SIP No. 2079

Subject: **Metal Roofing Attachment**

Date: **April 2013**

R-Control SIP roofs can be finished with a wide range of roof covering systems. Metal roofing is one type of roof covering that has been used successfully over R-Control SIPs for many years. Metal roofing provides a water tight roof system and has a long life expectancy when compared to many other roofing systems. One major advantage of metal roofing is that minimal maintenance is required over the life of the roof.

As with all roof covering systems, the installation must be in compliance with the metal roofing manufacturer's recommended installation details. The primary consideration when installing metal roofing over R-Control SIPs is to ensure the roofing manufacturer provides installation recommendations for proper attachment into the 7/16" OSB facing of the R-Control SIP.

Berridge Manufacturing Company, a leader in the metal roofing industry, provides installation recommendations for the attachment of their metal roof system directly into the 7/16" OSB facing of R-Control SIPs. Following their installation recommendations provides assurance that the metal roof system will provide the long term durability that is expected.

R-Control confirmed the strength of the Berridge attachment recommendations by testing the uplift resistance of the 24 gauge Zee-Lock panel in accordance with UL 580, "Tests for Uplift Resistance of Roof Assemblies". The tested assembly consisted of the Zee-Lock panel installed with a double lock, continuous Zee Rib, and #14 x 1-1/2 in. hex washer head Type A w/sealing washer from SFS Intec directly into the 7/16 in. OSB facing of an R-Control SIP. Two different fastening frequencies were evaluated.

Ultimate Pressure	Fastener Spacing
160 psf	14 in. o.c.
265 psf	8 in. o.c.

The test results clearly demonstrate that metal roofing can meet high wind uplift pressures when fastened directly into the 7/16 in. OSB of an R-Control SIP.

For further information regarding Berridge Manufacturing Company products, please visit www.berridge.com

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