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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 realize the reduced air leakage that contributes to the energy efficiency of the SIP system, the details relating to the sealing of the SIP panel joints and connections need 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 mastic and SIP tape.

Expanding foam sealants compatible with EPS must be used to seal penetrations made in the 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 panels as well as the electrical boxes within the panels would be included in this process.

By paying attention to the sealing of penetrations, SIP panel joints and connections in your Premier SIPs structure you will ensure that your structure has minimal air leakage through the exterior envelop thus helping to maximize the energy efficiency of the Premier SIPs system.