Sto is the innovative world leader in cladding, coating and restoration systems. Sto was an Exterior Insulation and Finish Systems (EIFS) pioneer, introducing Sto EIFS to Europe in 1963. Headquartered in Atlanta, Georgia, Sto Corp., which is ISO 9001:2000 certified, continues to lead the North American industry in innovation. For example, our silicone-enhanced products featuring StoSilco® Technology offer greatly improved properties over traditional acrylic-based products and make for high quality, long-lasting installations. StoMachine Technology, another example of Sto innovation, speeds production while supporting quality installations.

Because of our pioneering experience and technology know-how, we have produced wall systems for tomorrow that are renowned today for their outstanding performance and aesthetic beauty. We’ve developed a Sto wall system for virtually any substrate, circumstance and budget, products to solve or prevent a myriad of problems, and 100% synthetic resin coatings in colors that challenge the imagination.

We at Sto hope that through our commitment to high standards of quality, innovation and service, we will gain your confidence in our company and our products . . . because your success is ours.
The Exterior Insulation and Finish System (EIFS)
Introduction
A traditional EIFS, also known as a Class PB EIFS, is a non-load bearing exterior wall cladding consisting of:
1. Adhesive and/or mechanical attachment
2. Insulation board
3. Glass fiber reinforcing mesh
4. Base Coat
5. Finish Coat

Traditional EIFS offer many advantages in comparison to other claddings, including:
• Energy savings
• Excellent weather resistance
• Seamless wall covering
• Low installed cost
• Aesthetic versatility
• Low maintenance

Because it provides moisture protection at the outer plane of the wall a traditional EIFS is often called a barrier, or face seal, wall design. In combination with other components of construction - windows, flashings and sealants - it resists moisture penetration at the outermost surface of the wall.

Sto EIFS NExT® is the next generation of EIFS which adds a seamless waterproofing/air barrier behind the EIFS wall covering. Sto EIFS NExT® provides all the same benefits of traditional EIFS, plus it provides:
• Secondary moisture protection
• Increased air infiltration/exfiltration resistance
• Drainage of incidental moisture in the event of a breach in the EIFS wall covering (much like a cavity wall design), when combined with starter track with weep holes and vertical ribbons of adhesive.

As a manufacturer of high quality, technologically advanced products, Sto wishes to provide you with as much information as possible to ensure that you, the professional installer, achieve a successful, high quality installation. This installation handbook presents in a brief form the essential guidelines and information you need to install Sto Classic, Essence, and Premier EIF Systems and Sto EIFS NExT® Systems. This handbook was compiled with expert input from Sto Technical Personnel and from experienced applicators in the U.S.

As we at Sto commit ourselves to manufacturing superior quality products and to innovating and introducing new technologies and products, we value and rely on your experience in the field. We hope that you will continue to share it with us. If you have any suggestions, please contact Sto at our headquarters in Atlanta, Georgia.

Project Preparation
Completing the following tasks before beginning installation can help save you time and speed production.

• Set up correct scaffolding the day before you want to work on it. Much time is lost when workers wait for scaffolding or work on inadequate scaffolding. Make sure scaffolding is erected in accordance with OSHA safety regulations.
• Protect necessary areas using masking tape and/or plastic coverings BEFORE you start working. Sto materials, which are designed to stick, cannot be cleaned off easily after they have dried.
• Make sure the correct materials are on the job and properly stored.
• Follow the Sto EIFS Installation Inspection Checklist at the back of this book to verify conformance of work to installation requirements.

Material Storage and Handling
• Pail Products: store and apply all pail products above 40°F (4°C). Store out of sunlight. Do not apply to frozen surfaces.
• Bag Products: store all bag products off the ground in a cool, dry location.
• Do not apply materials to frozen surfaces.
• Sto EPS Insulation Board: store flat (not on edge) in a dry area and protect from sunlight.

Important Note: EIFS require building code evaluation reports that recognize a particular system as an equivalent to the materials/methods of construction prescribed in the code. Most Sto EIFS have model building code recognition. Often these reports are required for issuance of a building permit or to comply with architectural specifications.
Substrates
Sto EIF Systems may be installed over the following substrates:

Sheathing:
- Glass mat faced gypsum sheathing in compliance with ASTM C1177
- Water-resistant exterior fiber-reinforced gypsum sheathing panels in compliance with ASTM C1278
- Gypsum sheathing in compliance with ASTM C79
- Exterior or exposure1 wood - based sheathing - plywood and OSB (Oriented Strand Board)
- Sound, prepared masonry, concrete or Portland cement plaster/stucco.

All sheathing substrates listed above can be treated with Sto Guard® - a liquid-applied waterproofing/air barrier, for added moisture protection and air infiltration resistance.

All sheathing substrates should be handled and installed in accordance with code requirements and manufacturer recommendations. Sheathing should be free from surface defects or moisture damage. Damaged sheathing should be replaced. Poured concrete must be free of form oil, curing compounds or release agents. A detergent wash, waterblasting or sandblasting is typically required to remove such surface contaminants. Other masonry surfaces - brick or concrete block - should be free of surface contamination such as efflorescence. Efflorescence is a white chalky deposit on the surface that is caused by moisture migration through the masonry. Generally wire brushing will remove efflorescence from masonry surfaces. Failure to properly prepare the substrate can result in delamination of the EIFS.

Mechanical attachment is discouraged because fasteners are thermals bridges to the exterior that defeat the purpose of exterior insulation. They can also “telegraph” through the finished wall surface as the EIFS ages and they may limit wind load resistance of the system. The only instance in which mechanical attachment is advised is when adhesion to the substrate is not possible or questionable, such as a painted substrate.

Liquid Applied Waterproofing/Air Barrier
The Sto Guard® assembly is a two-component, liquid-applied system that creates a continuous, seamless waterproofing/air barrier beneath Sto EIF Systems as well as other claddings. Tough and durable, Sto Guard® will not tear like building wraps or paper and resists water penetration 5 times longer than leading brand building wraps and 28 times longer than conventional building paper.

The Sto Guard® assembly consists of:
- **Sto Gold Fill®** – A flexible, trowel-applied joint treatment that, combined with Sto Guard® Mesh or Sto Detail Mesh, bridges sheathing joints and protects rough openings for windows and doors, and building corners. Sto Gold Fill® is applied to sheathing joints and a minimum of 4" (100 mm) wide Sto Guard® Mesh or Sto Detail Mesh is immediately embedded and troweled smooth.

- **Sto Gold Coat®** – A ready-mixed flexible coating that is applied by roller directly to the wall sheathing and over sheathing joints filled with Sto Gold Fill®. It may also be spray applied. Sto Gold Coat® may be used over exterior gypsum Sheathing, Dens-Glass® Gold, Aqua Tough™, exterior or exposure 1 plywood and oriented strand board (OSB).

**Attachments**
The most common way to attach the insulation on the building is with an adhesive. The most popular Sto adhesives are:

1. **Sto Dispersion Adhesive** – Ready-to-use adhesive with high strength and flexibility, used on most smooth, uniform surfaces. Most commonly used over gypsum sheathings or exterior grade wood-based sheathings. Ribbons of adhesive are applied with a 3/16” x 3/8” (5 x 9mm) U-notched trowel. Not recommended over damp or irregular surfaces such as new concrete or masonry.

2. **Sto BTS®-Plus** – A pre-blended adhesive mixed with 6-8 quarts (5.7-7.6 L) of clean water for each 60 lb. (27 Kg) bag. Ribbons of Sto BTS-Plus shall be applied to the insulation board using a 5/8”x 5/8” (16 x 16mm) square-notched or 1/2” x 1/2” (13 x 13mm) U-notched trowel. It is typically used over concrete, masonry, portland cement plaster, gypsum or cement sheathings.

3. **Sto Primer/Adhesive-B** – A one component polymer modified cement based adhesive. Mix with 5-6.5 quarts (4.7-6.2 L) of clean water for each 50 lb. (23kg) bag. Apply with a 1/2” x 1/2” (13 x 13mm) U-notched trowel or 5/8” x 5/8” (16 x 16mm) square-notched trowel. It is typically used over concrete, masonry, portland cement plaster, gypsum or cement sheathings.

4. **Sto Primer/Adhesive** – An acrylic-based adhesive that is mixed at the job-site with Portland cement and applied similar to Sto Primer/Adhesive-B.
5. **Sto BTS®-FastSet Adhesive** (a/k/a Sto FastSet Dry Adhesive/Base) – A one-component, polymer-modified cement-based adhesive that sets in less than half the time of conventional adhesives. Mix with 6-8 quarts (5.7-7.6 L) of clean water for each 60- lb (27-kg) bag. Apply ribbons of Sto BTS®-FastSet Adhesive to the insulation board using a 1/2” x 1/2” (13 x 13mm) U-notched trowel or a 5/8” x 5/8” (16 x 16mm) square-notched trowel.

6. **Sto BTS®-Silo** – A one-component, polymer-modified cement-based adhesive designed for use with StoSilo spray equipment over exterior gypsum sheathing, Dens Glass® Gold sheathing, exterior cementitious sheathing and masonry/concrete substrates.

Note: when wood-based sheathings are protected with Sto Guard®, Sto BTS®-Plus, Sto Primer/Adhesive, Sto Primer/Adhesive-B and Sto BTS®-Silo may be applied over the protected wood-based sheathings.

**Mechanical Fasteners**

Sto does not generally recommend the use of mechanical fasteners, except when the substrate is incompatible with adhesive or its condition is questionable, such as painted substrates. As an added security some architects will specify mechanical attachment. When they are required, the mechanical fastener supplier should be consulted. A minimum 1-1/2” (38mm) insulation board is recommended with mechanical attachment.

**NOTE:** Depending on climate, surface mount fasteners may “telegraph” through the finish because of surface irregularities and the “thermal bridging” effect of fasteners.

**Backwrapping**

Prior to applying the insulation boards to the wall, a strip of reinforcing mesh is adhered to the base of the substrate. This mesh will eventually wrap around the edge of the insulation. We refer to this procedure as “backwrapping.”

**Insulation Boards**

The insulation boards used are Expanded Polystyrene or “EPS” boards. Various thicknesses are available. The minimum thickness allowable is 3/4” (19 mm). The maximum allowable thickness permitted by most building codes for most commercial construction is 4” (100 mm). The maximum size board allowable is 2’ x 4’ (610 mm x 1,219 mm).

**Expanded Polystyrene Quality Test:**

Prior to applying, EPS boards should be checked to ensure they meet Sto Specifications. All EPS boards must be produced by a Sto licensed manufacturer and can be checked in the field as follows:

1. **Upon Delivery**
   A. EPS boards are to be delivered in plastic bags labeled “Sto.”
   B. Each bag should identify technical properties of the Sto Board.

**Procedure**

Using the proper adhesive and strips of Sto Mesh or Sto Detail Mesh, adhere approximately 4” (100 mm) of mesh to the base of the wall. Allow the remaining mesh to hang down; this will be “wrapped” around the insulation board at a later time with a minimum of 2-1/2” (64 mm) on the face of the board. Care should be taken to prevent the adhesive from collecting on the portion of mesh which will be used to wrap the insulation.

**Note:** Sto Detail Mesh, a flexible mesh that is pre-cut in 9” (229 mm) wide rolls is convenient for backwrapping and other detail work.
C. Each board should be clearly marked with the Sto Brand name and the manufacturer quality control number.
D. All boards are to be wire cut (not cast-formed) and the edges are to be square cut.
E. Make sure the EPS boards have not been damaged in handling.

2. Random Sample Tests
A. Proper bead fusion:
   Break a sample and examine beads; 80% of beads should be split. If beads are broken in round shapes, do not use boards.
B. Proper Curing:
   1. Break and smell for pentane gas (smells like lighter fluid).
      If smell is present, do not use boards.
   2. Hold a match near broken insulation. If there is a blue flash flame, do not use boards.
C. Proper treatment for fire retardant:
   Test burn a sample. When the flame is removed, the insulation board should not continue to burn.

3. Storage
   A. Protect from direct sunlight during storage and after application.
   B. Store flat in a dry area (not on edge).

Cutting EPS Boards
Commonly, EPS boards are cut with a knife using a square to guide the cut.

Always keep the knife sharp and hold the blade at a low angle (approximately 30º or less) when cutting the board. The low angle allows the knife to “slice” through the insulation.

EPS boards may also be cut easily and accurately using the following tools: table saw or hot wire machine.

Adhesive Application
Apply the adhesive to the insulation board using the correct size notched trowel. (See pages 9-10 for correct sizes.)

Always hold the notched trowel at a minimum 30º angle to produce the correct size ribbons. When forming the ribbons, press the trowel firmly (this will prevent excess adhesive from collecting between the ribbons). Keep the trowel clean to prevent any adhesive build-up in the notches.

The ribbons should run horizontally (parallel to the long dimension of the board) when the boards are applied to the wall. Exception: Sto EIFS NExT - when Sto EIF Systems are installed with Sto Guard®, the ribbons of adhesive are applied vertically (parallel to the short dimension of the board). This creates channels for moisture drainage.

To make application easier and quicker, build an “easel” to hold the insulation boards as you apply the adhesive.

Adhesive may also be applied directly to the wall using the StoSilo Combo systems. These automated silo/mixer/spray machines will save you time and money and allow you to get to the next job more quickly.

EPS Board Application
Prior to placing the EPS boards on the wall, be sure to wipe or scrape any excess adhesive from the edges of the boards. Any adhesive collecting between the boards will create “thermal bridges”. When applying the boards, butt them tightly together. This will prevent any “thermal breaks” in the system. Gaps between the EPS boards can cause cracking in the EIFS base coat and finish and telegraphing of joints through the finished wall surface.
Filling EPS Voids

As noted in the previous section, the EPS board should be butted tightly together during application. A thorough inspection should be made for any voids or spaces larger than 1/16" (1.6 mm) between the EPS boards. (If you can slip a credit card into the void, it must be filled.)

ALL VOIDS MUST BE FILLED WITH AN INSULATING MATERIAL, either a low expanding polyurethane spray foam or slivers of scrap EPS board. Insulating all open joints between the boards achieves the following important objectives:

- Eliminates thermal breaks so the wall will be properly insulated
- Future problems with the finish due to uneven “vapor diffusion” will be prevented
- Base coat consumption will be reduced.

Always place the boards so all vertical joints are staggered. When placing the boards on the wall, always apply the correct amount of pressure for the adhesive to “grab.”

- When using Sto Dispersion Adhesive, just press the boards on; the adhesive will do the rest.
- When using other Sto adhesives, press harder or “tamp” the board to ensure a good “grab.” To apply uniform pressure over the entire board, use a “Rasping Board” (see page 15) or a large block of similar size.

At all inside and outside corners always stagger or interlock the boards. Offset joints in sheathing by a minimum of 6” (152 mm). This prevents cracking in the EIFS coatings in the event of movement at the sheathing joints.

*Important note: Make sure no adhesive is between the interlocked boards at the outside corner.*

Cut insulation to fit around openings. Do not align board joints with corners of openings.
Rasping
The entire surface of the EPS wall must be level and uniform. EPS boards are very easy to level and shape using a “rasping board.” To make a rasping board, simply cut a straight scrap of 1/2” (13 mm) plywood, install a wooden handle on one face, then glue a piece of 12 grit floor sanding paper to the other face of the plywood. Floor sanding paper is approximately 8” x 22” (203 x 599 mm) and should be available at local equipment rental shops.

When rasping the insulation boards level and even, it is important that you rasp the entire surface of the boards, not just the joints or edges. If you rasp just the edges/joints, then the wall will appear to have waves in it during “critical” light.

Rasping boards are also available commercially. For time and labor savings, use the Sto Power Rasp. This automatic, electrical tool will save you time, money, and labor. Adding the StoVac to the Sto Power Rasp allows you to vacuum up most of the EPS pellets dislodged during the rasping process. Together these tools allow for much cleaner rasping of jobs.

Base Coat & Mesh Application
After the wall has been prepared or leveled, it must be protected from sun/water damage. If EPS board is exposed to sunlight for extended periods, a powdery film develops on the surface. This film must be removed by rasping. Reinforcement is then added to all the boards for impact protection.

To achieve this, apply the proper Sto base coat and embed appropriate mesh. This procedure is known as the “base coat application.”

The most popular Sto base coats are:

Sto RFP - A ready-mixed 100% synthetic base coat. Note: Because Sto RFP is non-cementitious and dries by evaporation only, weather conditions will affect drying times; cool or damp conditions lengthen drying times.

Sto Flexyl - An acrylic-based, fiber-reinforced, flexible waterproofer combined with equal parts of Portland cement by weight. Sto Flexyl functions as an air and moisture barrier on concrete, masonry or gypsum sheathing surfaces. It also functions as a waterproof base coat in Sto EIFS for use on properly sloped trim or accents and splash areas near grade.

Sto BTS® -Plus - A polymer-modified, cementitious material. Just add water.

Sto Primer/Adhesive - A polymer-modified cementitious material. Just add water.

Sto Primer/Adhesive-B - A polymer-modified cementitious material. Just add water.

Sto BTS® -FastSet Base Coat - A polymer-modified cementitious material, designed to set in less than half the time of conventional base coat. It enables quality installation of EIFS in cold or damp weather.

Sto BTS® -Silo - A polymer-modified cementitious material for use with StoSilo spray equipment.

Application at Detail Work
Additional protection at doors and windows is achieved by applying “butterflies” or small strips of mesh diagonally at the sills and headers prior to application of field mesh.
Application at Corners
All inside and outside corners must have two layers of mesh. This can be achieved in one of three ways:

- Double wrap Sto Mesh minimum 8” (204mm) in each direction
- Apply Sto Corner Mat and overlap Sto Mesh up to the corner
- Apply Sto Detail Mesh and overlap with Sto Mesh minimum 8” (204mm) onto adjacent wall

Application at Wall Areas
Apply the Sto base coat on the insulation boards in a layer approximately 1/8” (3 mm) thick. Work vertically or horizontally in strips of 40” (1016mm). Immediately imbed the Sto Mesh in the wet base coat. Trowel off any excess base coat from the surface. The mesh must be fully embedded so that no mesh color is visible. Apply additional base coat if mesh color is visible when the base coat is dry. Do not butt mesh strips. Overlap the strip edges a minimum of 2-1/2” (64 mm). If the mesh is butted it will cause cracks in the base and finish coats. Feather the base coat at mesh overlaps.

Drying before Finish Application
IMPORTANT: All EPS boards are to be covered with the base coat and mesh application and allowed to dry prior to applying any finish.

Primer Application (Optional System Component)
Priming is recommended as a color base for Stolit® R finishes, or fine aggregate finishes such as .75 mm or 1 mm finishes. If Sto RFP base coat is tinted to the same shade as the finish, the primer is not necessary. In addition, priming provides uniform substrate absorption, enhances finish color and inhibits efflorescence in cementitious substrates. The primer is applied with a paint roller or brush to the substrate. Certain finishes, Sto Decocoat and Sto GraniTex, always require the base coat to be primed.

Finish Application
Plan the finish application so enough workers are available to finish entire sections of wall area at one time without interruption.

Mix the finish with a clean, rust-free mixer. Small amounts of clean water may be added to aid workability. Limit water to amount needed to achieve the finish texture. Use only stainless steel trowels to apply the finish. Work in pairs with the first person applying the finish to the wall, and the second person floating the finish to the proper texture (refer to page 20 for “floating textures”).

By following the guidelines listed below and shown in the adjacent pictures, problems can be prevented and an aesthetically pleasing wall surface will be the result:

1. Apply finish directly over the base coat (or primed base coat as specified) ONLY AFTER THE BASE COAT/PRIMER HAS THOROUGHLY DRIED. 24 hours minimum drying time is recommended. If cool and/or damp conditions exist, allow additional drying time, minimum 72 hours.

2. Avoid application in direct sunlight. This can cause shadow lines from scaffolding.
3. Apply finish in a continuous application, always working a wet edge toward the unfinished area.

4. Aesthetic V-grooves may be designed into the system to accommodate workability on multi-level buildings. However, a minimum of 3/4" (19 mm) insulation board must be left after any grooves are cut. Refer to Sto Detail 1.03 in the Sto Information Manual.

5. “R” (rilled texture) finishes must be floated with a plastic trowel to achieve proper textures and avoid discoloration of the finish.

6. Avoid installing separate batches of finish side-by-side.

7. Interrupt application at natural breaks in construction: expansion joints, changes of plane, system terminations, etc.

NOTE: Weather conditions affect application and drying time. Hot or dry conditions limit working time and accelerate drying and may require adjustments in the scheduling of work to achieve desired results. Cool or damp conditions extend working time and slow down drying and may require added measures of protection against wind, dust, dirt, rain and freezing.

Floating or Spraying Textures
There are basically five different floating or spraying procedures using specific Sto finishes to produce five types of textures:

1. Pebbled Texture using Stolit®, StoSilco® Lit, or Sto Fine Sand and Sto Medium Sand. To achieve this texture, any of these finishes is applied to the wall to approximately the thickness of the aggregate in the finish. The finish is then scraped down to ensure it is no thicker than the largest aggregate size. Next, using a stainless steel trowel in a figure “8” motion, float the finish to disperse the aggregates evenly.

NOTE: A plastic float may be used to float the finish but the appearance may vary from a stainless steel float.

2. Rilled Pattern Texture using Stolit® R, StoSilco® Lit R, or Sto Swirl. Any of these finishes is applied to the wall to approximately the thickness of the largest aggregate in the finish. The finish is then scraped down to ensure it is no thicker than the largest aggregate size. Next, using a plastic float, float the finish in either a figure “8”, horizontal or vertical direction to produce the rills in the finish. When floating you can either float it immediately (wet float) or allow the finish to set a short time and float it (dry float). By allowing the finish to set and dry float, the finish will produce more flat areas (rills).

NOTE: After applying pebbled or rilled texture finishes, if the plastic or stainless steel float sticks to the finish, then too much finish is on the wall. Remove the excess finish by scraping with a stainless steel trowel down to the largest aggregate size. Then float the finish. This will save material and create a more uniform finish texture.

3. Freestyle Stucco Pattern Texture using Stolit® Freeform. This finish is applied to the wall in a uniform thickness and textured using a putty knife, sponge, trowel, brush or roller.

4. Limestone Finish Texture is accomplished by first installing Stolit® 1.0, then applying Stolit® Freeform in a tight coat on top of the dry Stolit® 1.0 with both products tinted to the same color.

5. Variegated Bead Texture using Sto Decocoat. This finish is applied to the wall to approximately 1-1/2 times the thickness of the bead in the finish. Next work the trowel in one direction to make the surface smooth. Press down firmly with the trowel held nearly flat. For spray application, spray in a circular motion with proper spray equipment to achieve a smooth, uniform coating. Adjust spray pressure and orifice to achieve desired texture.

6. Natural Stone Finish using Sto Granitex. This finish is applied to the wall by spray application in two coats. Apply the first coat moving the spray vertically and the second coat moving the spray horizontally to achieve full and uniform coverage to a thickness of not less than 1/8" (3.2mm). After the finish is dry, a sealer, Sto Clear Coat Sealer, is then applied over the entire surface by roller.

NOTE: When selecting a finish color always select a color with a lightness value of 20 or greater. The lightness value for each Sto color is printed on the Sto Color Chart. The use of dark color finishes (lightness value less than 20) over EIFS should be avoided because dark colors absorb light energy from the sun and heat up. This can cause EPS board deformation and delamination of the EIFS base coat/mesh from the surface. The surface temperature limit of EPS board is approximately 160°F (71°C).
**Sealants**

Wherever the insulation system or the EPS boards meet another material, i.e., door/window frame, roof, pipes, meter boxes, exterior faucets, etc., a minimum 1/2" (13mm) wide sealant joint must be provided.

To properly install sealant, you need to provide a joint between two materials. Sealant works like a rubber band or a shock absorber bonded between two surfaces, stretching back and forth as the two surfaces move.

There are two important factors to remember when applying sealant.

1. The sealant must bond to only two surfaces such as the coated EPS board edge and a window frame. It should never bond to a third surface such as the substrate. If you bond to the third surface, the "rubber band" will not be able to stretch back and forth and the sealant will crack.

2. There must be enough sealant material (minimum 1/2") (13 mm) to stretch, yet not too much material (maximum 1") (25 mm).

There is an easy way to solve both the above problems: use a closed cell "backer rod" material sized so that it can be pushed into the joint under compression. This will provide a backing to hold the size of the joint correctly and provide a third surface that the sealant will NOT bond to.

*NOTE: In some cases, the two surfaces to be sealed are not deep enough to allow a backer rod to be installed. In such cases "bond breaker" tapes are available that may be used in place of a backer rod.*

**Sealing Between EPS and Dissimilar Materials**

As you apply the EPS board, whenever you meet a dissimilar material as mentioned above, you should leave a space between the EPS and dissimilar material.

When sealing, the space between the EPS board and the dissimilar material should generally be a minimum of 1/2" (13 mm) but no larger than 1" (25 mm).

*NOTE: All edges to receive sealant must also be encapsulated with base coat and mesh. Whenever possible avoid installing finish in the joint. The preferred surface to seal to is the base coat, not the finish coat.*

**Expansion Joints**

Expansion joints are required in Sto EIF Systems at the following locations:

1. Floor lines in multi-level wood frame construction.
2. At dissimilar substrates, materials or construction.
3. Where joints already exist in the substrate or supporting construction.
4. At changes in building height, shape or structural system.
5. At other areas of anticipated movement.
6. Between pre-fabricated panels.

*NOTE: Use appropriate sealant/primer and backer rod following sealant manufacturer's recommendations to prevent water from getting into or behind the EIF system. Do not apply base coat/mesh or finish over the expansion joint. Whenever possible apply sealant to the EIFS base coat, not the finish coat.*
Sto EIFS NExT® Installation

Sto EIFS NExT® is the next generation of EIFS. It differs from traditional Class PB EIFS in that it adds a waterproofing/air barrier component on the substrate - Sto Guard®.

As a waterproofing/air barrier Sto Guard® is one component in the air barrier system and the moisture protection for the structure. Installation of the waterproofing/air barrier must be integrated with flashing and other air and moisture barrier components to ensure that where water is likely to penetrate the wall assembly, it will be drained to the exterior at the source of the leak. Proper air barrier connections and integration of the moisture barrier with flashing through sequencing of work and coordination of trades is necessary for a complete air barrier system and complete moisture protection (see Moisture Intrusion and Critical Details (page 28).

To install Sto Guard® over Exterior or Exposure 1 Plywood, Gypsum Sheathing in compliance with ASTM C 79, Glass Mat Faced Gypsum Sheathing in compliance with ASTM C 1177 and Fiber Reinforced Gypsum Sheathing Panels in compliance with ASTM C1278:

1. Protect rough openings, joints and parapets: apply joint treatment by trowel over rough openings, sheathing joints, inside and outside corners, and tops of parapets. Immediately embed reinforcing mesh in the wet joint treatment and trowel smooth. Embed minimum 4 inch (101 mm) wide mesh* at sheathing joints and minimum 9 inch (152 mm) wide mesh at rough openings, inside and outside corners and tops of parapets (refer to Sto detail 10.23a for detailed information on proper protection of rough openings and sequencing of work at rough openings).


3. Apply waterproof coating by roller over sheathing surface, including the dry joint treatment, to a uniform wet mil thickness of 10 mils in one coat. Use 1/2 inch (13 mm) nap roller for plywood and gypsum sheathing. Use 3/4 inch (19 mm) nap roller for glass mat faced gypsum sheathing. Protect from weather until dry.

4. Coordinate installation of connecting air barrier components with other trades to provide a continuous air tight membrane.

5. Coordinate installation of flashing and other moisture protection components with other trades to achieve complete moisture protection such that water is directed to the exterior, not into the wall assembly, and drained to the exterior at sources of leaks (windows, doors and similar penetrations through the wall assembly).

For Installation over Exposure 1 OSB (Oriented Strand Board) sheathing:

1. Apply waterproof coating with a 3/4 inch (19 mm) nap roller to sheathing surface to a uniform wet mil thickness of 10 mils. Protect from weather until dry. Then follow steps 1-5 above.

Note: windows and doors are typically installed immediately following installation of the air/moisture barrier and work should be sequenced accordingly. Consult with window manufacturer for installation requirements to maintain air barrier continuity and for head, jamb, sill flashing and perimeter sealant requirements.

Installation of Starter Track:

1. Strike a level line at the base of the wall to mark where the top of the starter track terminates.

2. Attach the starter track even with the line into the structure a maximum of 16 inches (406 mm) on center with the proper fastener: Type S-12 corrosion resistant screws for steel framing with minimum 3/8 inch (9 mm) penetration, and galvanized or zinc coated nails for wood framing with minimum 3/4 inch (19 mm) penetration. Attach between studs into sheathing as needed to secure the track flat against the wall surface. For solid sheathing attach directly into sheathing at 12 inches (305 mm) on center maximum.

3. Butt sections of starter track together. Miter cut outside corners and abut. Snip front flange of one inside corner piece (to allow EPS Board to be seated inside of track) and abut.

* Use Sto Guard® Mesh (self-adhesive), Sto Mesh, or Sto Detail Mesh for these applications.
Installation of splice strips for Starter Track and Flashing

1. Starter Track, Window/Door Head Flashing and Side Wall Step Flashing: install 2 inch (51 mm) wide diagonal splice strips of detail mesh at ends of head flashings. Install minimum 4 inch (100 mm) wide splice strips of detail mesh between back flange of starter track, head flashings and roof/side wall step flashing. Center the mesh so it spans evenly between the back flange of the Starter Track or flashing and the sheathing. Embed the mesh in the wet joint treatment and trowel smooth. Refer to Sto details 10.23b, 10.23c, 10.62a, 10.65a, and 10.70 for detailed illustrations of Sto Guard® installation.

2. Apply waterproof coating over the splice strip when the joint treatment is dry.

3. Allow waterproof coating to dry and install the EIF System with vertical ribbons of adhesive.
Failure Prevention
Moisture Intrusion and Critical Details

Most moisture intrusion problems do not occur because of material failures. They occur because of poorly designed or constructed details that allow water to enter walls rather than direct water to the exterior. To avoid costly water intrusion problems a few simple principles must be followed in the detailing of the construction. Many of these details rely on flashing to make a leakproof transition between abutting construction elements.

The following list of NEVERS was prepared from field experience and testing over the past 30 years. Observing these “rules” helps ensure successful, quality installations that are durable.

**General:**

1. Never deviate from published specifications.
2. Never apply Sto EIFS materials below 40°F (4°C).
3. Never mix additives such as rapid binders, anti-freeze accelerators, etc. to any Sto Materials under any circumstances.
4. Never use any material that has not been specified by Sto.
5. Never use products that have frozen. Never apply products on frozen surfaces.
6. Never apply adhesive (except Sto Flexyl or Sto BTS®-Silo Adhesive) directly on the substrate. Always apply adhesive to the back of the insulation boards.
7. Never use unapproved accessories.
8. Never apply a Sto System on horizontal weather exposed surfaces, or on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure. Minimum required slope is 1:2 (27 degrees) and Sto Flexyl with Sto Mesh embedded is required (refer to Sto details 1.04a & b). Protect large projecting EIFS features with flashing with drip edge.
9. Never use EIFS on low slope horizontal weather exposed surfaces, as a roof covering, in a pool, pond or other water-immersed condition, as an interior finish, or below grade (unless especially designed for use below grade).
10. Never slope EIFS trim or accents less than 27°.
11. Never incorporate a vapor retarder on the inside of walls in warm humid climates.
12. Never direct water from roofs, decks or leaking windows into or behind the Sto EIFS. Always direct water to the exterior beyond the face of the Sto EIFS through the proper use of flashing.
Insulation:
13. Never allow adhesives or base coats to fill joints between EPS boards. Always fill joints with insulation.

14. Never allow any open joints in the insulated wall system. Always fill voids with insulation.

15. Never penetrate the insulation system with any foreign materials, i.e., screws, nails, etc.

16. Never use EPS board larger than 2’ x 4’ (610 mm x 1,219 mm) or less than 3/4” (19 mm) thick.

17. Never use insulation board other than Sto specified board.

18. Never store EPS board on edge or in sunlight.

19. Never apply any products over loose EPS boards.

20. Never leave any areas of the insulation system open to penetration of water or moisture. Always protect edges of system with base coat/mesh, then use appropriate sealant.

21. Never rasp just the EPS board joints. Always rasp the entire wall surface.

22. Never allow EPS board joints to be in line with sheathing joints. Always bridge joints by a minimum of 6” (152 mm).

23. Never have less than 3/4” (19 mm) of EPS on the wall, especially when cutting aesthetic grooves.

Base Coat/Mesh:
24. Never leave any areas of EPS boards unprotected without mesh.

25. Never butt Sto Mesh. Always overlap it a minimum of 2-1/2” (64 mm).


27. Never allow mesh to protrude through base coat or finish. Always apply sufficient base coat to hide the mesh color.

28. Never apply any materials over a damp or frozen surface.

29. Never use only a single wrap of Sto Mesh on inside and outside corners. Always double wrap these areas or use Sto Corner Mat.

Finish Coat:
30. Never apply Sto Finishes thinner or heavier than recommended.

31. Never apply Sto Finishes in direct sunlight.


33. Never put finish over caulks or sealants.

34. Never put finish on horizontal weather exposed surfaces, below grade, or on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure.

35. Never use dark colors as the primary EIFS finish color.
Sto EIFS NExT® Systems

EIFS with Drainage

Sto Essence NExT®
1. Sto Guard®
2. Sto BTS®-Plus Adhesive
3. Sto EPS Insulation
4. Sto Mesh
5. Sto BTS®-Plus Base Coat
6. Sto Essence DPR Finish

10 year Warranty
The adhesive applied in vertical ribbons provides a cavity/drainage plane between the Sto Guard® protected sheathing and the insulation board.

Sto Classic NExT®
1. Sto Guard®
2. Sto BTS®-Plus Adhesive
3. Sto EPS Insulation
4. Sto Mesh
5. Sto BTS®-Plus Base Coat
6. Stolit® Finish

12 year Warranty
The adhesive applied in vertical ribbons provides a cavity/drainage plane between the Sto Guard® protected sheathing and the insulation board.

Sto Premier NExT®
1. Sto Guard®
2. Sto BTS®-Plus Adhesive
3. Sto EPS Insulation
4. Sto Mesh
5. Sto BTS®-Plus Base Coat
6. StoSilco® Lit Finish

15 year Warranty
The adhesive applied in vertical ribbons provides a cavity/drainage plane between the Sto Guard® protected sheathing and the insulation board.

Sto EIFS NExT® is the next generation of EIFS. It differs from traditional Class PB EIFS in that it adds a waterproofing/air barrier component on the substrate—Sto Guard®, which can be added to the Sto Essence, Classic and Premier EIF Systems. Sto Guard® consists of two components—joint treatment, Sto Gold Fill®, and waterproof coating—Sto Gold Coat®. When combined with starter track and vertical ribbons of adhesive, the system is designed to drain incidental moisture, and is classified as an EIFS with drainage.

The waterproofing protection provided by Sto Guard® protects wall sheathing against moisture damage during the construction process and in the event of a breach in the EIFS wall cladding while in service. It is not intended to correct faulty workmanship such as the absence or improper integration of flashing with the EIFS, nor is it intended to correct other defective components of construction such as windows that leak into the wall assembly. Flashing should always be integrated with the cladding to direct water to the exterior, not into the wall assembly, particularly at potential leak sources such as windows (see Moisture Intrusion and Critical Details).

As a component of an air barrier system Sto Guard® minimizes the risk of condensation within the building envelope by eliminating mass transfer of warm moisture laden interior air to the exterior. Typically an air barrier system is advantageous in cold climates to prevent the passage of moisture through the wall assembly where it can condense. A complete air barrier system consists of individual air barrier components and the connections between them. The air barrier components must be continuous to become an effective air barrier system. The design/construction professional must take material compatibility and construction sequencing into account when designing an "air tight" assembly to ensure continuity and long term durability. The effects of air tightness on mechanical ventilation should also be included in the overall project evaluation.

An air barrier should not be confused with a vapor retarder which may also be used in the wall assembly to retard water vapor diffusion and reduce the risk of condensation. Generally a vapor retarder is placed on the warm side of the wall. Specifically, it is placed on the interior side in cold climates. A vapor retarder may not be necessary depending on the wall components and the range of temperature/humidity conditions inside and outside. A vapor retarder should not be used on the inside of walls in warm humid climates.

Traditional or Class PB EIFS

Sto Essence
1. Sto Primer/Adhesive-B
2. Sto EPS Insulation Board
3. Sto Mesh
4. Sto Primer/Adhesive-B Base Coat
5. Sto Essence DPR Finish

5 year Warranty

Sto Classic
1. Sto BTS®-Plus Adhesive
2. Sto EPS Insulation Board
3. Sto Mesh
4. Sto BTS®-Plus Base Coat
5. Stolit® Finish

7 year Warranty

Sto Premier
1. Sto BTS®-Plus Adhesive
2. Sto EPS Insulation Board
3. Sto Mesh
4. Sto BTS®-Plus Base Coat
5. Stolit® Finish

10 year Warranty

The Sto Essence, Classic and Premier EIF Systems are five component exterior insulation and finish systems (EIFS) consisting of adhesive, insulation board, base coat, reinforcing mesh and finish coat. These components, when properly integrated with other components of construction, form a barrier wall which is intended to resist water penetration at its outer surface. A barrier wall is not designed to drain or eliminate moisture behind it. The accumulation of moisture behind the Sto Essence, Classic or Premier EIF Systems could result in building damage. As with any wall cladding, proper detailing and integration with other components of construction by a qualified design or construction professional, including the proper use of flashing, to prevent the accumulation of moisture within the wall assembly are essential. Sto Corp. assumes no liability for workmanship, design or engineering.
**Sto EIFS Products**

**Sto BTS® Plus**
A one-component, polymer-modified, cement-based material used as an adhesive and base coat in the Sto Classic and Sto Premier EIFS. It is self-gauging to help achieve correct base coat thickness in a single coat application. It is factory blended to ensure proper mix ratio.

**Sto BTS® Silo**
A one-component, polymer-modified, cement-based adhesive and base coat engineered for use in Sto EIFS with the StoSilo system equipment which mixes, pumps and sprays Sto BTS®-Silo. It is self-gauging to help achieve correct base coat thickness in a single coat application.

**Sto BTS® FastSet (a/k/a Sto FastSet Dry Adhesive/Base)**
A one-component, polymer-modified, cement-based adhesive and base coat for use in Sto EIFS. It is self-gauging to help achieve correct base coat thickness in a single coat application and it dries in less than half the time of conventional base coat materials under normal conditions.

**Sto Dispersion Adhesive**
A ready-mixed, acrylic-based adhesive used to attach Sto EPS Insulation Board to prepared sheathing in Sto EIFS.

**Sto Primer/Adhesive-B**
A one-component, polymer-modified, cementitious adhesive and base coat material that is factory blended to ensure proper mix ratio. It is used to attach Sto EPS Insulation Board to prepared sheathing, concrete or masonry substrates and as a base coat in Sto’s Essence System.

**Sto Primer/Adhesive**
An acrylic-based adhesive and base coat material that is mixed at the jobsite with Portland cement in equal parts by volume and used to attach Sto EPS Insulation Board to prepared sheathing, concrete or masonry substrates and as a base coat in Sto’s Essence System.

**Sto RFP**
A ready-mixed, acrylic-based material used as a base coat in Sto EIFS. It may be used as an alternative base coat to Sto BTS®-Plus in the Classic and Premier Systems. Eliminates risk of efflorescence.

**Sto Flexyl**
An acrylic-based, fiber-reinforced, flexible waterproofer combined with equal parts of Portland cement by weight. Sto Flexyl functions as an air and moisture barrier on concrete, masonry or gypsum based sheathing surfaces. It also functions as a waterproof base coat in Sto EIFS for use on properly sloped trim or accents and splash areas near grade.

**Sto Primer**
A ready-mixed, tinted acrylic primer for use as an undercoat with all Sto finishes to enhance color consistency, finish coverage, and finish coat adhesion, and to reduce the chance of efflorescence. Recommended beneath Stolit®, Sto Swirl, Stolit® .75, Stolit® 1.0, and Sto Fine Sand Finishes. Required beneath Sto Decocoat and Sto GraniTex. In most cases, Sto Primer is an optional component for use with Sto EIFS. The benefits of using Sto Primer far outweigh the small additional cost. Benefits of using Sto Primer include:

- Promotes uniform substrate absorption
- Improves finish coat adhesion
- Improves finish coat coverage
- Improves water resistance
- Reduces the chance of efflorescence
- Tinted to the same color as the finish to improve color uniformity

**Finishes**

**Stolit®:** A ready-mixed, acrylic-based integrally-colored textured wall coating used as a finish in Sto’s Classic System. Available in a wide variety of textures and in popular and custom colors, Stolit® provides a versatile decorative and protective outer layer. Enhanced by the addition of Optilink® advanced polymer technology, Stolit® exceeds the performance of competitor’s top-line finish products for higher levels of weather, fade, mildew and dirt pick-up resistance!

**Sto Essence DPR Finish:** A ready-mixed, acrylic-based, integrally-colored textured wall coating used as a finish in Sto’s Essence System. This attractive finish provides a versatile decorative and protective outer layer and meets industry performance standards. Sto Essence Finish comes in popular and custom colors, and in three textures: Swirl, Medium Sand and Fine Sand.

**StoSilco® Lit:** A ready-mixed, acrylic-based, silicone-enhanced, integrally-colored textured wall coating used as finish coat in Sto’s Premier System. The water-resistant qualities of silicone are well known and widely used in a variety of construction products. Incorporating these benefits and adding Optilink® advanced polymer technology into StoSilco® Lit yields a finish with superior levels of water resistance, durability, water vapor permeance, and superior resistance to UV, to dirt pick-up, and mildew/algae growth for lowest maintenance and longest service life.

**FastSet Technology**
Sto has developed fast-setting Sto 1/2 Time products that can reduce installation time significantly and facilitate installation of EIFS in cold or damp seasons and climates.
**StoSilco® - Silicone-Enhanced Coatings and Finishes**
Advanced science that defies the elements.

There is only one proven way to protect a building from common, accumulating environmental hazards that can cause deterioration: coat it with a finish material that prevents damage from the onset.

**StoSilco® -** Sto technologically advanced, silicone-enhanced coatings are precisely engineered to do exactly that. Water-based, environmentally safe silicone-enhanced finishes and coatings, StoSilco® products outperform ordinary acrylics in every important category, and protect buildings like no other coatings.

**StoSilco® Products**
StoSilco® products ensure a better-looking, better-protected building with less need for cleaning and recoating. And with costs comparable to those of high-quality non-silicone acrylics, StoSilco® products promise unprecedented long-term value.

- Superior weather resistance, water-repellent
- Superior vapor permeability, breathability
- Superior resistance to dirt pick-up, mildew and algae
- Superior UV resistance
- Superior durability; less deterioration

**Average Coverages for Sto EIFS Products**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CONDITIONERS</th>
<th>PACKAGE</th>
<th>SMOOTH SURFACE</th>
<th>TEXTURED SURFACE</th>
<th>OVERLAP 2.5&quot;</th>
<th>WEIGHT</th>
<th>ROLL SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>Sto Primer</td>
<td>5 gal. pail</td>
<td>1050-1100 ft²</td>
<td>750-850 ft² depending upon application technique</td>
<td>50-60 ft² @ 1/8&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>831</td>
<td>Sto Plex W</td>
<td>5 gal. pail</td>
<td>1150-1200 ft²</td>
<td>850-950 ft² depending upon application technique</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>244</td>
<td>Sto Leveler</td>
<td>60 lb. bag</td>
<td>N/A</td>
<td>50-60 ft² @ 1/8&quot;</td>
<td></td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ADHESIVES</th>
<th>PACKAGE</th>
<th>SHEATHING OR SMOOTH CONCRETE</th>
<th>IRREGULAR BLOCK, CONCRETE, BRICK</th>
<th>1/2 TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>727</td>
<td>Sto BTS®-Plus</td>
<td>60 lb. bag</td>
<td>150-170 ft² (1/2&quot; Trowel)</td>
<td>120-130 ft² (5/8&quot; Trowel)</td>
<td></td>
</tr>
<tr>
<td>101</td>
<td>Sto Primer/Adhesive-B</td>
<td>50 lb. bag</td>
<td>115-125 ft² (1/2&quot; Trowel)</td>
<td>90-100 ft² (5/8&quot; Trowel)</td>
<td></td>
</tr>
<tr>
<td>829</td>
<td>Sto Dispersion Adhesive</td>
<td>5 gal. pail</td>
<td>350-385 ft² (3/16&quot; Trowel)</td>
<td>Not Recommended</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>Sto Primer/Adhesive-B</td>
<td>5 gal. pail</td>
<td>240-250 ft² (1/2&quot; Trowel)</td>
<td>220-230 ft² (5/8&quot; Trowel)</td>
<td></td>
</tr>
<tr>
<td>727</td>
<td>Sto BTS® Silo</td>
<td>60 lb. bag</td>
<td>150-170 ft² (1/2&quot; Trowel)</td>
<td>120-130 ft² (5/8&quot; Trowel)</td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>Sto Flexyl</td>
<td>5 gal. pail</td>
<td>100-110 ft² (Flat Trowel)</td>
<td>80-90 ft² (Flat Trowel)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>BASE COATS</th>
<th>PACKAGE</th>
<th>EPS SURFACE WITH STANDARD MESH</th>
<th>SHEATHING OR MASONRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>Sto RFP</td>
<td>5 gal. pail</td>
<td>120-130 ft²</td>
<td>110-120 ft²</td>
</tr>
<tr>
<td>101</td>
<td>Sto Primer/Adhesive-B</td>
<td>50 lb. bag</td>
<td>105-115 ft²</td>
<td>100-110 ft²</td>
</tr>
<tr>
<td>100</td>
<td>Sto Primer/Adhesive-B</td>
<td>5 gal. pail</td>
<td>200-210 ft²</td>
<td>180-190 ft²</td>
</tr>
<tr>
<td>235</td>
<td>Sto Flexyl</td>
<td>5 gal. pail</td>
<td>170-180 ft²</td>
<td>150-160 ft²</td>
</tr>
<tr>
<td>200</td>
<td>Sto Toughwall®</td>
<td>60 lb. bag</td>
<td>20-30 ft²</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>BASE COATS</th>
<th>PACKAGE</th>
<th>EPS SURFACE WITH STANDARD MESH</th>
<th>SHEATHING OR MASONRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>727</td>
<td>Sto BTS®-Plus</td>
<td>60 lb. bag</td>
<td>140-160 ft²</td>
<td>120-140 ft²</td>
</tr>
<tr>
<td>225</td>
<td>Sto RFP</td>
<td>5 gal. pail</td>
<td>85-100 ft²</td>
<td>85-100 ft²</td>
</tr>
<tr>
<td>101</td>
<td>Sto Primer/Adhesive-B</td>
<td>50 lb. bag</td>
<td>85-95 ft²</td>
<td>75-85 ft²</td>
</tr>
<tr>
<td>100</td>
<td>Sto Primer/Adhesive-B</td>
<td>5 gal. pail</td>
<td>165-175 ft²</td>
<td>145-155 ft²</td>
</tr>
<tr>
<td>727</td>
<td>Sto BTS® Silo</td>
<td>60 lb. bag</td>
<td>140-160 ft²</td>
<td>120-140 ft²</td>
</tr>
<tr>
<td>200</td>
<td>Sto Toughwall®</td>
<td>60 lb. bag</td>
<td>20-30 ft²</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ADH/BASE COAT</th>
<th>PACKAGE</th>
<th>SHEATHING OR MASONRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>727</td>
<td>Sto BTS®-Plus</td>
<td>60 lb. bag</td>
<td>65-85 ft²</td>
</tr>
<tr>
<td>728</td>
<td>Sto FastSet Dry Adhesive/Base</td>
<td>60 lb. bag</td>
<td>65-85 ft²</td>
</tr>
<tr>
<td>101</td>
<td>Sto Primer/Adhesive-B</td>
<td>50 lb. bag</td>
<td>55-70 ft²</td>
</tr>
<tr>
<td>100</td>
<td>Sto Primer/Adhesive-B</td>
<td>5 gal. pail</td>
<td>95-115 ft²</td>
</tr>
<tr>
<td>727</td>
<td>Sto BTS® Silo</td>
<td>60 lb. bag</td>
<td>65-85 ft²</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>1/2 TIME PRODUCTS</th>
<th>PACKAGE</th>
<th>VARIOUS COVERAGE INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>728</td>
<td>Sto FastSet Dry Adhesive/Base</td>
<td>60 lb. bag</td>
<td>65-85 ft² as combined adhesive/base coat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FINISHES</th>
<th>PACKAGE</th>
<th>RFP OR PRIMED SURFACE</th>
<th>UNPRIMED SMOOTH SURFACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Stolit® 1.0</td>
<td>5 gal. pail</td>
<td>155-165 ft²</td>
<td>140-155 ft²</td>
</tr>
<tr>
<td>131</td>
<td>Stolit® 1.5</td>
<td>5 gal. pail</td>
<td>135-145 ft²</td>
<td>120-130 ft²</td>
</tr>
</tbody>
</table>
### EIFS Industry Adhesives Coverage

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>LBS/PAIL</th>
<th>TROWEL WIDTH</th>
<th>TROWEL HEIGHT</th>
<th>SPACE BETWEEN NOTCHES</th>
<th>SF/PAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sto Dispersion Adhesive</td>
<td>64</td>
<td>3/16&quot;</td>
<td>3/8&quot;</td>
<td>1-3/4&quot;</td>
<td>350</td>
</tr>
<tr>
<td>Dryvit ADEPS</td>
<td>60</td>
<td>3/8&quot;</td>
<td>1/2&quot;</td>
<td>1-1/2&quot;</td>
<td>210</td>
</tr>
<tr>
<td>Senergy Senerquick</td>
<td>50</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
<td>275</td>
</tr>
<tr>
<td>Parex 3.03</td>
<td>60</td>
<td>5/16&quot;</td>
<td>5/16&quot;</td>
<td>3/4&quot;</td>
<td>270</td>
</tr>
</tbody>
</table>

### Metric Conversions

- ft. to m, multiply by 0.3048
- in. to mm, multiply by 25.4
- gal. to liters (L), multiply by 3.78541
- lbs. to kg, multiply by 0.453592
- ft² to m², multiply by 0.09290304

### Where to find help:
- Visit Sto's Web site: [www.stocorp.com](http://www.stocorp.com)
- Technical Service Hotline: 1-800-201-2397
- Your local Sto Distributor
- Your Sto Sales Representative

### Sto Lime Icem Finish

- 141 Stolit® R1.5  5 gal. pail  145-155 ft²  135-145 ft²
- 156 Stolit® Freeform  5 gal. pail  130 ft² @ 1/16"  65 ft² @ 1/8"  40 ft² @ 3/16"
  - Approx. 10% less
- 307 Sto Swirl Finish  5 gal. pail  130-140 ft²  120-130 ft²
- 306 Sto Medium Sand Finish  5 gal. pail  120-130 ft²  110-120 ft²
- 310 Sto Fine Sand Finish  5 gal. pail  150-160 ft²  140-150 ft²
- 136 StoSilco® Lit 1.0  5 gal. pail  155-165 ft²  145-155 ft²
- 137 StoSilco® Lit 1.5  5 gal. pail  135-145 ft²  120-130 ft²
- 138 StoSilco® Lit R1.5  5 gal. pail  145-155 ft²  135-145 ft²

### Sto Lime Icem Finish - Coverage

- 119 Sto Decocote  5 gal. pail  125 ft² sprayed  135 ft² troweled
- 171 Sto GraniTex  5 gal. pail  60-80 ft²  Not Recommended
- 132 Stolit® 2.0  5 gal. pail  90-100 ft²  75-85 ft²
- 135 Stolit® 3.0  5 gal. pail  60-70 ft²  55-65 ft²
- 142 Stolit® R2.0  5 gal. pail  90-100 ft²  85-95 ft²
- 143 Stolit® R3.0  5 gal. pail  60-70 ft²  55-65 ft²
- 175 Stolit® .75  5 gal. pail  180-190 ft²  170-180 ft²

### Sto Lime Icem Finish - Instructions

- Sto Limestone finish is achieved in a two step application - first a finish coat of Stolit® 1.0, then a finish coat of Stolit® Freeform, installed "tight" over the dried Stolit® 1.0

### Sto Lime Icem Finish - Packaging

- 119 Sto Decocote  5 gal. pail  125 ft² sprayed  135 ft² troweled
- 171 Sto GraniTex  5 gal. pail  60-80 ft²  Not Recommended
- 132 Stolit® 2.0  5 gal. pail  90-100 ft²  75-85 ft²
- 135 Stolit® 3.0  5 gal. pail  60-70 ft²  55-65 ft²
- 142 Stolit® R2.0  5 gal. pail  90-100 ft²  85-95 ft²
- 143 Stolit® R3.0  5 gal. pail  60-70 ft²  55-65 ft²
- 175 Stolit® .75  5 gal. pail  180-190 ft²  170-180 ft²

Note: Coverage rates are based upon actual field experience and are believed to be reliable. Please be advised that coverage rates can vary based upon the type of application methods employed and level of craftsmanship. Sto Corp. hereby disclaims any and all liability for rates of coverage which may differ from those published herein.
The StoSilo System was introduced in Europe in the mid 1990's. In that short time, it has revolutionized the application of EIFS adhesives and base coats. Now the StoMachine Technology Program is bringing this unique technology to North America, giving customers a competitive edge by shortening the length of time on jobs and reducing labor costs.

The StoSilo Combo consists of a dry material hopper, an integral continuous mixer, and variable speed pump. The remote control pump allows the person at the spray nozzle to be in full control of the machine up to 210 feet (64 m) away. No one is needed to attend the machine or hand mix pails of material.

The StoSilo Combo comes in two sizes: 1.0 m³ and 3.0 m³. The 1.0 m³ StoSilo holds approximately, 40 x 60-lb (27 kg) bags of Sto BTS® Silo, while the 3.0 m³ StoSilo holds approximately, 120 x 60-lb (27 kg) bags of material. Sto BTS Silo is a specially engineered material developed for use with the StoSilo System.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>One self-contained system</td>
<td>Easy to handle; saves time and space in loading</td>
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<tr>
<td>Large dry storage capacity</td>
<td>Reduces need to handle or move bags</td>
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<tr>
<td>Weathertight, secure storage container</td>
<td>Reduces material loss due to weather conditions or theft</td>
</tr>
<tr>
<td>Totally automated system</td>
<td>Reduces labor costs; enhances quality control</td>
</tr>
<tr>
<td>Spray application of adhesive and base coat</td>
<td>Increases productivity</td>
</tr>
<tr>
<td>Adhesive/base coat formulated and tested for StoMachine Technology</td>
<td>Optimum material consistency for spraying</td>
</tr>
<tr>
<td>Variable speed settings</td>
<td>Provides flexibility for specific job conditions</td>
</tr>
<tr>
<td>Continuously controlled water addition</td>
<td>Consistent mix every time</td>
</tr>
<tr>
<td>Single source supply for equipment</td>
<td>Streamlines set-up and production; no need to deal with multiple organizations</td>
</tr>
<tr>
<td>Quick change components</td>
<td>Reduces down-time for part changes</td>
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</tbody>
</table>

Three StoSilo Packages Available

The StoMachine Technology Program offers short-term and long-term leases on three different StoSilo packages to fit your specific job site needs. If problems do occur, call the StoMachine Technology Helpline: (888)-522-0184 available 8 a.m.- 5 p.m. (EDT) for operational assistance by a StoMachine Technology technician. If there is no answer, leave a message and calls will be returned within one hour during hours of operation or normal business hours.

StoSilo Mobile
Includes the StoSilo Combo, air compressor, water pump and generator mounted on a truck with one ton (907) kg) of towing capacity” TO “3/4 ton or larger truck with a Class III towing package equipped with electric brakes; a 2-15/16” ball is required.

The StoSilo Finish Hopper is a galvanized aluminum hopper that may be used with the StoSilo pump to spray various Sto “bucket” products (see product-equipment matrix for specific products). The StoSilo Finish Hopper is attached to the StoSilo pump drawer and allows spraying of some products up to 210 feet.
### StoSilo Comparative Job Data

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Project Location</th>
<th>Project Size (SF)</th>
<th>Compare YOUR numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Church Building</td>
<td>L-shaped two story church building with partial one-story elevation. Medallions around windows and doors.</td>
<td>Shawnee, Kansas</td>
<td>20,000 (SF)</td>
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<tr>
<td>Hotel</td>
<td>28’ tall L-shaped hotel with windows and seven 150 ft² gables</td>
<td>Chicago, Illinois</td>
<td>27,500 (SF)</td>
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</tr>
</tbody>
</table>

| Crew Size: | 6 | 5 | 4 | 4 |

**Adhesive**
- Square feet (ft²) per man per day: 450 | StoSil System Tech: 1,000 | 2,700 | 5,000 | 1,600 | 4,000 | 7 | 4 | 17 | 7 |
- Production per day (ft²) (crew size * ft²/man/day): 400 | 1,000 | 1,600 | 4,000 | 7 | 4 | 17 | 7 |
- Number of production days (project size / daily production): 20,000 (SF) / 400 (man) = 50 days 27,500 (SF) / 1,600 (man) = 17 days

**Base Coat**
- Square feet (ft²) per man per day: 450 | StoSil System Tech: 1,000 | 2,700 | 5,000 | 1,600 | 4,000 | 7 | 4 | 17 | 7 |
- Production per day (ft²) (crew size * ft²/man/day): 400 | 1,000 | 1,600 | 4,000 | 7 | 4 | 17 | 7 |
- Number of production days (project size / daily production): 20,000 (SF) / 400 (man) = 50 days 27,500 (SF) / 1,600 (man) = 17 days

**Adhesive + Basecoat Totals**
- Adhesive Production Days: 7 | 4 | 17 | 7 |
- Base Coat Production Days: 7 | 4 | 17 | 7 |
- Total BC + ADH Production Days: 14 | 8 | 34 | 14 |
- Total BC + ADH Man Hours (crew size * prod days * 8 hrs): 672 | 320 | 1,088 | 448 |
- Average Man Cost Per Hour (wages, benefits, comp, etc): $35 | $35 | $48 | $48 |
- Total Labor Costs (Total Man Hours * Man Cost Per Hour): $23,520 | $11,200 | $52,224 | $21,504 |
- LABOR SAVINGS: $12,320 | $33,720 |

### Portable Equipment

#### Sto M-8 Spray Pump
The Sto M-8 Spray Pump reduces the amount of labor required to hand-apply basecoats, adhesives, primers, coatings and finishes. Additionally, the Sto M-8 contains a technologically advanced and patented peristaltic pump. The advantage: rhythmic, wavelike motion of the pressure disc allows for the pumping of low- and high-viscosity materials. Its lightweight and portable frame can be moved quickly and used on interior and exterior applications.

**Features**
- Versatile, spray application of most Sto products
- Portable and lightweight
- Optional mobile cart
- Operates on 110V power
- Reversible pump
- Low maintenance
- Remote control On/Off at nozzle
- Various hose lengths
- Interchangeable accessory parts with the StoSilo
- Multiple accessory kits available; various tips and hose sizes
- Power Roller optional attachment
- Easy clean-up

**Benefits**
- Reduces labor; one pump for many products
- Use interior and exterior
- Additional ease of movement around job sites
- Variable pressure setting
- Reduces pressure in hose safely when needed
- Little to no downtime
- Eliminates need to tend the pump
- Configures hose as needed; eliminates staging on scaffolding
- Versatile for different job and product applications
- Roll smooth coatings with continuous material flow
- Reduces time and labor

#### Sto S-25 Continuous Mixer
The S-25 is a continuous, horizontal flow mixer. This easy-to-use piece of equipment is portable so applicators can work smarter, not harder.

**Features**
- Sensor system and shut-off as needed
- Automatic metering system
- Clear water tube
- 220V single phase requirements
- 5-bag capacity
- Only 2 components require cleaning

**Benefits**
- Mixes on demand; automatic filling
- Controls water flow with instant shut-off
- Allows easy visual checking for water addition
- Energy efficient; no special electrical requirements
- Less time required to load
- Portable; easily moved by one worker, less likelihood of injury
- Easy clean-up within minutes
The following chart provides general guidance for selection of spraying equipment to be used with Sto products. Because all spray application projects are different, we cannot recommend a specific orifice size or pressure setting for each material. Test areas are always recommended to be sure of desired results.

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<th>Product</th>
<th>Conditioners</th>
<th>Adhesives</th>
<th>Base Coats</th>
<th>Finishes</th>
<th>Coatings</th>
<th>Waterproofing/Air Barriers</th>
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</tr>
</tbody>
</table>
|         | Sto Primer | Sto Primer | Sto Primer | Sto Prime
### Sto Power Rasp

Compared to manually rasped walls, Sto Power Rasp rasps walls smoother, reducing critical sunlight effects. In addition, this revolutionary system may increase productivity up to three times over conventional rasping, decreasing time spent on jobs and worker fatigue; increasing labor savings and reducing potential injury claims.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Speed</td>
<td>Allows user to vary working speeds</td>
</tr>
<tr>
<td>Counter rotating rasping discs</td>
<td>Provides clean cutting action</td>
</tr>
<tr>
<td>Lightweight and efficient system</td>
<td>Decreases user fatigue and increases productivity up to three or four times compared to manual rasps</td>
</tr>
<tr>
<td>Assorted rasping disks available</td>
<td>Multiple uses for Sto Power Rasp</td>
</tr>
</tbody>
</table>

### StoVac

This vacuum backpack attachment removes loose rasping residue for better adhesion while providing active environmental protection by taking EPS particles out of the air.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum attachment</td>
<td>Removes all loose rasping residue for better adhesion and keying</td>
</tr>
<tr>
<td>Active environmental protection</td>
<td>No airborne EPS particulates</td>
</tr>
<tr>
<td>110V power requirement with plug for Sto Rasp on StoVac</td>
<td>Both units require only one extension cord with standard 110V power</td>
</tr>
<tr>
<td>Reusable cloth vacuum bag</td>
<td>Eliminates costly disposal of paper bags</td>
</tr>
<tr>
<td>Optional 55-gallon capacity vacuum</td>
<td>Increases capacity and vacuum distance from rasp up to 100 feet</td>
</tr>
</tbody>
</table>

---

**Notes:**

1. If the Sto product that interests you does not appear above, it is not currently recommended for mixing or spraying applications.
2. “Yes” – mixing and/or spraying the subject product with this type of equipment is possible. “Recommended” - this equipment is the best choice for mixing and/or spraying the product. “NR” – this equipment is not recommended for mixing and/or spraying this product.
3. We cannot recommend specific orifice sizes and pressure settings because they will vary with the equipment being used and the desired finished appearance. We suggest preparing a test area for review using the equipment, materials and methods proposed for the job.
4. Specific questions about use of the Sto M-8 Spray Pump, the Sto S-25 Continuous Mixer and the StoSillo Combo should be directed to the StoMachine Technology group at (888) 522-0184.
5. Sto BTS® - FastSet is a/k/a Sto FastSet Dry Adhesive/Base.
Sto Jet Mixer Technology
Provides Fast Delivery of Finishes

Most Sto Distributors now have the Sto Jet Mixer Technology Program:

- On-site color mixing for finishes
- Pre-programmed with Sto color formulations for exact pigment dispensing
- Patented mixing cups produce smooth, even blend
- Internet tint formula access
- Better system than competitors’ mixing systems
- Result – faster delivery, more accurate color

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 85,000 color formulas immediately available for point of sale tinting via Distributor Internet Tint Formula Access</td>
<td>Correct color when you need it</td>
</tr>
<tr>
<td>Half gallon sample program</td>
<td>Fast point of sale sample production</td>
</tr>
<tr>
<td>Custom color formulas</td>
<td>Developed and furnished same or next day</td>
</tr>
<tr>
<td>Utilization of Sto Corp. Distributor Tinting Application</td>
<td>An easy-to-use custom computer program developed to manage point of sale color (via the internet)</td>
</tr>
<tr>
<td>Centralized automated color lab</td>
<td>Over 60 years of combined color formulation experience</td>
</tr>
</tbody>
</table>
### Average Labor Production

**Sto Product:**

<table>
<thead>
<tr>
<th>Adhesives/Fasteners</th>
<th>Production (1 man per 8 hr. day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sto BTS-Plus® w/EPS boards</td>
<td>400 sq. ft. (37.2 sq. m)</td>
</tr>
<tr>
<td>Sto Dispersion Adhesive w/EPS Boards</td>
<td>700 sq. ft. (65.0 sq. m)</td>
</tr>
<tr>
<td>Sto Flexyl w/Extruded Boards</td>
<td>500 sq. ft. (46.5 sq. m)</td>
</tr>
</tbody>
</table>

| Base Coat: |
|---------------------|----------------------------------|
| Sto Base Coat: Sto RFP and Sto Mesh | 500 sq. ft. (46.5 sq. m) |
| Sto Base Coat: Sto BTS®-Plus and Sto Mesh | 400 sq. ft. (37.2 sq. m) |
| Sto Base Coat: Sto RFP and Sto Armor Mat | 400 sq. ft. (37.2 sq. m) |
| Sto Base Coat: Sto BTS®-Plus and Sto Armor Mat | 350 sq. ft. (32.5 sq. m) |

| Finishes |
|---------------------|----------------------------------|
| StoSilco® Lit 1.0, Sto Fine Sand | 900 sq. ft. (83.6 sq. m) |
| StoSilco® Lit 1.5, Sto Medium Sand | 800 sq. ft. (74.3 sq. m) |
| StoSilco® Lit R 1.5, Sto Swirl | 800 sq. ft. (74.3 sq. m) |
| Sto Decocoat | 700 sq. ft. (65.0 sq. m) |
| Sto Decocoat | 600 sq. ft. (55.7 sq. m) |
| Sto Decocoat | 600 sq. ft. (55.7 sq. m) |
| Sto Decocoat | 800 sq. ft. (74.3 sq. m) |

| Miscellaneous |
|---------------------|----------------------------------|
| Roller applied paints, primers, sealers | 1600 sq. ft. (148.6 sq. m) |
| Fill & rasping | 900 sq. ft. (83.6 sq. m) |

### Estimator Checklist

**Job ______________________ Date ____________________**

**Estimator __________________**

- [ ] Removal of trees, shrubs, etc.
- [ ] Ground coverings
- [ ] Excavation/leveling of terrain
- [ ] Scaffolding & Setup
- [ ] Demolition
- [ ] Chipping or scraping substrate
- [ ] Sandblasting
- [ ] Cleaning
- [ ] Masking
- [ ] Tenting
- [ ] Heating
- [ ] Sto Plex W
- [ ] Leveling w/ _____________
- [ ] Moisture Protection
- [ ] Backwrapping
- [ ] Fastening w/ _____________
- [ ] Insulation
- [ ] Fill & Rasp
- [ ] Rout Grooves
- [ ] Sto Base Coat w/ _____________
- [ ] Sto Armor Mat
- [ ] Sto Mesh
- [ ] Sto Primer
- [ ] Caulking (Dissimilar Mat.)
- [ ] Sto Finish
- [ ] Expansion Joints
- [ ] Windowsill Flashing
- [ ] Parapet Top Flashing
- [ ] Cleanup
- [ ] Shipping
### Sto EIFS Installation Inspection Checklists

**Job Name ________________________________**

**Location ______________________________**

<table>
<thead>
<tr>
<th>No.</th>
<th>Inspection Item Description</th>
<th>Conformance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Pre-Construction</strong></td>
<td>Yes  No</td>
</tr>
<tr>
<td>1</td>
<td>Terminations at grade</td>
<td>Yes  No</td>
</tr>
<tr>
<td>2</td>
<td>Ultra-High impact resistance</td>
<td>Yes  No</td>
</tr>
<tr>
<td>3</td>
<td>Window and door sill flashing</td>
<td>Yes  No</td>
</tr>
<tr>
<td>4</td>
<td>Window and door head flashing</td>
<td>Yes  No</td>
</tr>
<tr>
<td>5</td>
<td>Roof/Wall diverter flashing</td>
<td>Yes  No</td>
</tr>
<tr>
<td>6</td>
<td>Saddle Flashing</td>
<td>Yes  No</td>
</tr>
<tr>
<td>7</td>
<td>Location of expansion joints</td>
<td>Yes  No</td>
</tr>
<tr>
<td>8</td>
<td>Slope and thickness of trim and features</td>
<td>Yes  No</td>
</tr>
<tr>
<td>9</td>
<td>Parapet or eave condition</td>
<td>Yes  No</td>
</tr>
<tr>
<td>10</td>
<td>Expansion joints with sealant and sealant at all penetrations and attachments through system</td>
<td>Yes  No</td>
</tr>
</tbody>
</table>

**Site Conditions**

<table>
<thead>
<tr>
<th>No.</th>
<th>Inspection Item Description</th>
<th>Conformance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Material Storage-- verify adequacy of material storage areas and that materials are properly stored.</td>
<td>Yes  No</td>
</tr>
<tr>
<td>2</td>
<td>Substrate--verify that the substrate is correct, substrate condition is clean, dry, free from defects, in plane, and verify substrate installation and attachment in conformance with manufacturer’s recommendations.</td>
<td>Yes  No</td>
</tr>
</tbody>
</table>

**Moisture Protection**

<table>
<thead>
<tr>
<th>No.</th>
<th>Inspection Item Description</th>
<th>Conformance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3a</td>
<td>Verify protection of rough openings in conformance with Sto Details 1.23a and 1.24a.</td>
<td>Yes  No</td>
</tr>
<tr>
<td>3b</td>
<td>Sto Guard®--verify protection of rough openings in conformance with Sto Detail 10.23a. Note if any areas of sheathing are not covered with Sto Gold Coat®.</td>
<td>Yes  No</td>
</tr>
<tr>
<td>3c</td>
<td>Building Paper-- verify protection of rough openings in conformance with Sto Details 8.23 or 9.23.</td>
<td>Yes  No</td>
</tr>
<tr>
<td>3d</td>
<td>House Wrap-- verify protection of rough openings in conformance with Sto Details 8.23 or 9.23. Verify installation of house wrap in conformance with manufacturer’s instructions.</td>
<td>Yes  No</td>
</tr>
<tr>
<td>4</td>
<td>Flashing-- note critical flashing locations on the structure and verify that flashing is present. Verify that flashing end dams are incorporated into the flashing material beneath windows and doors.</td>
<td>Yes  No</td>
</tr>
</tbody>
</table>

**Inspection Item Description**

<table>
<thead>
<tr>
<th>No.</th>
<th>Inspection Item Description</th>
<th>Conformance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EIFS Installation</td>
<td>Yes  No</td>
</tr>
<tr>
<td>2</td>
<td>Adhesive Installation</td>
<td>Yes  No</td>
</tr>
<tr>
<td>3</td>
<td>EPS Board Installation</td>
<td>Yes  No</td>
</tr>
<tr>
<td>4</td>
<td>Base Coat and Mesh Installation</td>
<td>Yes  No</td>
</tr>
<tr>
<td>5</td>
<td>Primer Application</td>
<td>Yes  No</td>
</tr>
<tr>
<td>6</td>
<td>Finish Application</td>
<td>Yes  No</td>
</tr>
</tbody>
</table>

**Notes**

- EIFS Installation: 
  - Backwrapping-- verify the presence and attachment of backwrap reinforcing mesh (Sto Detail Mesh) at system terminations prior to the application of EPS board.

- Adhesive Installation: 
  - Verify application of adhesive in the proper direction with proper size notched trowel.

- EPS Board Installation: 
  - Verify minimum 6" overlap of sheathing joints.

- Base Coat and Mesh Installation: 
  - Verify full embedment of backwrap reinforcing mesh along edges - no voids, or mesh color visible.

- Primer Application: 
  - Verify complete coverage of base coat with primer.

- Finish Application: 
  - Verify finish application in advance of direct sunlight exposure, working a wet edge toward unfinished area.
Technical Support

To better serve the industry with technical assistance in design and application, Sto Corp. has set up a network of technicians experienced and trained in all aspects of Sto Products and systems. These technicians are employed by Sto Corp. and are available to assist you. For the number of the technician in your area, contact your local Sto Distributor or call 1-800-221-2397 (Atlanta, Georgia).

www.stocorp.com Features
An easy to use reference source for the building professional to view, download and print:

- System guide specifications
- Guide detail drawings
- Building Code Approvals
- Product bulletins
- Tech Hotlines
- Material Safety Data Sheets (MSDS)
- Distributor locations
- Company information
- Color selection charts

Sto Electronic Submittal System (ESS)
- Prepare a complete submittal package
  Including systems and product information;
  Optional inclusion of Specification, Warranty Schedule, Sample Warranty