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Sto Guide Specification No. F601S StoQuik® Gold Finish System for Soffits and Ceilings

Section 09 25 13.13 ACRYLIC PLASTER FINISH

Notes in italics, such as this one, are explanatory and intended to guide the design/construction professional and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.

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PART 1 GENERAL

1.1 SUMMARY

- A. Provide textured finish system for exterior gypsum or cement board soffit and ceiling surfaces.

***IMPORTANT:** This guide specification covers installation of a Class A textured finish system over building code compliant soffit or ceiling construction. It does not address air sealing, soffit or ceiling ventilation, construction detailing, flashing, drip edges, and other important aspects of design and construction that must be taken into consideration to prevent water infiltration, to prevent condensation caused by air leakage or water vapor diffusion, and to comply with applicable fire safety requirements. Consult with a qualified design professional for overall design of the soffit/ceiling assembly.*

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Material Safety Data Sheets.

1.3 REFERENCES

- A. ASTM C1177, Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- B. ASTM C1325, Standard Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units
- C. South Coast Air Quality Management District (SCAQMD)
Rule 1113, Architectural Coatings

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The textured finish system manufacturer shall be a company with at least thirty five years of experience in manufacturing specialty finishes and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an ISO 9001:2008 certified quality system and ISO 14001:2004 certified environmental management system.
- B. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience. Contractor shall have at least 5 years of experience in commercial textured finish application, and shall have completed at least 3 projects of similar size and complexity. Contractor shall provide proof before commencement of work that he/she will maintain and supervise a qualified crew of applicators through the duration of the work. When requested Contractor shall provide a list of the last three comparable jobs including the name, location, and start and finish dates for the work.
- C. Mock-ups: The contractor shall install a mock-up of the system for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.
- D. Testing: Testing shall be conducted as directed by the design professional, building owner, or owner's representative/quality assurance agent to verify soffit/ceiling assembly performance and adhesion to prepared substrates.



1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, and batch number.
- B. Store products in a dry area with temperature maintained between 50 and 85 degrees F (10 and 29 degrees C). Protect from direct sunlight. Protect from freezing. Protect from extreme heat (>90 degrees F [32 degrees C]).
- C. Handle products in accordance with manufacturer's printed instructions.

1.6 WARRANTY

- A. Provide manufacturer's standard limited warranty.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Textured Finishes (*select one*)
 - 1. Stolit – high performance decorative and protective acrylic-based textured wall finish with integral color, complies with SCAQMD Rule 1113 for architectural finishes
 - 2. Sto Essence DPR – high performance decorative and protective textured wall finish with integral color, complies with SCAQMD Rule 1113 for architectural finishes
- B. StoSignature Finishes – Stolit acrylic based textured wall finish applied over Sto Crack Defense with specialized techniques to achieve unique textures, impressions or effects. Refer to www.stocorp.com for StoSignature Finishes Brochure and Installation Guides.
- C. StoCast Finishes – Sto custom cast pre-formed decorative and protective finish and adhesive
 - 1. StoCast Wood
 - 2. StoCast Brick
- D. Primer (*optional component*)
 - 1. StoPrime™ Sand – acrylic-based sanded primer, complies with SCAQMD Rule 1113 for primers
 - 2. StoPrime™ – acrylic-based smooth primer, complies with SCAQMD Rule 1113 for primers
- E. Base Coat (*select one*)
 - 1. Sto BTS Xtra – one component polymer modified portland cement extra high build base coat
 - 2. Sto BTS Plus – one component polymer modified portland cement high build base coat
 - 3. Sto Primer/Adhesive-B – one component polymer modified portland cement base coat
- F. Surface Reinforcement
 - 1. Sto Mesh – nominal 4.5 oz/yd² (153 g/m²) glass fiber reinforcing mesh treated for compatibility with Sto materials



2. Sto Detail Mesh – nominal 4.2 oz/yd² (142 g/m²) glass fiber reinforcing mesh treated for compatibility with Sto materials
 3. StoGuard Mesh – nominal 4.2 oz/yd² (142 g/m²) self-adhesive glass fiber reinforcing mesh treated for compatibility with Sto materials
- G. Gypsum or Cement Soffit Board (*select one*)
1. eXP[®] glass mat faced gypsum sheathing in compliance with ASTM C1177
 2. DensGlass[®] glass mat faced gypsum sheathing in compliance with ASTM C1177
 3. PermaBase[®] Brand cement board in compliance with ASTM C1325

PART 3 EXECUTION

3.1 INSTALLATION

- A. General Surface Preparation
- B. Gypsum or cement soffit board must be installed in conformance with the applicable building code and manufacturer's written installation instructions. Gypsum or cement soffit board surface must be clean, dry, and free of surface contamination. Soffit board surface shall not have planar irregularities in excess of 1/16 inch (1.6 mm) and shall be free of voids, cracks, and other surface defects.

***NOTE:** Coarse texture finishes (equal to or greater than 1.5 mm texturing aggregate) are recommended to hide trowel marks and other minor surface imperfections in the surface. Where finer textures are used a second application of base coat or a skim coat of Stolit Milano may be necessary to provide a smooth enough surface for the fine texture finish. The approved mock up shall be the basis for acceptable finished appearance and the number of layers of base coat or skim coat needed to achieve the finished appearance.*

- C. Mixing
1. Mix Sto products in accordance with published literature. Refer to applicable Product Bulletins for specific information on use, handling, application, precautions, and limitations of specific products.
- D. Application
1. Install corrosion proof termination accessories per ASTM D1784 (PVC) with perforated flanges for keying of the base coat at junctures with penetrations such as soffit vents, electrical fixtures, and with abutting walls and columns. Install corrosion proof control joints per ASTM D1784 (PVC) with perforated flanges for keying of the base coat at intervals as required by the soffit board manufacturer. Refer to Sto Guide details.
 2. Reinforce perforated flanges of accessories with minimum 4 inch (102 mm) wide strips of Sto Detail Mesh or Sto Mesh embedded in base coat. Where cement board is used tape joints between boards with minimum 4 inch (102 mm) wide StoGuard Mesh and skim with base coat. Alternatively tape joints with minimum 4 inch (102 mm) wide Sto Mesh or Sto Detail mesh embedded in base coat. Allow base coat to dry.
 3. Install nominal 1/8-inch (3 mm) base coat by trowel to the soffit/ceiling board surface. Work horizontally or vertically in strips of 40 inches (1016 mm), and immediately embed

the Sto Mesh into the wet base coat by troweling from the center to the edge of the mesh. Overlap mesh installed at perforated accessory flanges by installing Sto Mesh up to the termination bead of the accessory. Overlap mesh not less than 2-½ inches (64 mm) at mesh seams and feather at seams. Double wrap all inside and outside corners with minimum 8-inch (203 mm) overlap in each direction (except where corner bead is used at outside corners lap mesh over perforated flange of accessory). Avoid wrinkles in the mesh. The mesh must be fully embedded so that no mesh color shows through the base coat when it is dry. Re-skim with additional base coat if mesh color is visible. Do not install base coat and mesh onto solid (unperforated) portions of accessories.

4. When the base coat application is dry apply the primer by brush or roller to the entire base coat surface.
5. Sto Textured Finish Application - when the primer application is dry apply the textured finish by trowel. Apply finish in a continuous application, and work to a wet edge. Float the finish to achieve the desired texture.
6. StoSignature Finish Application – refer to StoSignature Application Guide
7. Sto Custom Cast Finish Application – refer to applicable Application Guide and/or Product Bulletin for selected finish

E. Protection

1. Provide protection of installed materials from water infiltration into or behind them during and after construction.
2. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until they are fully dry.
3. Seal penetrations through the finished surface with backer rod and sealant or other appropriate means.

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.