Standing Seam Roof System

Hi-Tech Series

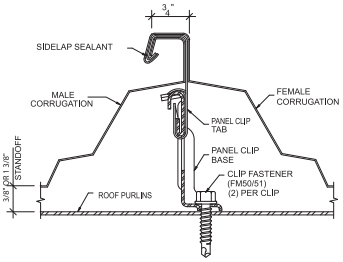
NO OTHER ROOF COMES CLOSE

Believe it or not, when you look at most metal roofs on the market today you are looking at systems that rely on technology that is over 30 years old. It is a fact that the design of existing standing seam roofs have not been fundamentally upgraded since 1969 - when assumptions about wind resistance and expected roof performance were severely under calculated compared to what we know today.

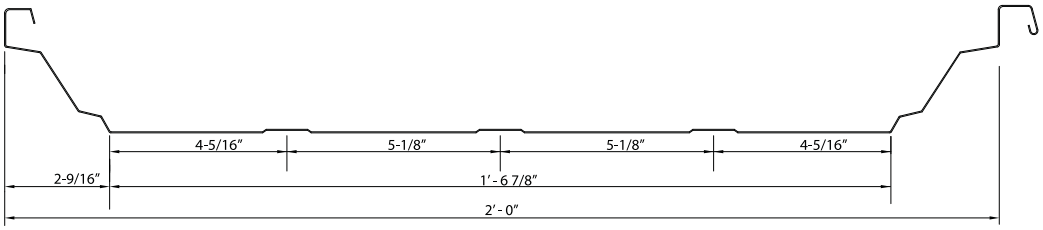
Rigid has used the latest technology available to develop a metal roof system that is designed for tomorrow; with components and techniques that outperform others by specifically addressing current and anticipated building codes and roofing requirements.

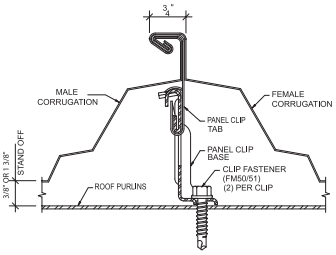
Our proven, patented seam utilizing the TS-324 panel system's technology provides superior wind and weather protection under all loading conditions, the seam geometry and seaming methods to virtually assure that your installed roof will perform as it was designed at a minimal cost.

This is an eco-efficient panel. It can be made **Solar Ready** to accommodate most solar array systems.

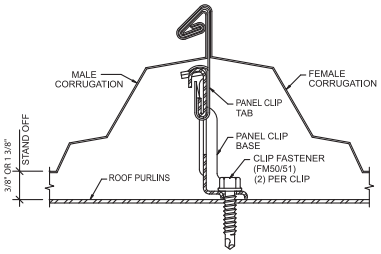


EZ-LOK





TRIP-LOK



QUAD-LOK

RIGID GLOBAL BUILDINGS

INNOVATION • NEW TECHNOLOGY • BETTER PRODUCTS • GLOBAL REACH

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Hi-Tech Series
Standing Seam Roof System

Utilizing a unique patented seam design that offers three lock seam features: EZ-Lok, Triple-Lok, and Quad-Lok - a revolutionary innovation that provides unparalleled performance from one profile.

The **EZ-Lok** seam is accomplished by easily and quickly hand seaming the seam at each clip. This will provide an allowable wind uplift loading of 24.1 psf.*

1. Provides superior water resistance than conventional "double lock" seams by isolating seam sealant from dislodgment or separation during severe wind loading.

2. Fool-proof installation: all that is required is one simple rotation of the hand seamer at each clip to lock the panel to the roof structurals.

3. It can be installed faster than snap-together seams.

The **Triple-Lok** seam is accomplished by seaming the entire seam with an electric seamer. This seam will provide an allowable wind uplift loading of 42.2 psf.*

1. It is the only seam on the market to use the 360° + 90° seam, which:

   * structurally isolates the seam from the effects of severe wind loading by placing load resisting bends between the seam and clip hook and the stresses of panel deflection.

   * isolates the seam sealant from dislodgment or separation during severe wind loading, thereby assuring a water resistant seam throughout the life of the roof.

2. Fool-proof installation: all that is required is the placement of the electric seaming machine on the seam to begin the seaming process. It is virtually impossible for the seamer to run off the seam until it comes to the end of the panel or is removed by the operator.

The Quad-Lok seam is accomplished by seaming special roof zones with an electric seam, when required. This seam will provide an allowable uplift load of 48.2 psf*, (or 90.3 psf over 2'6" purlin spacing).

By using the Quad-Lok seam, the perimeter conditions of roofs in high wind coastal locations can resist wind loads without exterior clamps and brackets that most other roof systems require to meet the Zone III uplift loads.

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RGB 137 Rev. 3/2015

The Quad-Lok seam is the only seam on the market that provides higher uplift resistance with 24 gauge panel than all other roof systems using 22 gauge panels. The following recognized certifications and listings have been earned:

Factory Mutual Research Corporation (FMRC) Standard 4471:
- Windstorm Class 1-60 (Assembly # 79112-0-0)
- Windstorm Class 1-90 (Assembly # 79113-0-0)

Underwriters Laboratories UL-90 Classification Construction No. 552
Corps of Engineers CEGS 07416 Uplift Test
ASTM E 1592 Uplift Test (3 tests each span each gauge)
ASTM E 1680 Air Infiltration
ASTM E 1645 Water Leakage
ASTM E108 Class A Spread of Flame Test and Series of Hail Tests Class 1-SH

The roof system utilizing the TS-324 panel system's technology has been tested and certified by independent testing agencies and laboratories and has achieved the loads and listings shown below.

Underwriters Laboratories Inc. Construction No. 552, 552A, 552B
Rigid Global Buildings roof with EZ-Lok, Triple-Lok and Quad-Lok seam.

UL Listing	Panel Width	Panel Ga.	Seam Type	Purlin Ga.	Purlin Spacing
UL-60	24"	24 ga.	All Seam	16 ga.	5' 0"
UL-90	24"	24 ga.	All Seam	16 ga.	5' 0"

Factory Mutual 4471 Uplift Test Results
Rigid Global Buildings roof with Triple-Lok or Quad-Lok seam.

FM Listing	Panel Width	Panel Ga.	Purlin Depth	Purlin Ga.	Purlin Spacing
1-60	24"	24 ga.	8"	16 ga.	5' 0"
1-90	24"	24 ga.	8"	16 ga.	4' 0"

ASTM E 1592 Uplift Test Results
Rigid Global Buildings roof with EZ-Lok seam.

Purlin Spacing	Panel Width	Panel Ga.	Design Load AISI CF00-I (sf=1.724)
2' 6"	24"	24 ga.	42.2
5' 0"	24"	24 ga.	24.1

ASTM E 1592 Uplift Test Results
Rigid Global Buildings roof with Triple-Lok seam.

Purlin Spacing	Panel Width	Panel Ga.	Design Load AISI CF00-I (sf=1.724)
2' 6"	24"	24 ga.	62.3
5' 0"	24"	24 ga.	42.2

ASTM E 1592 Uplift Test Results
Rigid Global Buildings roof with Quad-Lok seam.

Purlin Spacing	Panel Width	Panel Ga.	Design Load AISI CF00-I (sf=1.724)
2' 6"	24"	24 ga.	90.3
5' 0"	24"	24 ga.	48.2

ASTM E 1680 Air Infiltration all seams 24" wide panels = .0005 CFM/sq. ft.
ASTM E 1645 Water Leakage all seams 24' wide panels = None at 12 psf

* When seamed over a 5'-0" purlin spacing. All of the above seams and load tolerances are calculated in accordance with AISI using ASTM E 1592 tests.

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