

SUBJECT: SEALING EXTREME SIPS

Building science has taught us that a tight building envelope significantly contributes to the energy efficiency of the structure. Building science has also shown us that SIPs can significantly reduce air leakage through the building envelope. This reduction in air leakage significantly enhances the energy efficiency of an SIP structure.

If a structure using Extreme SIPs is to achieve reduced air leakage that contributes to the energy efficiency of the SIP system, the details relating to the sealing of SIP joints and connections must be followed. Designers and contractors are encouraged to become thoroughly familiar with the Extreme Panel technical bulletins and details that describe the proper use of Extreme's SIP Sealant and SIP tape.

Please refer to the Extreme Panel Construction Manual for illustrations of Extreme's SIP Sealant and SIP Tape installation. The Details and Instructional Videos demonstrating Extreme's SIP Sealant and SIP Tape installation can all be found at www.extremepanel.com.

Low-expanding foam sealants compatible with the rigid insulation core (EPS) must be used to seal penetrations cut into Extreme SIPs during the construction process. This includes any penetrations from construction, as well as penetrations for the HVAC, plumbing, and electrical systems. These penetrations need to be thoroughly and completely sealed. Proper sealing of the electrical chases in Extreme SIPs, as well as the electrical boxes within the Extreme SIPs, is part of the Extreme Panels sealing process.

Giving proper attention to the sealing of penetrations, SIP joints, and connections in your Extreme SIPs structure will ensure that the structure has minimal air leakage through the exterior envelope, helping to maximize the energy efficiency of the Extreme SIPs high-performance envelope.