



SIP No. 2045

Subject: Exterior Insulation & Finish Systems (EIFS)

Date: November 2007 (Revised January 2015)

R-Control SIP 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 water tight protection and have been used successfully over R-Control SIP 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 be 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 with R-Control SIPs. The Sto system features benefits that enhance the long term performance of R-Control SIPs:

- (1) R-Control SIP OSB skins and penetrations are moisture protected.
- (2) StoTherm ci is adhesively applied - fastener penetrations are not made into the R-Control SIP OSB facing.
- (3) Incidental water that may get behind the EIFS is drained outside the system.

This Technical Bulletin gives guidelines for the application of the StoTherm ci with StoGuard® Moisture Protection, when applied over R-Control SIPs.

General Caution:

StoGuard protects the R-Control SIP OSB facing 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 is required of the installer. Application of the StoGuard over R-Control SIPs is not in-

tended to correct faulty workmanship. It is essential that proper flashing and details be integrated into the design that 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 being provided as they apply to installations over R-Control SIPs. Prior to starting any work, completely read all specifications and installation guidelines.

Step 1:

Clean R-Control SIP OSB facing surfaces that are to receive the StoGuard Moisture Protection System. R-Control SIP 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 R-Control SIP 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:

R-Control SIP 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 maximum thickness on the R-Control SIP OSB surface being 1/16". Joints require a 4" minimum width mesh. 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 R-Control SIP 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 like penetrations that impact the water tightness of the StoTherm ci applied over the R-Control SIPs.

Step 6:

Install the StoTherm ci 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.

This Technical Bulletin presents applications using Sto Gold Fill and StoGuard Mesh. Information regarding other Sto joint and rough opening product options is available at www.stocorp.com.



R-Control SIPs are made exclusively with Foam-Control EPS. R-Control SIPs and Foam-Control EPS are manufactured by AFM Corporation licensees.

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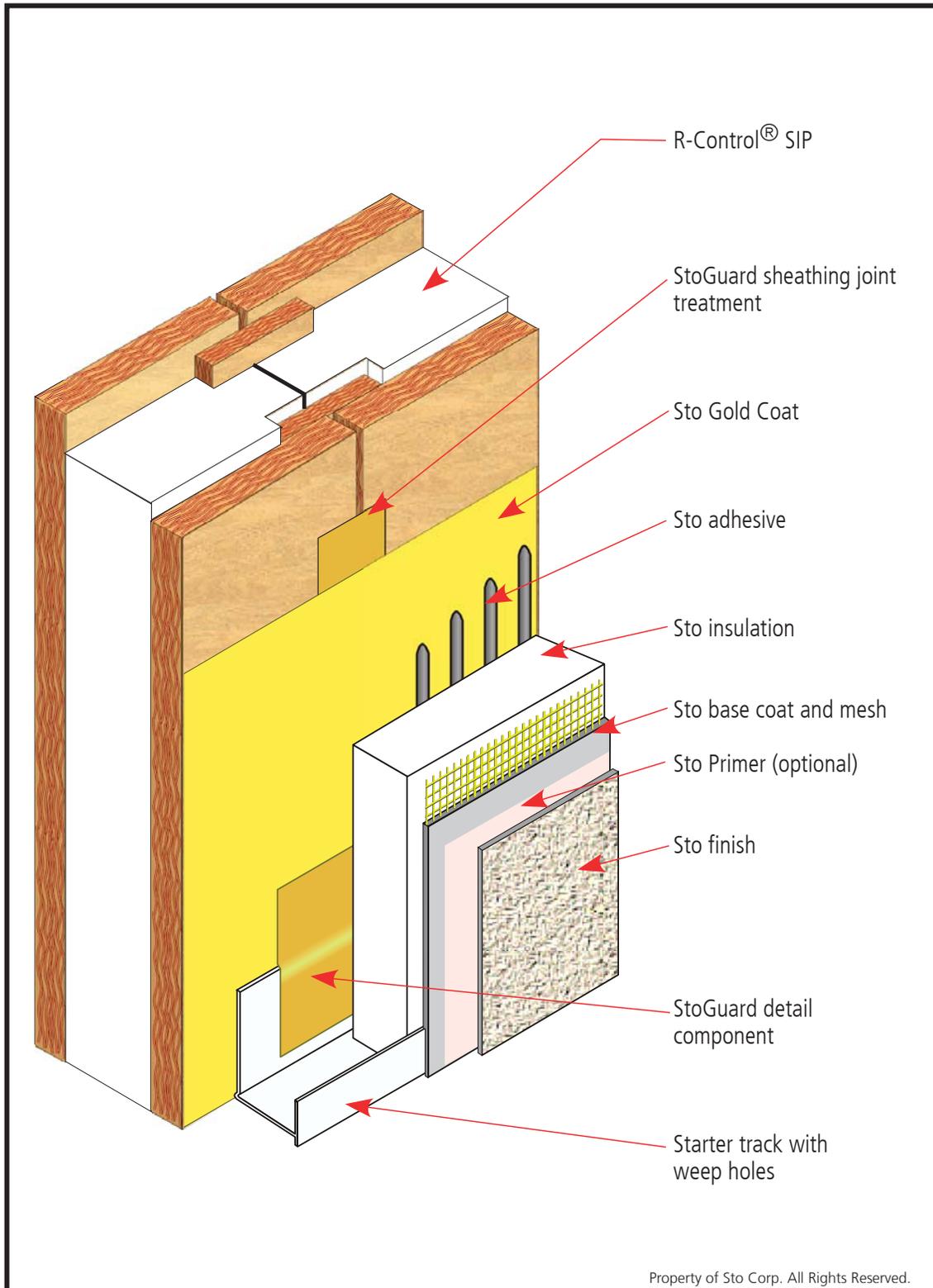
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StoTherm® ci

System Components: R-Control® SIP

Detail No.: 10.00sip

Date: Dec. 2014



Notes:

- 1] Detail shows the components of a StoTherm ci Exterior Insulation and Finish System (EIFS) with StoGuard Moisture Protection installed on an R-Control® SIP.
- 2] StoGuard detail component options:
 - a) StoGuard RapidFill
 - b) Sto Gold Fill and StoGuard Mesh
 - c) Sto Gold Coat with StoGuard Fabric
- 3] StoGuard joint treatment options:
 - a) StoGuard RapidFill
 - b) Sto Gold Fill and StoGuard Mesh
 - c) Sto Gold Coat with StoGuard Fabric
 - d) StoGuard RapidSeal with StoGuard Mesh
- 4] StoGuard door and window rough opening options:
 - a) StoGuard RapidSeal
 - b) Sto Gold Fill and StoGuard Mesh
 - c) Sto Gold Coat with StoGuard Fabric
- 5] See Sto specification A1000G and individual Sto product bulletins for additional information regarding selection and installation of Sto products
- 6] See additional Sto details at www.stocorp.com for rough opening preparation and penetration details.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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