

Metal over Metal Retrofitting is Easy

If you have done your testing



**DID YOU KNOW RETROFIT SYSTEMS DO NOT TEST LIKE THEY CALCULATE?
WE HAVE THE TEST DATA TO PROVE IT!**

- Can you meet the new higher ground snow and unbalanced snow loads?
- Can you strengthen the existing roof purlins to overcome the weight of the new roof system and accessories, including new Photo-voltaic Loads?
- Can you meet the new high wind uplift loads?

ROOF HUGGER Can!

ROOF HUGGER®

800-771-1711

www.Roofhugger.com

ROOF HUGGER RETROFIT SOLUTIONS

ROOF HUGGER, LLC, leads the metal over metal (MOM) re-roof industry with their continued development of products and low-profile sub-framing systems that satisfy current code requirements. In order to accomplish this Roof Hugger has performed years of laboratory testing to validate their systems.

DO YOU NEED TO WATCH YOUR WEIGHT?

The International Building Code allows an additional 3.0 # /S.F. without a full structural analysis. A typical MOM retrofit weighs between 1.5-2.5 # /S.F.

If the building is of "High Importance" or in question due to the installation of additional roof mounted or underhung systems, then a structural analysis is called for.

ROOF HUGGER CAN HELP WITH THE NEED FOR MORE PURLIN CAPACITY.

We have conducted both simple and continuous span, AISI Base Gravity Load Purlin Testing that demonstrated Huggers can typically add strength to the existing purlins.

The tables below show common results for various web height and gauge Roof Hugger sub-purlins.

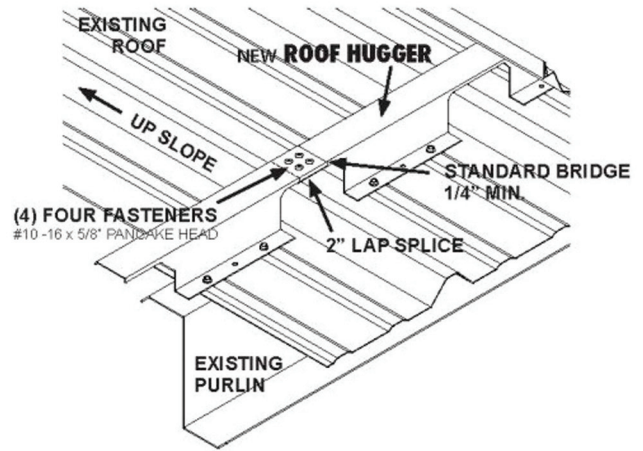
TABLE 1 – PURLIN STRENGTH INCREASE WITH STANDARD PROFILE ROOF HUGGERS
(1/4" Bridge Above Major Rib Cutouts)

Existing Purlin Size 25' Bay Spacing	Purlin Span	Gravity Load 16 GA	Gravity Load 14 GA
8 X 2.5 Zee x 16 GA	25'-0"	31%	42%
8 X 2.5 Zee x 14 GA	25'-0"	18%	32%
8 X 2.5 Zee x 12 GA	25'-0"	2%	10%

TABLE 2 – PURLIN STRENGTH INCREASE WITH SPECIAL FABRICATED ROOF HUGGERS
(2-7/8" Bridge Above Major Rib Cutouts)

Existing Purlin Size 25' Bay Spacing	Purlin Span	Gravity Load 16 GA	Gravity Load 14 GA
8 X 2.5 Zee x 16 GA	25'-0"	50%	79%
8 X 2.5 Zee x 14 GA	25'-0"	25%	55%
8 X 2.5 Zee x 12 GA	25'-0"	0%	18%

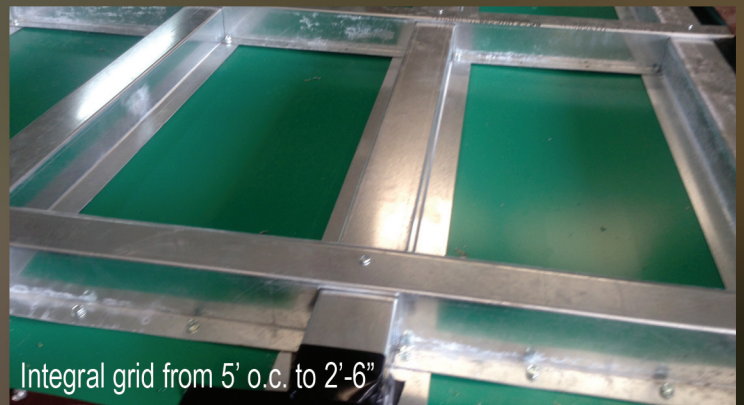
Standard HUGGER Lap Over ANY Gauge Purlins-
(Less than 1" above panel rib cutout.)



HOW IS ROOF HUGGER MEETING THE NEW HIGH WIND LOAD REQUIREMENTS?

It is interesting to note that Roof Hugger testing over dozens of screw-down and standing seam panels demonstrated that it is not the Roof Hugger that fails in high wind loads, it is the new metal roof panel.

As a result of this testing we created a number of low profile assemblies that effectively reduce the existing purlin spacing to what is needed to allow the new panels to meet the uplift pressures as per their design testing data.



WHO DOES THE PROJECT ENGINEERING?

- Roof Hugger can do preliminary design load estimates and layouts upon request, at no charge.
- Third party plans and engineering can be quoted with the project based upon our prelim designs.
- Roof Hugger can also assist professional design firms wishing to provide their own engineering.

