

SUBJECT: METAL ROOFING ATTACHMENT

Extreme 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 Extreme SIPs for many years. Metal roofing provides a water-tight roof system and has a long life expectancy compared to many other roof claddings. 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 comply with the metal roofing manufacturer’s recommended installation details.

The primary consideration when installing metal roofing over Extreme SIPs is to ensure the metal roofing manufacturer provides installation recommendations for proper attachment into the 7/16” OSB facing of the Extreme SIPs. 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 Extreme SIPs. Following their installation recommendations ensures that the metal roof system will provide the long-term durability expected.

Extreme Panels confirmed the strength of the Berridge attachment recommendations by testing the uplift resistance of Berridge 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 the Extreme SIPs. 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 Extreme SIPs.

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

In addition, MBCI, another leader in the metal roofing industry, can provide installation recommendations for the installation of their metal roofing products directly into the 7/16" OSB facing of Extreme SIPs. Following the MBCI installation recommendations ensures that their metal roofing materials will provide long-term durability when their metal roofing is selected. For further information regarding MBCI Metal Roofing, please visit www.mbc.com.

Similar performing metal roofing systems may be available in the marketplace. It is the responsibility of the designer and installer to determine if the manufacturer of these metal roofing systems recommends the use of their products and to obtain installation instructions and details for application when applied over SIP roof deck assemblies.