TECHNICAL BULLETIN
NO. W-2
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EXTREME PANEL TECHNOLOGIES

SUBJECT: EIFS & EXTREME SIPS

Extreme SIPs structures can be finished with any code-approved weather covering. Exterior Insulation Finish Systems (EIFS) are one type of code-recognized weather covering. EIFS provide watertight protection and have been used successfully over Extreme SIPs structures for many years. It is recommended that EIFS intended for use over OSB substrates be used. EIFS system installers must follow the EIFS Manufacturer's installation guidelines to achieve a warranted outcome.

Various code jurisdictions require that the EIFS being installed include a water drainage system. Many EIFS Manufacturers have systems that meet this requirement.

STO SYSTEM:

Sto Corp. has developed StoTherm® ci, a water-managed EIFS, utilizing an air/moisture barrier system that works exceptionally well over Extreme SIPs. The Sto system features benefits that enhance the long-term performance of Extreme SIPs:

1. Extreme SIPs OSB skins and penetrations are moisture protected.
2. StoTherm ci is adhesively applied, resulting in a perfectly air- and watertight surface coating over the SIP exterior skin.
3. Incidental water that may get behind the EIFS is drained outside the system.

This Technical Bulletin provides guidelines for applying StoTherm ci with StoGuard® Moisture Protection when applied over Extreme SIPs.

GENERAL CAUTION:

StoGuard protects the Extreme SIPS OSB facings from moisture damage during the construction phase, as well as in-service protection in the event of a moisture breach in the EIFS wall cladding. Proper application by the installer is required. Application of the StoGuard over Extreme SIPs is not intended to correct faulty workmanship. It is essential that proper flashing and details be integrated into the design to direct water to the outside of the cladding system. Defective components of construction, such as leaky windows and doors, should not be used.

APPLICATION RECOMMENDATIONS:

Sto Corp. publishes complete specifications for the installation of their StoGuard and StoTherm ci. The following recommendations are provided as they apply to installations over Extreme SIPs. Prior to starting any work, thoroughly read all specifications and installation guidelines.

STEP 1:

Clean Extreme SIPs OSB facing surfaces that are to receive the StoGuard Moisture Protection System. Extreme SIPs OSB surfaces must be in good condition, free of dirt and all bond-inhibiting contaminants. Surfaces must be dry, with the ambient air temperature at 40°F and rising before application can occur.

STEP 2:

Apply Sto Gold Coat® to the entire exterior Extreme SIPs OSB facing receiving the Sto EIFS. Using a 3/4" (19mm) nap roller, apply Sto Gold Coat in a uniform wet thickness coating of 10 mils. Protect from weather and temperature until dry.

STEP 3:

Extreme SIPs joints, rough openings, corners, and tops of wall parapets are filled and covered with Sto Gold Fill® and StoGuard Mesh, embedded into the Sto Gold Fill (additional Sto joint and rough-opening material options are listed at www.stocorp.com). Fastener and surface defects must be spot-filled with Sto Gold Fill. Application is by trowel with a maximum thickness on the Extreme SIPs OSB surface of 1/16". Joints require a 4" minimum width mesh, while rough openings, corners, and parapets require a 9" minimum width mesh detail.

STEP 4:

Re-apply a second coat of Sto Gold Coat over the entire Extreme SIPS OSB facing receiving the Sto EIFS, including all surfaces previously covered with Sto Gold Fill. Using a 3/4" (19mm) nap roller, apply Sto Gold Coat in a uniform wet thickness coating of 10 mils. Protect from weather and temperature until dry.

STEP 5:

Coordinate the proper installation of flashing and other moisture protection components, such as windows, doors, fireplaces, chimneys, and other similar penetrations that impact the watertightness of the StoTherm ci applied over the Extreme SIPs.

STEP 6:

Install the StoTherm ci System per the manufacturer's detailed specifications and installation guidelines, including all accessories such as, but not limited to: Starter Track, Window/Door Head Flashing, Side Wall Step Flashing, Backwrapping, adhesive and EPS Insulation Board, Trim and Reveals, Base Coat and Reinforcing Mesh, Primer, and Finish Coat. dry, with the ambient air temperature at 40°F and rising before application can occur.

NOTE:

This Technical Bulletin presents applications using Sto Gold Fill, StoGuard Mesh and the StoTherm ci System. Information regarding other Sto products and systems options are available at www.stocorp.com.