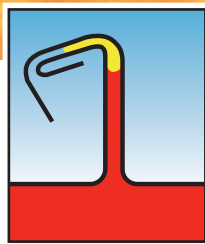
# Ultra-Dek & Double-Lok

## Standing Seam Roof Systems



### Ultra-Dek®

Seamed with an interlocking snap seam making installation faster and easier.



### Double-Lok®

Machine joined at the edges with a true 360 degree Pittsburgh locked seam, which is mechanically locked with the Double-Lok® seamer.

- **Floating Roof:** Designed to eliminate the damage caused by thermal expansion and contraction.
- **Fire Resistance Rating:** UL "Class A" Fire Rating.
- **UL 90 Rating:** Over 7 different UL 90 construction numbers, each available with several options.
- **FM: "Class 1" Standards:** The Double-Lok® roof has met the rigorous "Class 1" standards for fire, wind, foot traffic, hail damage resistance and water leakage resistance.
- **Flexibility:** Wall covering can be erected before or after the roof is installed.
- **Durability:** Every unpainted panel is manufactured from acrylic coated Galvalume Plus®.
- **Colors & Finishes:** Panels are available in 22 popular colors.
- **Prepunched:** Our prepunched system, combined with self-engaging back-up plates, ensures panel modularity and speeds up roof installation.
- **Acceptance:** The most utilized standing seam roofing system. One million square feet of Ultra-Dek® and Double-Lok® ship weekly.
- **Quality Control:** Superior panel finish quality control from corporately owned coating operations.
- **R&D:** The most comprehensive research and development program in the industry, including UL and FM in-house testing.
- **Design:** Designed to avoid water and debris build-up and panel scoring.
- **Training:** Superior installation training programs which include a "Certified Installer" program.

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