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**SUBJECT: ROOFING UNDERLAYMENTS OVER PREMIER SIPS**

One of the many benefits of building with Premier SIPS is speed of construction. Speed of roof installation is especially beneficial in climates where precipitation is prevalent. However, precipitation during installation and its effects on a SIP roof assembly and roofing materials should be fully understood and mitigated. Proper construction methodology and sequencing for the installation of roofing materials over SIPs, is to allow the OSB and the interior of the SIP joints to dry adequately, prior to the installation of the roofing underlayment.

When these conditions present themselves on your project, Premier SIPS perform best with the use of a synthetic, breathable roofing underlayment below the final roof covering material as an alternative to traditional 15# or 30# asphalt saturated or coated roofing felts. Breathable roofing underlayment's having perm ratings of 15 or higher are recommended. Breathable underlayment allows water vapor to pass through the membrane yet restricts the bulk water movement back through the membrane toward the OSB facer of the SIP roof deck.

The science behind a breathable underlayment is to allow water vapor, that gets trapped at the OSB interface to pass through the synthetic roofing underlayment and once on the exterior side of the membrane it can condensate on the underside of the roofing material and run off the roof.

Adhered underlayment can be used on sloped roofs as code recognized ice barriers for roof eaves, valleys and gables. When adhered underlayment is used over a Premier SIPS roof deck, they should be vapor permeable and applied over a first layer of vapor permeable underlayment, nail applied to the SIPs roof deck.

There are many manufactures of breathable underlayment's in North America. A quick internet search will turn up manufactures and suppliers available to supply your project. Be sure you: verify with the manufacture that the perm rating of their breathable underlayment is 15 or greater and that their breathable underlayment is compatible with the roofing materials you intend to install on your SIPs project.

Following is a partial list of Vapor Permeable Underlayment\* manufacturers you may contact to learn about their products:

# TECHNICAL BULLETIN

## NO. R-3



1. Vapro Shield – SlopeShield® Plus Self Adhered  
[www.vaproshield.com](http://www.vaproshield.com)
2. Malarky Roofing Products – Secure Start® Permeable  
[www.malarkyroofing.com](http://www.malarkyroofing.com)
3. GAF – Deck-Armor™  
[www.gaf.com/en-us/products/deck-armor](http://www.gaf.com/en-us/products/deck-armor)
4. ACGI - USP Underlayments  
<https://allenconsultinggroup.net>
5. DELTA®-FOXX  
[www.dorcken.com/en/our-products/products/residential/delta-foxx.php](http://www.dorcken.com/en/our-products/products/residential/delta-foxx.php)

\*Premier SIPS has no business relationship, financial interest or involvement in the performance or warranty claims made by the companies listed above. It is the responsibility of our customer to research the information obtained from these companies and make their own determination for the suitability of the products listed above, when used with Premier SIPS.