
SUBJECT: SEALING PREMIER 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 envelop. This reduction in air leakage significantly contributes to the energy efficiency of a SIP structure.

If a structure using Premier SIPS is going 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 needs to be followed. Designers and contractors are encouraged to become thoroughly familiar with the Premier SIPS technical bulletins and details that describe proper use of Premier SIPS Sealant and SIP tape.

Please refer to the Premier SIPS Resource Manual for illustrations of Premier SIPS Sealant and SIP Tape installation. The Resource Manual, Details and Instructional Videos demonstrating Premier SIPS Sealant and SIP Tape installation can all be found at www.premiersips.com.

Low expanding foam sealants compatible with the rigid insulation core (EPS) must be used to seal penetrations cut into Premier SIPS during the construction process. This would include any penetrations from the construction process, 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 Premier SIPS, as well as the electrical boxes within the Premier SIPS, would be part of the Premier SIPS sealing process.

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