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RENDERED TO

LOGIX INSULATED CONCRETE FORMS LTD.
2755 Columbia St.
Vancouver, BC
V5Y 3G4

PRODUCT EVALUATED: Logix Insulated Concrete Forms
with Sto Cladding System
EVALUATION PROPERTY: CAN/ULC S101-04

**Engineering Evaluation of Logix Insulated Concrete Forms with
Sto Cladding System for compliance with the applicable
requirements of the following criteria: CAN/ULC S101-04, Fire
Endurance Tests of Building Construction and Materials**

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1 Introduction

Intertek Testing Services NA (Intertek) has conducted an engineering evaluation for Logix, on Insulating Concrete Forms (ICF), to evaluate fire resistance. The evaluation was conducted to determine if the Sto Intertek Listed cladding product will maintain compliance with CAN/ULC S101-04, "*Fire Endurance Tests of Building Construction and Materials*" when installed on the Logix ICF product.

2 Sample and Assembly Description

The ICFs are used as pour-in-place formwork for structural concrete which consist of expanded polystyrene (EPS) foam plastic panels and plastic webs. The ICF consists of rigid interlocking expanded polystyrene (EPS) foam plastic boards that serve as permanent formwork for reinforced concrete, exterior and interior walls, and foundation and retaining walls. The polypropylene webs are spaced at 8 inches apart and maintain the EPS board facings at a fixed distance of 4 inches, 6.25 inches, 8 inches or 10 inches. The standard forms are 16 inches high by 48 inches long. The expanded polystyrene foam plastic complies with ASTM C578-05 as Type II product.

3 Reference Documents

- CAN/ULC S101-04, "*Fire Endurance Tests of Building Construction and Materials*"
- Intertek Design Listing – Sto "Wall Exterior Insulation & Finish Systems (EIFS)"
- Intertek Design Listing – Sto "EIFS Category 2"

4 Evaluation Method

The Logix ICFs are 2-3/4" in thickness with a density of 1.45 pcf and are classified as a Type II material in accordance with ASTM C578-08.

When evaluating an EIFS product installed over a foam insulation board, the property of concern is its contribution to fuel loading. Since polystyrene is a highly flammable material, by increasing the amount of polystyrene in the wall system there is a higher chance the polystyrene will ignite and cause the EIFS system to fall off and fail the 15 minute stay-in-place test.

By calculation, a 1 foot by 1 foot square of EPS has the following fuel contribution:

$$1.45 \frac{lb}{ft^3} \times 2.75in \times \frac{1ft}{12in} \times 1ft^2 = 0.333lb$$

This calculation multiplied the EPS density by the thickness for a 1 foot by 1 foot square. In order for the Logix material to be eligible for installation with the Sto cladding product, the fuel loading for the Logix ICF must be lower than the insulation board the EIFS is currently listed for

on the Intertek directory of listed products.

Sto is currently listed with Intertek for the following products with corresponding EPS insulation board:

Sto (EIFS Category 1)

- Sto EIFS
 - ¾" to 4" 1.0 pcf density Type I Insulation Board
- Sto Signature System
 - ¾" to 4" 1.0 pcf density Type I Insulation Board
- Sto EIFS NExT
 - ¾" to 4" 1.0 pcf density Type I Insulation Board

Sto (EIFS Category 2)

- Sto CLASSIC NExT NC
 - ¾" to 5.5" 1.0 pcf density Type I Insulation Board
- Sto SIGNATURE SYSTEM NC
 - ¾" to 5.5" 1.0 pcf density Type I Insulation Board

The maximum fuel loading for these products has been calculated and reported in the below table:

Table 1: Sto Maximum Fuel Contribution


EIFS Category	Product Name	Max Fuel Contribution per 1 ft ² (lb)
1	Sto EIFS	0.333
1	Sto Signature System	0.333
1	Sto CLASSIC NExT	0.333
2	Sto CLASSIC NExT NC	0.458
2	Sto SIGNATURE SYSTEM NC	0.458

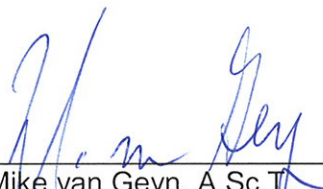
The Sto Intertek Listings has a minimum fuel loading of 0.333 lbs. The Logix ICF with a fuel loading of 0.333 lbs will not increase the fuel loading of the assembly; therefore we can expect to see equivalent or better results. If the cladding products are installed as per the installation instructions in the Appendix, Sto is eligible to use their cladding product on the Logix ICF while maintaining compliance to the 15 minute stay-in-place test of CAN/ULC S101-04. The Logix ICF must be maximum 1.45 pcf in density and must be compliant as a Type II material in accordance with ASTM C578-08 and CAN/ULC S701-05. Additionally, the EIFS Basecoat/Mesh shall be bonded to the concrete substrate at all openings and at the perimeter of all wall sections and control joints.

5 Conclusion

Intertek has conducted an engineering evaluation for Logix, on Insulating Concrete Forms, to evaluate fire resistance. The evaluation was conducted to determine if the Sto Intertek Listed cladding product will maintain compliance with CAN/ULC S101-04, "*Fire Endurance Tests of Building Construction and Materials*" when installed on the Logix ICF product.

INTERTEK TESTING SERVICES NA

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ATTACHMENTS:
Manufacturers Installation Instructions

ATTACHMENTS

<Manufacturers Installation Instructions>



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Sto Coatings for Insulated Concrete Forms (ICF) Specification F 610 Classic

This specification is intended for use by the design professional/specifier and user of Sto products to assist in developing project specifications for the application of Sto materials to new ICF that meet the requirements of the project specifications. Notes in italics, such as this one, are explanatory and intended to guide the design professional/specifier and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.

ICF walls are mass wall construction and as such do not provide for secondary drainage behind the coatings. The integration of overhangs and flashing should be designed into the ICF wall assembly to protect against water intrusion. Sto coatings comprise part of the building envelope. The installation of Sto coatings must be properly sequenced to integrate flashings, rough opening protection and water proofing to ensure that the building envelope remains dry and durable.

This specification is for Sto Coatings only. Evaluation of specific ICF wall systems and their suitability for a specific project are the responsibility of the designer or specifier. The party selecting the ICF should be aware that quality of ICF products may vary between manufacturers. Variable density of EPS and blocks out of square will affect the final appearance of the applied coatings. In addition, 'blow-outs' or other construction related defects may compromise the final surface of the ICF. Sto coatings are thin and not meant to correct deficiencies in the surface of the ICF. If there is concern that ICF or the finished ICF construction is not suitable for direct application of Sto coatings, the specifier or user may wish to consider installing a Sto EIFS or Sto Powerwall® stucco cladding over the forms instead of coatings.

PART 1 General

1.01 Section Includes

- A. Materials and installation of the Sto Coatings for Insulated Concrete Forms (ICF) and waterproofing (where ICF are used below grade).

1.02 Related Sections (add/delete, depending on specific project requirements):

- A. Section 03300: Cast-In-Place Concrete
- B. Section 04200: Unit Masonry
- C. Section 06115: Sheathing
- D. Section 07190: Vapor Barriers
- E. Section 07195: Air Barriers



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- F. Section 07620: Sheet Metal Flashing and Trim
- G. Section 07920: Sealants and Caulking
- H. Section 09260: Gypsum Board Systems

1.03 Referenced Documents: *(add/delete depending on specific project requirements)*

A. ASTM Standards:

- 1. B 117 Test Method for Salt Spray (Fog) Testing
- 2. C 150 Specification for Portland Cement
- 3. C 297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane
- 4. C 1135 Test Method for Determining Tensile Adhesion Properties of Structural Sealants
- 5. D 968 Test Method for Abrasion Resistance of Organic Coatings by Falling Abrasive
- 6. D 2247 Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
- 7. D 3273 Test for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
- 8. E 84 Test Method for Surface Burning Characteristics of Building Materials
- 9. E 119 Method for Fire Tests of Building Construction and Materials
- 10. G 23 Recommended Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials
- 11. G 53 Recommended Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

B. EIMA Standards

- 1. 101.01 Standard Test Method for Freeze/Thaw Resistance
- 2. 101.02 Standard Test Method for Resistance to Water Penetration of Exterior Insulation and Finish Systems (EIFS), Class PB
- 3. 101.03 Standard Test Method for Determining the Tensile Adhesion Strength of Exterior Insulation and Finish Systems (EIFS), Class PB.
- 4. 101.86 Standard Test Method for Resistance of Exterior Insulation and Finish Systems (EIFS), Class PB to the Effects or Rapid Deformation (Impact).

1.04 Design Requirements



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- A. *Design for maximum allowable system deflection, normal to the plane of the wall, of L/360.*
- B. *Design for wind load in conformance with code requirements.*
- C. *Prevent the accumulation of water behind coatings or into the ICF, either by condensation in the wall assembly or leakage through other components of construction, by proper design and detailing of the ICF wall assembly and related construction.*
- D. *Design expansion joints in the system where they exist in the substrate or supporting construction, and where the system adjoins dissimilar construction or materials.*
- F. *Design minimum 1/2 inch (13 mm) wide sealant joints at windows and other penetrations through the system (decks, hose bibs etc.).*
- G. *Specify compatible backer rod and sealant, or suitable accessories for system terminations or joints.*
- H. *Specify the Sto Coatings for Insulated Concrete Forms (ICF) only for ICF systems that have non-metallic form ties embedded within the form that will not be exposed by surface rasping. All other ICF systems may be clad with a minimum 1" (25mm) Sto EIFS or Sto Powerwall® stucco.*
- I. *Sloped surfaces, including EIFS Trim and Projecting Architectural Features attached to ICF.*
 - 1. *Build out trim and projecting architectural features from the ICF wall surface with EIFS. All EIFS trim and projecting architectural features must have a minimum 1:2 [27°] slope along their top surface. All EIFS horizontal reveals must have a minimum 1:2 [27°] slope along their bottom surface. Increase slope for northern climates to prevent accumulation of ice/snow and water on surface. Where trim/feature or bottom surface of reveal projects more than 2 inches (50 mm) from the face of the wall plane, protect the top surface with waterproof base coat. Avoid the use of trim and features that exceed the maximum allowable thickness of EPS permitted by code (refer to ICF manufacturer's code report) unless approved by the code official. Periodic inspections and increased maintenance may be required to maintain surface integrity of EIFS on weather exposed sloped surfaces. Limit projecting features to easily accessible areas and limit total area to facilitate maintenance and minimize maintenance burden. Refer to Sto details.*
 - 2. *Do not use EIFS on weather exposed projecting ledges, sills, or other projecting features unless supported by framing or other structural support*



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and protected with metal coping or flashing. Refer to Sto details.

- J. *Sto Coatings for Insulated Concrete Forms (ICF) are generally acceptable for buildings classified as combustible type construction. Buildings classified as noncombustible construction shall use ICF systems listed with a model code evaluation service and Sto Coatings shall be listed in the evaluation service report.*

1.05 Performance Requirements

A. Component Performance - Sto Acrylic Based Finishes

Test	Method	Criteria	Result
Accelerated Weathering	ASTM G-53	No deleterious effects* at 2000 hours when viewed under 5x magnification	No deleterious effects @ 4000 hours
Flexibility	ASTM D-522	4" (100 mm) mandrel bend	Pass
Water Vapor transmission (US Perms)	ASTM E-96 Modified	28 days	37
Chalk Rating	ASTM D-4214	2000 hours 5000 hours	9 (10=best on scale 1-10) 8
Freeze/Thaw Resistance	EIMA 101.01	60 cycles	No deleterious effects @ 90 cycles
Yellowness Index	ASTM E-313	5000 hours	1.50 (0 = no change; 2 = barely discernable change.)
Salt Spray Resistance	ASTM B-117	300 hours	No deleterious effects* @ 500 hours
Wind Driven Rain	Fed TT-C555B	24 hour driving rain	No water penetration
Water Resistance	ASTM D2247	14 days	No deleterious effects* @28 days
Mildew Resistance	ASTM D-3273	No growth @ 28 days	No growth at 42 days
Abrasion Resistance	ASTM D-968	528 qts. (500 litres) Sand	No cracking, checking or loss of Film integrity @ 1057 qts.
Tensile Adhesion	EIMA 101.03	No failure in the EPS adhesive, basecoat or	Pass



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		finish; minimum 5 psi (34 kPa)	
Adhesion (psi)	ASTM D-4541	28 days	> 90 to concrete
Fire Resistance	ASTM E-119	No effect on fire resistance rating of existing rated wall assembly	Pass
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5

* No deleterious effects: no cracking, checking, crazing, erosion, rusting, blistering, peeling or delamination.

B. Component Performance – Sto BTS® Plus Base Coat

Test	Method	Criteria	Result
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5
Adhesion (psi)	ASTM C-297 (modified)	28 days	> 15 EPS Board (103 kPa)
Impact Strength	EIMA 101.86	Standard Impact Classification	Pass

1.06 Submittals

- A. Coating manufacturer's specifications, details, installation instructions and product data.
- B. Samples for approval as directed by architect or owner.
- C. Manufacturer's standard material warranty.
- D. A list of minimum three (3) job references.
- E. Prepare and submit project-specific details (when required by contract documents).



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1.07 Quality Assurance

- A. Coating manufacturer requirements
 - 1. Member in good standing of the EIFS Industry Members Association (EIMA).
 - 2. Coating manufacturer for a minimum of twenty (25) years.
 - 3. ISO 9001:2000 registration.
- B. Contractor requirements
 - 1. Engaged in application of the Sto Coatings for ICF or similar systems for a minimum of three (3) years.
 - 2. Knowledgeable in the proper use and handling of Sto materials.
 - 3. Employ skilled mechanics experienced and knowledgeable in plastering application for ICF, and familiar with the requirements of the specified work.
 - 4. Successful completion of minimum three (3) projects of similar size and complexity to the specified project.
 - 5. Provide the proper equipment, manpower and supervision on the job site to install the system in compliance with Sto's published specifications and details and the project plans and specifications.

1.08 Delivery, Storage and Handling

- A. Deliver all materials in their original sealed containers bearing manufacturer's name and identification of product.
- B. Protect coatings (pail products) from freezing 32° F (0° C) and temperatures in excess of 90° F (32° C). Store away from direct sunlight.
- C. Protect Portland cement based materials (bag products) from moisture and humidity. Store under cover off the ground in a dry location.

1.09 Project/Site Conditions

(Weather conditions affect application and drying time. Hot or dry conditions limit



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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 retard drying and may require added measures of protection against wind, dust, dirt, rain and freezing. Moisture from concrete in the ICF may delay the installation of coatings on the ICF until 28 days after the concrete is placed.)

- A. Maintain ambient and surface temperatures above 40° F (4° C) during application and drying period, minimum 24 hours after application of coatings.
- B. Provide supplementary heat for installation in temperatures less than 40° F (4° C).
- C. Provide protection of surrounding areas and adjacent surfaces from application of materials.

1.10 Coordination/Scheduling

(The work in this section requires close coordination with related sections and trades. Building codes require protection of rough openings and the incorporation of flashing to drain water outbound of the cladding. Sequence work accordingly)

- A. Install flashings, copings and sealant immediately after installation of the system and when coatings are dry.

1.11 Warranty

- A. Provide manufacturer's standard coating material warranty.

Part 2 PRODUCTS

2.01 Manufacturers

- A. Sto Corp.

2.02 Adhesive

- A. Sto BTS® Plus—one-component, polymer-modified, cement based high build adhesive with less than 33 percent Portland cement content by weight (for bonding Expanded Polystyrene Insulation (EPS) shapes or features to the ICF).

2.03 Insulation Board

- A. Nominal 1.0 lb/ft³ (16 kg/m³) Expanded Polystyrene (EPS) Insulation Board in compliance with ASTM C 578 Type I requirements, and EIMA Guideline



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Specification for Expanded Polystyrene (EPS) Insulation Board for use as features applied to the surface of the ICF prior to the installation of Sto coatings.

(Note: minimum required EPS thickness is 1 inch [25 mm] and maximum allowable thickness in noncombustible construction is typically 4 inches [100 mm] total, 1 pcf density. As the ICF EPS is typically 1.5 pcf density the allowable total thickness of the ICF component is reduced by 33%.)

2.04 Base Coat *(select one)*

- A. Sto BTS®-PLUS--one-component polymer modified cementitious high build base coat with less than 33 percent Portland cement content by weight.
- B. Sto BTS®-Silo -- Sto BTS® Silo is a one-component, polymer-modified, cement based material used as a base coat. It is specially designed for use with StoSilo system equipment, which mixes, pumps, and sprays Sto BTS® Silo.
- C. Waterproof Base Coat -- Sto Flexyl—two component, fiber reinforced, acrylic based, waterproof base coat mixed with Portland cement (for use as a waterproof base coat to waterproof foundations, parapets, splash areas, trim and other projecting architectural features).

Note: Sto Watertight Coat is an acceptable substitute for Sto Flexyl.

2.05 Reinforcing Mesh

- A. Standard Mesh
 - 1. Sto Mesh - nominal 4.5 oz./yd.² (153 g/m²), symmetrical, interlaced open-weave glass fiber fabric made with minimum 20 percent by alkaline resistant coating for compatibility with Sto materials.
- B. Specialty Mesh
 - 1. Sto Corner Mat - nominal 6.25 oz./yd.² (212 g/m²), pre-creased, heavy-duty open-weave woven glass fiber fabric with alkaline resistant coating for compatibility with Sto materials (used for maximum impact protection at inside and outside corners).
 - 2. Sto Detail Mesh - nominal 4.2 oz./yd.² (143 g/m²), flexible, symmetrical, interlaced glass fiber fabric, with alkaline resistant coating for compatibility with Sto materials (used for standard EIFS backwrapping and aesthetic detailing).



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C. High Impact Mesh

1. Sto Armor Mat -- nominal 11.2 oz./yd² (380 g/m²), high impact, interwoven, open weave glass fiber fabric with alkaline resistant coating for compatibility with Sto materials (achieves High Impact Classification).

2. Ultra-High Impact Mesh

Sto Armor Mat--nominal 15 oz./yd² (509 g/m²), ultrahigh impact, double strand, interwoven, open-weave glass fiber fabric with alkaline resistant coating for compatibility with Sto materials (recommended to a minimum height of 6'-0" [1.8m] above finished grade at all areas accessible to pedestrian traffic and other areas exposed to abnormal stress or impact. Achieves UltraHigh Impact Classification when applied beneath Sto Mesh).

2.06 Primer *(optional component to enhance finish color)*

- A. Sto Primer
Acrylic based primer.

(NOTE: Priming is strongly recommended as a color base for all finishes, particularly for "R" [rilled texture] finishes, and fine texture finishes. The primer may be tinted to match the finish color.)

2.07 Finish Coat

- A. Sto acrylic based textured wall finish.

2.08 Mixing

- A. Sto BTS®-PLUS: mix ratio with water: 6-8 quarts (5.7-7.6 L) of water per 60 pound (27.3 kg) bag of Sto BTS®-PLUS. Pour water into a clean mixing pail. Add Sto BTS®-PLUS, mix to a uniform consistency with clean, rust-free electric drill and paddle. Allow to set for approximately 5 minutes, then remix. Adjust mix if necessary with additional Sto BTS®-PLUS or water and remix to a uniform trowel consistency. Avoid retempering. Keep mix ratio consistent.
- B. Sto Primers: mix to a uniform consistency using a clean, rust-free, high-speed electric drill mixer.
- C. Sto Finishes: mix to a uniform consistency using a clean, rust-free high speed



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electric drill mixer. A small amount of water may be added to adjust workability. Limit addition of water to amount needed to achieve the finish texture.

- D. Mix only as much material as can readily be used.
- E. Do not use anti-freeze compounds or other additives.

Part 3 EXECUTION

3.01 Acceptable Installers

- A. Prequalify under Quality Assurance requirements of this specification (section 1.07.B).

3.02 Examination

- A. Inspect ICF for:
 - 1. Straightness, trueness and uniformity of surface.
 - 2. Compliance with tolerances -- horizontal alignment within 1/8 inch in 10 feet (3 mm in 3 m) of the wall length.
 - 3. Concrete protruding through the ICF block joints or breakouts.
- B. Report deviations from the requirements of project specifications or other conditions that might adversely affect the installation to the General Contractor or Builder.

3.03 Surface Preparation

- A. Level surfaces to comply with required tolerances:
 - 1. Where concrete has protruded through the block joints, remove it and fill the void with low expansion urethane foam. When it is cured rasp it smooth to match the planar surface of the wall.
 - 2. Where the forms are damaged resulting in a void in the surface, fill the void with low expansion urethane foam. When it is cured rasp it smooth to match the planar surface of the wall.
- B. Lightly rasp the surface of the ICF to achieve a level surface and remove any



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irregularities.

3.04 Installation

A. Base Coat Application

1. Apply base coat over the ICF with proper spray equipment or a stainless steel trowel to a uniform thickness of approximately 1/16 inch (1.6 mm). Apply base coat in strips of 40 inches (1 m) and immediately embed reinforcing mesh into the wet base coat by troweling from the center to the edge of the mesh. Avoid wrinkles in the mesh. Overlap the mesh minimum 2-1/2 inches (65 mm) at mesh seams.
2. The mesh must be fully embedded so that no mesh color shows through the base coat when it is dry. Feather mesh overlaps to avoid reading the mesh through the finish coating. Allow base coat to thoroughly dry before applying primer and finish.
3. For noncombustible construction application of base coat and mesh must comply with the requirements of the code evaluation reports or listings.

B. Primer

1. Apply Sto Primer with brush, roller or proper spray equipment over the clean, dry base coat and allow to thoroughly dry prior to the application of the finish.

(Note: The combination of EPS insulation and low expansion urethane foams in one substrate may result in the base coat curing different colors. The use of primer is strongly recommended to ensure that the color differences are not transmitted to the finish.)

C. Finish Coat Application

1. Apply finish directly over the base coat (or primed base coat) ONLY AFTER THE BASE COAT/PRIMER HAS THOROUGHLY DRIED. Apply the finish by spraying, or troweling with a stainless steel trowel, depending on finish specified. General rules for application of finishes are as follows:
 - a. Avoid application in direct sunlight.
 - b. Apply finish in a continuous application, always working to a wet edge.
 - c. 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



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results; cool or damp conditions extend working time and retard drying and may require added measures of protection against wind, dust, dirt, rain and freezing. Adjust work schedule and provide protection.

- d. Do not install finish on accessories or sealant.
- e. Float "R" (rilled texture) with a plastic trowel to achieve their rilled texture.
- f. Do not install separate batches of finish side-by-side.
- g. Do not apply finish over irregular or unprepared surfaces, or surfaces not in compliance with the project specifications.

D. Sealant Installation

1. Seal all open joints in the system with appropriate sealant in accordance with sealant manufacturer's recommendations to prevent any water from getting into or behind the coatings.

ATTENTION

Sto products are intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. They should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to Sto products, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.

REVISION SUMMARY

DATE	SUMMARY
March 27, 2008	Report issued to client