

APPLICATION FOR
URBAN DESIGN COMMISSION
REVIEW AND APPROVAL

AGENDA ITEM # _____
Project # 04009

DATE SUBMITTED: <u>June 21, 2006</u>	Action Requested
UDC MEETING DATE: <u>June 28, 2006</u>	<input type="checkbox"/> Informational Presentation
	<input type="checkbox"/> Initial Approval and/or Recommendation
	<input checked="" type="checkbox"/> Final Approval and/or Recommendation*

PROJECT ADDRESS: 454 Common Road

ALDERMANIC DISTRICT: 9

OWNER/DEVELOPER (Partners and/or Principals) ARCHITECT/DESIGNER/OR AGENT:
Dunham Capital Management SJA Architects
230 S Phillips Ave Suite 202 2035 15th Street North
Sioux Falls SD 57104 St Cloud MN 56303

CONTACT PERSON: Sean Currie - Tri North Builders
Address: 717 Post Road
PO Box 259568, Madison WI 53725-9568
Phone: 608-204-7222
Fax: 608-271-3354
E-mail address: SCurrie@tri-north.com

- TYPE OF PROJECT:
(See Section A for:)
- Planned Unit Development (PUD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
 - Planned Community Development (PCD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
 - Planned Residential Development (PRD)
 - New Construction or Exterior Remodeling in an Urban Design District * (A public hearing is required as well as a fee)
 - School, Public Building or Space (Fee may be required)
 - New Construction or Addition to or Remodeling of a Retail, Hotel or Motel Building Exceeding 50,000 Sq. Ft.
 - Planned Commercial Site *

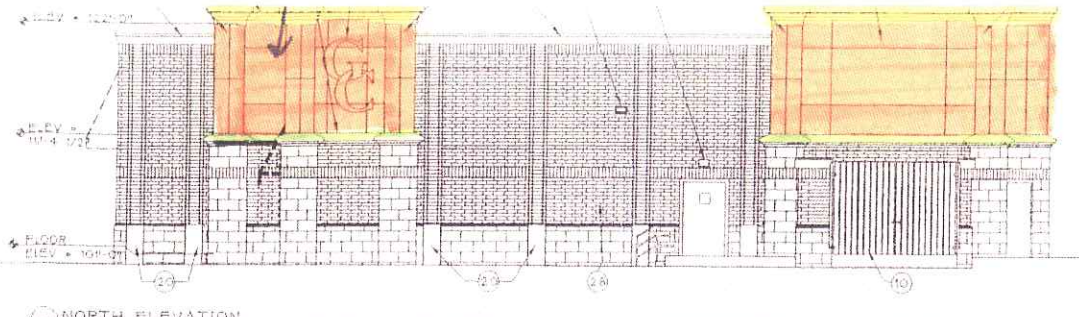
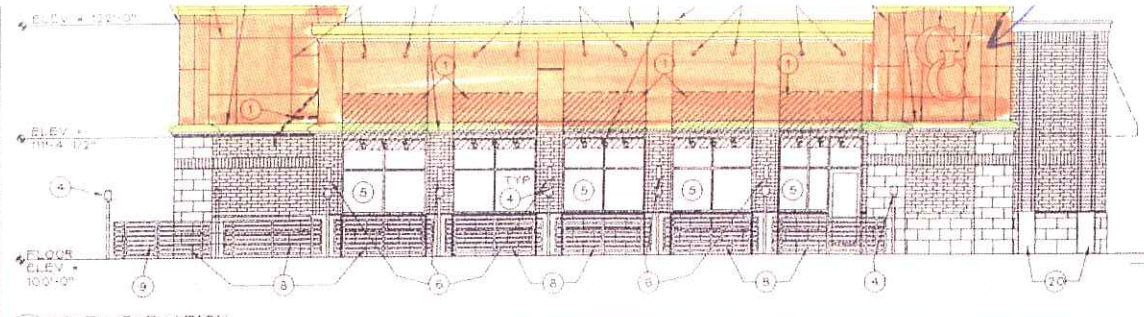
(See Section B for:)
 New Construction or Exterior Remodeling in C4 District (Fee required)

(See Section C for:)
 R.P.S.M. Parking Variance (Fee required)

(See Section D for:)
 Comprehensive Design Review* (Fee required)
 Street Graphics Variance* (Fee required) * Modification to previously approved project.
 Other _____

*Public Hearing Required (Submission Deadline 3 Weeks in Advance of Meeting Date)
F:\PROJECT WORK\PL UDC\Miscellaneous\submit\view\approval\app\04009



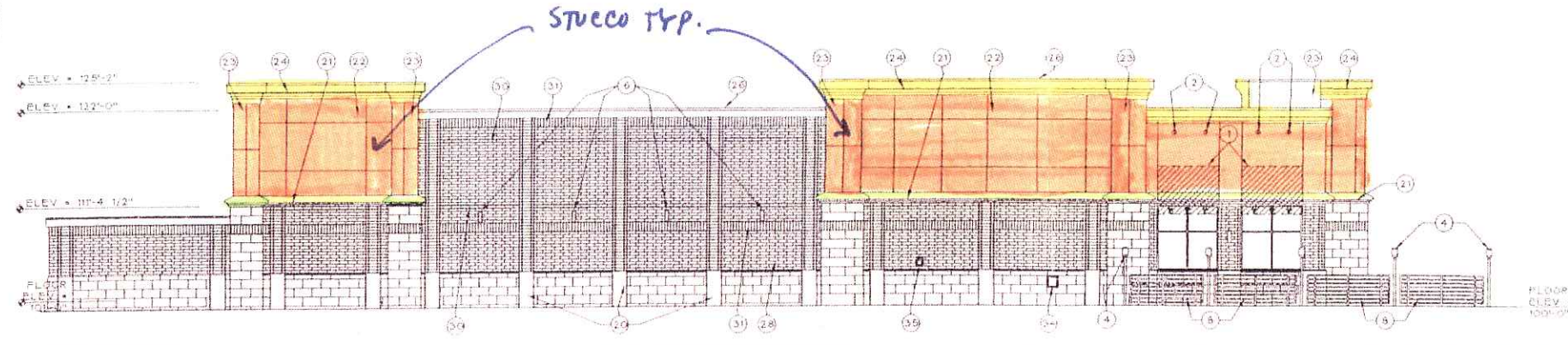


M1 SOUTH ELEVATION
1/8" = 1'-0"

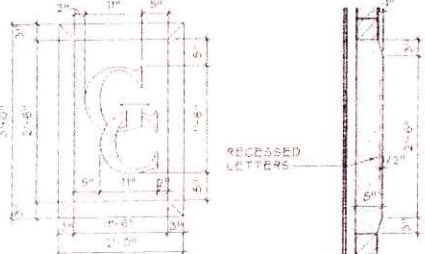
M1 NORTH ELEVATION
1/8" = 1'-0"



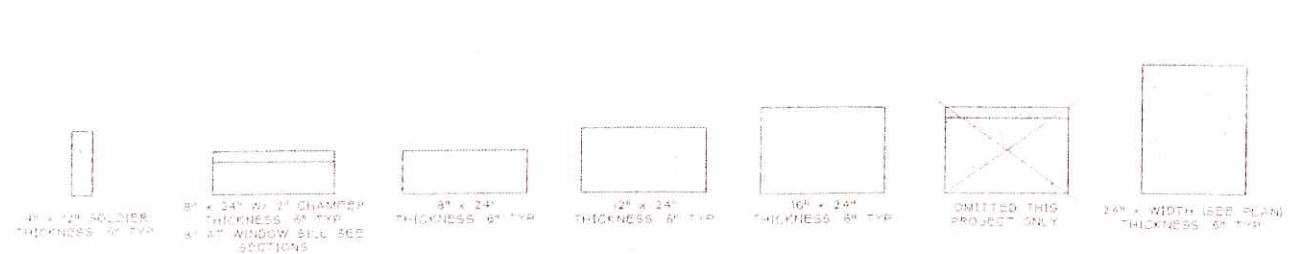
H1 EAST ELEVATION
1/8" = 1'-0"



D1 WEST ELEVATION
1/8" = 1'-0"



GRANITE SIGN NOTES
 1. CUSTOM GC LETTERS VERIFY W/ OWNER TYPE
 2. SEE SPEC FOR GRANITE COLOR AND FINISHES



CAST STONE NOTES
 1. STONE TO BE 8\"/>

- GENERAL NOTES**
 1. SEE SHEET A102 FOR EIFS SCORING LOCATIONS AND DETAILS
- REFERENCED CONSTRUCTION NOTES**
- 1) AWNING WIDTH TO MATCH WINDOW OR DOOR WIDTH
 - 2) AWNING DOWN LIGHT
 - 3) DECORATIVE LIGHT
 - 4) LIGHT POST
 - 5) CLEAR PLATE GLASS (INSUL)
 - 6) CYLINDER DOWN/UP EXTERIOR WALL SOURCE
 - 7) 1/8\"/>
 - 8) PATIO RAILING SEE A11, PT RAILINGS COLOR 3
 - 9) PATIO RAILING GATE SEE C102, PT RAILINGS COLOR 3
 - 10) DUMPSTER ENCLOSURE SEE DUC102
 - 11) WALL PACK FIXTURE
 - 12) ADDRESS STONE VERIFY ADDRESS W/ OWNER
 - 13) LETTERING BY AWNING CONTRACTOR
 - 14) NOT USED
 - 15) FIRE DEPT STROBE
 - 16) FIRE DEPT ALARM
 - 17) SIAMENS SPRINKLER
 - 18) STUCCO SCORING SEE STUCCO SCORING ELEVATIONS BELOW
 - 19) ILLUMINATED LIGHTED SIGNAGE BY SIGNAGE CONTRACTOR
 - 20) CAST STONE LARGE PIECES SEE CAST STONE CHART
 - 21) BELT COURSE STUCCO, COLOR 1, TEXTURE B
 - 22) FIELD STUCCO, COLOR 1, TEXTURE B
 - 23) CORNER COLUMN 1 1/2\"/>
 - 24) CORNICE STUCCO, COLOR 2, TEXTURE B
 - 25) NOT USED
 - 26) SHT. MTL CAP AND SILL FLASHING TO MATCH COLOR OF ADJACENT MATERIAL, SEE COLOR 4
 - 27) STONE ELEMENT
 - 28) FIELD W/IDE, COLOR 5
 - 29) NOT USED
 - 30) BRICK CORBEL ACCENT BAND, COLOR 6
 - 31) SOLDIER COURSE ACCENT BAND, COLOR 5
 - 32) NOT USED
 - 33) TPO
 - 34) WERT ACCESS DOOR BY KES
 - 35) 6\"/>
 - 36) KNOX BOX VERIFY W/ FIRE MARSHAL LOCATION
- COLOR AND TEXTURE KEY**
 SEE SHEET 0201 FOR EXTERIOR COLOR KEY

REVISIONS

Mark	Date	Desc

PRO
 GR. FLOOR 454.50
 MADISU
 Granite City
 38111
 Duluth, MN

SHIWA
 EXTERIOR EL

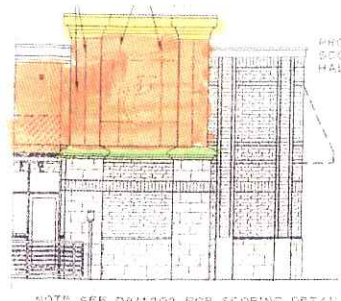
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1. VERIFY CERTIFY
 PLAN SPECIFICATI
 WAS APPROVED BY
 MY DIRECT SUPERVIS
 I AM A CITY RESIDENT
 ARCHITECT UNDER
 THE STATE OF MN

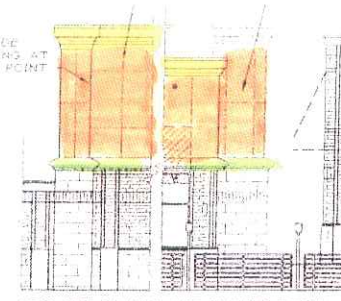
Date: 3/23/06
 Drawn By: DLG
 Checked By: DLG
 Date: 3/23/06



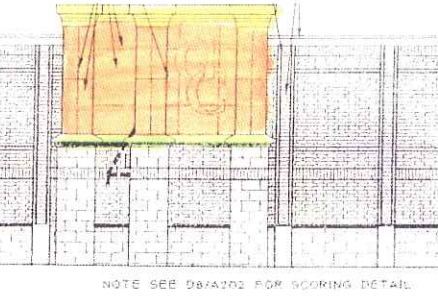
M1 EAST ELEVATION
1/28' x 15'-0"



M10 SOUTH ELEVATION
1/28' x 15'-0"

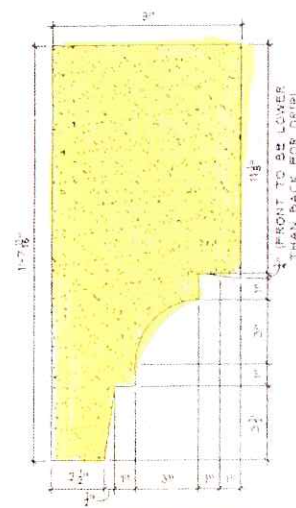


M14 WEST ELEVATION
1/28' x 15'-0"

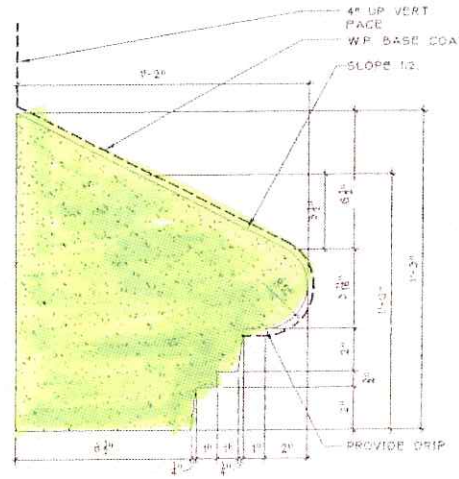


M17 NORTH ELEVATION
1/28' x 15'-0"

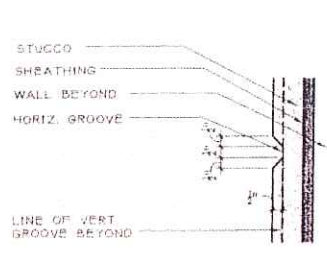
Areas in orange are presently spec'd as stucco
 yellow and green are presently spec'd as EIFS
 We are proposing all colored areas to be EIFS



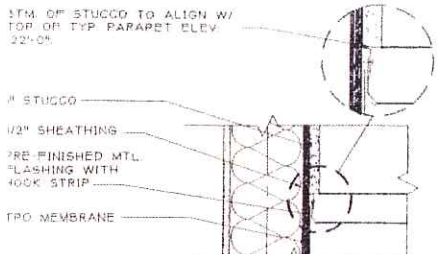
B1 TYPICAL EIFS DETAIL
1/28' x 15'-0"



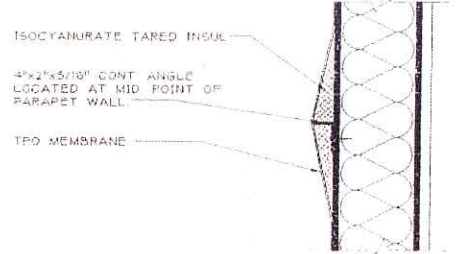
B4 TYPICAL BELTLINE EIFS DETAIL
1/28' x 15'-0"



DB V GROOVE IN STUCCO
1/28' x 15'-0"



D1 STUCCO/TPO TRANSITION
1/28' x 15'-0"



D15 PARAPET WALL DETAIL
1/28' x 15'-0"

NOTE
 PROTECT PLWD SHEATHING ON
 PARAPETS W/ POLY TO PROTECT
 THEM FROM WEATHER DAMAGE
 BEFORE STUCCO INSTALLATION (AT
 STUCCO LOCATIONS ONLY).

SJA ARCHI
 DULUTH • ST
 2035 15TH S
 St. Cloud, Minn
 Phone (320) 2
 Fax (320) 25
 www.stankusjah



REVISIONS

Mark	Date	Description



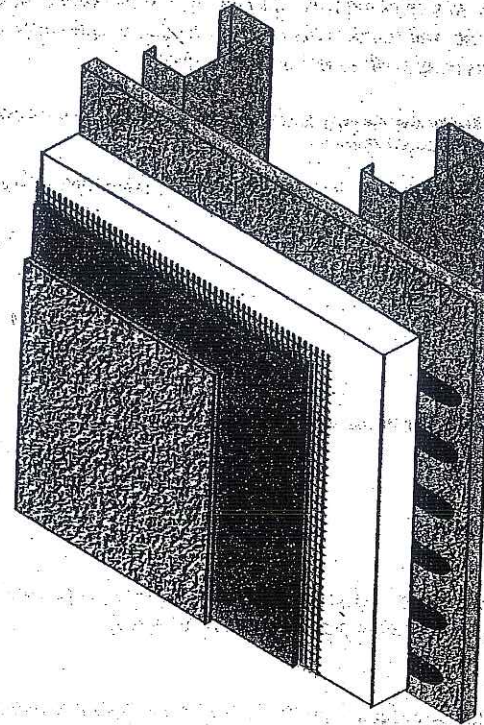
EIFS DETAIL

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I HEREBY CERTIFY THAT
 THESE SPECIFICATIONS
 WAS PREPARED BY ME
 OR DIRECT SUPERVISOR
 I AM A duly REGISTERED
 ARCHITECT UNDER THE
 THE STATE OF WISCONSIN

Date: 1/28/08
 Drawn by: J. J. J. J.
 Checked by: J. J. J. J.
 Scale: 1/8" = 1'-0"

Sto Insulated Wall Claddings



Specification and Details

Sto Insulated Wall Claddings

Short Form Guide Specification 100

Section 07240

This specification is intended for use by the design/construction professional and any user of Sto products to assist in developing project specifications and to provide guidance on the application of the Sto Systems to concrete, masonry and exterior wall sheathing. The Sto Systems are exterior insulation and finish systems that function as decorative and protective insulating wall claddings. They consist of five components—adhesive, insulation board, reinforcing mesh, base coat 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 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. 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.

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.

*****Refer to long form specifications E100 (Sto Essence), A100 (Sto Classic) and P100 (Sto Premier) for detailed information on substrates, performance data, mixing and installation instructions.*****

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Materials and installation of Exterior Insulated Wall Claddings.

1.02 DESIGN REQUIREMENTS

- A. Wind Load
 - 1. Design for maximum allowable system deflection, normal to the plane of the wall, of L/240.
 - 2. Design for wind load in conformance with code requirements.
- B. Moisture Control
 - 1. Prevent accumulation of water behind the System, either by condensation or leakage through the wall construction, in the design and detailing of the wall assembly.
 - a. Provide flashing to direct water to the exterior where it is likely to penetrate components in the wall assembly, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, and at the base of the wall.
 - b. Air Leakage Prevention—see Sto Specification 100G if an air barrier is desired or required in the wall construction.
 - c. Vapor Diffusion and Condensation—perform a dew point analysis of the wall assembly to determine the potential for accumulation of moisture in the wall assembly as a result of water vapor diffusion and condensation. Adjust insulation thickness and/or other wall assembly components accordingly to minimize the risk of condensation. Avoid the use of vapor retarders on the interior side of the wall in warm, humid climates.
- C. Impact Resistance
 - 1. Provide ultra-high impact resistance to a minimum height of 6'-0" (1.8 m) above finished grade at all areas accessible to pedestrian traffic and other areas exposed to abnormal stress or impact. Indicate the areas with impact resistance other than "Standard" on contract drawings.
- D. Color Selection
 - 1. Select finish coat with a light reflectance value of 20 or greater. (The use of dark colors is not recommended with Systems that incorporate expanded polystyrene [EPS]. EPS has a service temperature limitation of approximately 160° F [71°C]).

- E. Joints
1. Design minimum 3/4 inch (19 mm) wide expansion joints in the System where they exist in the substrate or supporting construction, where the System adjoins dissimilar construction or materials, at changes in building height, and at floor lines in multi-level wood frame construction.
 2. Design minimum 1/2 inch (13 mm) wide sealant joints at all penetrations through the System (windows, doors, etc.).
 3. Specify compatible backer rod and sealant that has been evaluated in accordance with ASTM C 1382, "Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish System (EIFS) Joints," and that meets minimum 50% elongation after conditioning.
 4. Design joints with secondary moisture protection and drain joints to the exterior.
- F. Grade Condition
1. Do not specify Systems for use below grade (unless designed for use below grade and permitted by code) or for use on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure.
- G. Trim, Projecting Architectural Features and Reveals
1. All trim and projecting architectural features must have a minimum 1:2 [27°] slope along their top surface. All 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 (51 mm) from the face of the System wall plane, protect the top surface with water-proof base coat. Avoid the use of trim and features that exceed the maximum allowable thickness of EPS permitted by code (typically 4 inches [100 mm]) unless approved by the code official. Periodic inspections and increased maintenance may be required to maintain surface integrity of Systems 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 1.04a and 1.04b.
 2. Do not use Sto Systems on weather exposed projecting ledges, sills, or other projecting features unless supported by framing or other structural support and protected with metal coping or flashing. Refer to Sto detail 1.61.
- H. Fire Protection
1. Do not use foam plastic in excess of 4 inches (100 mm) thick unless approved by the code official.
 2. Where a fire-resistance rating is required by code use System over rated assembly (Sto Systems are considered not to add or detract from the fire-resistance of the rated assembly).
 3. Refer to manufacturer's applicable code compliance report for other limitations that may apply.

1.03 QUALITY ASSURANCE

- A. Manufacturer requirements
1. Member in good standing of the EIFS Industry Members Association (EIMA).
 2. System manufacturer for a minimum of twenty-five (25) years.
 3. Manufacturing facilities ISO 9001:2000 certified.
 4. Manufacturer's wall assembly listed in Gypsum Association Fire Resistance Design Manual.
- B. Contractor requirements
1. Engaged in application of EIFS for a minimum of three (3) years.
 2. Knowledgeable in the proper use and handling of Sto materials and listed by Sto as having attended Sto EIFS continuing education.
 3. Employ skilled mechanics who are experienced and knowledgeable in EIFS application, and familiar with the requirements of the specified work.
 4. Successful completion of minimum of 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.
- C. Insulation board manufacturer requirements
1. Recognized by Sto as capable of producing insulation board to meet system requirements, and hold a valid licensing agreement with Sto.
 2. Listed by an approved agency.
 3. Label insulation board with information required by Sto, the approved listing agency and the applicable building code.
- D. Mock-up Testing
1. Construct full-scale mock-up of typical EIFS/window wall assembly with specified tools and materials and test air and water infiltration and structural performance in accordance with ASTM E-283, E-331 and E-330, respectively, through independent laboratory. Mock-up shall comply with requirements of project specifications. Where mock-up is tested at job site maintain approved mock-up at site as reference standard. If tested off-site accurately record construction detailing and sequencing of approved mock-up for replication during construction.

- E. Inspections
 1. Provide independent third party inspection where required by code or contract documents.
 2. Conduct inspections in accordance with code requirements and contract documents.

1.04 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 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.

1.05 COORDINATION/SCHEDULING

(The work in this section requires close coordination with related sections and trades)

- A. Provide site grading such that the Sto System terminates above finished grade a minimum of 8 inches (203 mm) or as required by code.
- B. Provide protection of rough openings before installing windows, doors, and other penetrations through the wall and provide sill flashing.
- C. Install window and door head flashing immediately after windows and doors are installed.
- D. Install diverter flashings wherever water can enter the wall assembly to direct water to the exterior.
- E. Install copings and sealant immediately after installation of the System and when finish coatings are dry.
- F. Attach penetrations through System to structural support and provide water tight seal at penetrations.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide System products and accessories from single source manufacturer or approved supplier.
- B. The following are acceptable manufacturers:
 1. Sto Corp. — Insulated Cladding System
 2. Plastic Components, Inc. — Accessories

2.02 ADHESIVE (select one)

Sto Primer/Adhesive-B	Sto BTS® Plus	Sto BTS® Plus
Sto Dispersion Adhesive	Sto Dispersion Adhesive	Sto Dispersion Adhesive
	Sto BTS® NC	Sto BTS® NC

- A. Sto BTS® Plus — one-component, polymer-modified, cement based high build adhesive.
- B. Sto BTS® Silo — one component, polymer modified cement base high build adhesive specially formulated for use with StoMachine Technology equipment.
- C. Sto Primer/Adhesive-B — one-component, polymer-modified, cement based high build adhesive.
- D. Sto Primer/Adhesive — two-component, acrylic-based adhesive mixed with Portland cement.

- E. Sto Dispersion Adhesive — non-cementitious, acrylic based adhesive.
- F. Sto Fast Set Dry Adhesive/Base — one component, polymer modified, cement based, fast setting high build adhesive.
- G. Sto BTS® NC — one-component, polymer-modified, cement based, non-combustible high build adhesive.

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 Specification for Expanded Polystyrene (EPS) Insulation Board.

2.04 BASE COAT (select one. Select E to supplement others on surfaces that require waterproofing)

Sto Primer/Adhesive-B	Sto BTS® Plus	Sto BTS® Plus
Sto Flexyl	Sto Flexyl	Sto Flexyl
	Sto Fast-Set Dry Adhesive/Base	Sto Fast Set Dry Adhesive/Base

- A. Sto BTS® Plus — one-component, polymer modified, cement based high build base coat with less than 33 percent Portland cement content by weight and capable of achieving minimum 1/16 inch (1.6 mm) thickness in a single pass.
- B. Sto BTS® Silo — one component, polymer modified, cement based high build base coat specially formulated for use with StoMachine Technology labor saving equipment and capable of achieving minimum 1/16 inch (1.6 mm) thickness in a single pass.
- C. Sto Primer/Adhesive-B — one-component, polymer-modified, cement based high build base coat.
- D. Sto Primer/Adhesive — two-component, acrylic-based base coat mixed with Portland cement.
- E. Sto Flexyl — two component, fiber reinforced acrylic based waterproof base coat mixed with Portland cement.
- F. Sto RFP — one component, ready mixed, non-cementitious fiber reinforced acrylic base coat.
- G. Sto Fast Set Dry Adhesive/Base — one component, polymer modified, cement based, high build, fast setting base coat capable of achieving minimum 1/16 inch (1.6 mm) thickness in a single pass.
- H. Sto BTS® NC — one-component, polymer modified, cement based high build non-combustible base coat.

2.05 REINFORCING MESHES

- A. Standard Mesh
 1. Sto Mesh — nominal 4.5 oz./yd² (153 g/m²), symmetrical, interlaced open-weave glass fiber fabric made with alkaline resistant coating for compatibility with Sto materials (achieves Standard Impact Classification).
- B. Ultra-High Impact Mesh
 1. 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" [1.8 m] above finished grade at all areas accessible to pedestrian traffic and other areas exposed to abnormal stress or impact). Achieves Ultra-High Impact Classification when applied beneath Sto Mesh.

2.06 PRIMER (optional component – Required with Sto GraniTex & Sto Decocoat)

- A. Sto Primer — acrylic based tinted primer.

2.07 FINISH COAT (select one)

Sto Essence DPR	Stolit®	StoSilco® Lit
Sto GraniTex		

- A. Stolit® — acrylic based textured wall coating with graded marble aggregate and Optilink® advanced polymer technology.
- B. Sto Essence DPR — acrylic based textured wall coating with marble aggregate and Dirt Pick-up Resistance technology.
- C. StoSilco® Lit — silicone enhanced textured wall coating with graded marble aggregate and Optilink® advanced polymer technology.
- D. Sto Limestone — acrylic based textured wall coating with graded marble aggregate. (requires application of two Stolit® finishes)
- E. Sto GraniTex — acrylic based textured wall coating with variegated colored aggregates.
- F. Sto Decocoat — acrylic based textured wall coating with variegated colored quartz aggregates.

2.08 JOB MIXED INGREDIENTS

- A. Water — Clean and potable.
- B. Portland Cement — Type 1.

2.09 ACCESSORIES

- A. Starter Track — Rigid PVC (polyvinyl chloride) plastic track Part No. STDE as furnished by Plastic Components, Inc., 9051 NW 97th Terrace, Miami, Florida 33178 (800 327-7077).

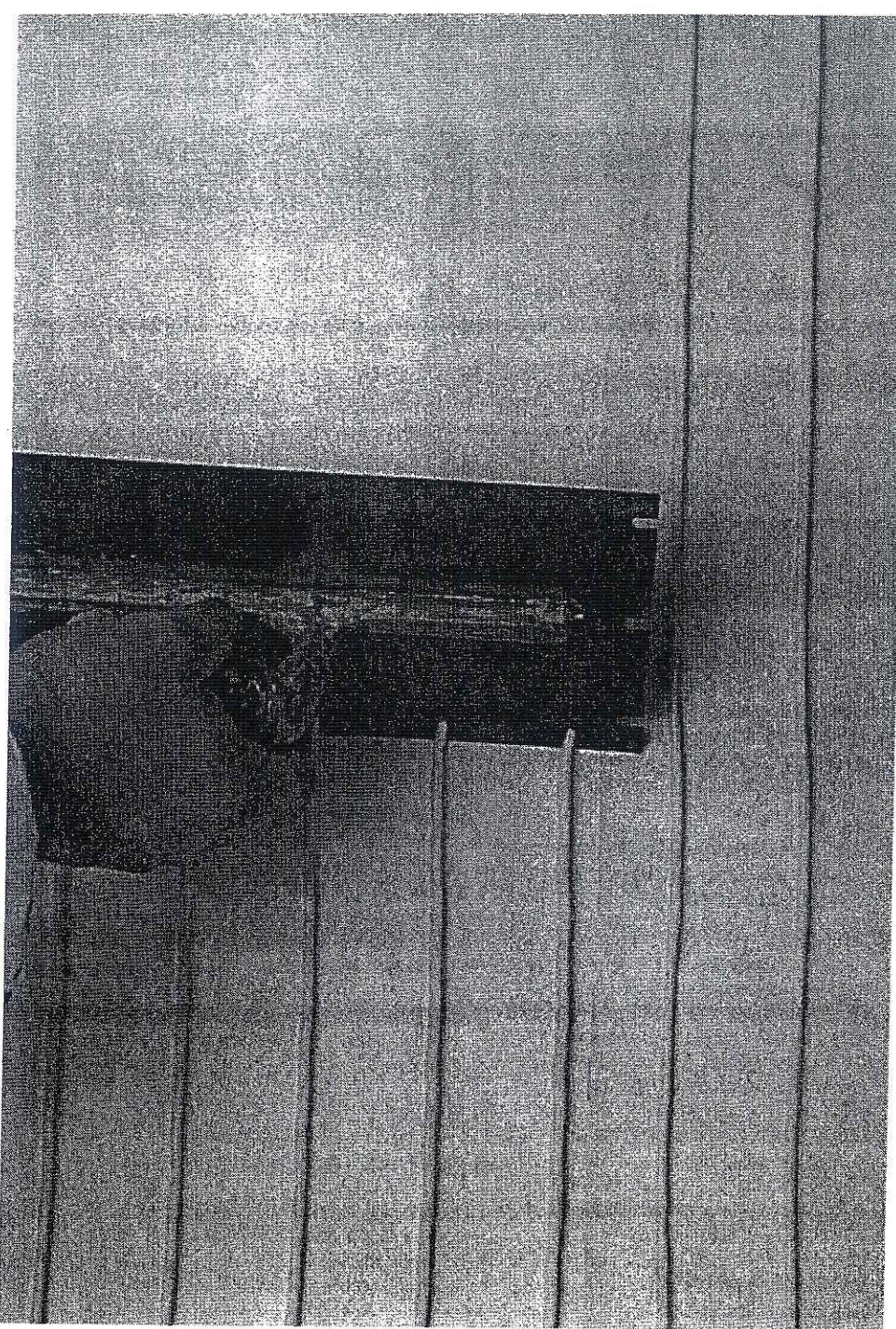
PART 3 EXECUTION

3.01 INSTALLATION

- A. Install Sto System in compliance with manufacturer's published instructions.

3.02 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until fully dry.



Sto Dispersion Adhesive

829

Division 7

Sto Dispersion Adhesive is a ready-mixed acrylic-based adhesive. Sto Dispersion Adhesive is used to attach Sto Insulation Board to prepared concrete, masonry or sheathing substrates in Sto Insulated Wall Claddings, including Sto EIFS NExT®.

Features & Benefits

Ready-mixed

Ready to use; no cement added at job site

Flexible

Bridges normal movement in wood sheathing

100% Acrylic polymers

Excellent adhesion; not brittle; retains flexibility

Water-based

Safe, non-toxic; cleans up with water

Technical Data

TEST	METHOD	CRITERIA	RESULTS
Adhesion (psi)	ASTM C-297	28 days	> 10 - Gypsum Sheathing* > 11 - G-P Dens-Glass® Gold*** > 25 - 3/8" plywood & OSB*
Freeze/Thaw Resistance	EIMA 101.01	No deterioration @ 60 cycles	Pass
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	5 10

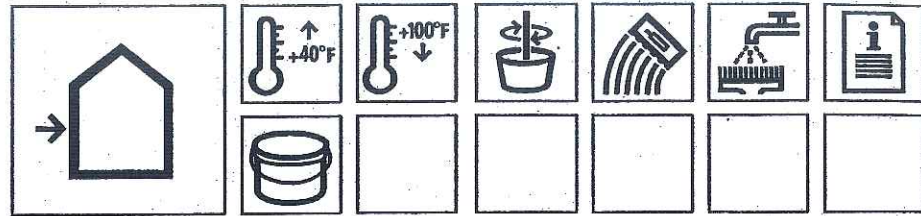
*Failure of substrate

**Dens-Glass® Gold is a registered trademark of G-P Gypsum Corp.



Sto Dispersion Adhesive

829



Coverage

350-385 ft² (32-36 m²) per pail, applied using a U-notched trowel with notches 3/16" wide x 3/8" high (5 mm x 9.5 mm), and notches spaced approximately 1-7/8" (47 mm) apart on center. Coverage may vary depending on application technique and surface conditions.

Packaging

5 gal. pail (19 L)

Shelf Life

12 months, if properly stored and sealed.

Storage

Protect from extreme heat [90° F (32° C)], freezing and direct sunlight. After opening, Sto Dispersion Adhesive will keep for several weeks if properly stored and resealed.

Surface Preparation

Surfaces must be clean, dry, and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by waterblasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

Mixing

Mix with a clean, rust-free electric drill and paddle to a uniform consistency.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Apply Sto Dispersion Adhesive to the back of Sto Insulation Board using a u-notched trowel with notches 3/16" (5 mm) wide and 3/8" (9.5 mm) high with notches spaced approximately 1-7/8" (47 mm) apart on center (see Coverage section for details). Form uniform ribbons of adhesive parallel to the long dimension of the board. Immediately install the board horizontally with staggered joints and apply firm pressure over the entire board surface. Once applied, the working time is up to 15 minutes depending upon material, ambient temperatures and surface conditions.

*NOTE: For drainage of incidental moisture, form adhesive ribbons parallel to the short dimension of the insulation board.

Protect from rain, freezing and continuous high humidity until completely dry.

Curing/Drying

Sto Dispersion Adhesive dries within 24 hours under normal [70° F (21° C), 50% RH] conditions. Drying time varies depending upon temperature/humidity and surface conditions. Allow additional drying time during cold or humid weather before application of primer and finish. For low absorption substrates, including surfaces protected with Sto Guard®, substantially prolonged drying times should be anticipated.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

Use Sto Dispersion Adhesive only when surface and ambient temperatures are above 40° F (4° C) and below 100° F (38° C) during application and drying period. Sto Dispersion Adhesive is not recommended for use when cool damp conditions exist for prolonged periods. Cool damp conditions retard drying and may require extended periods of protection or delay in rasping insulation board surface. Do not use over pressure treated or fire retardant treated wood surfaces. Do not use on damp surfaces or on substrates with high moisture.

Health & Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

Dispose in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet for further health and safety information.

LIMITED WARRANTY

THIS PRODUCT IS SUBJECT TO A WRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM: Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119.

Refer to Sto specifications for more complete information on proper use and handling of this product.

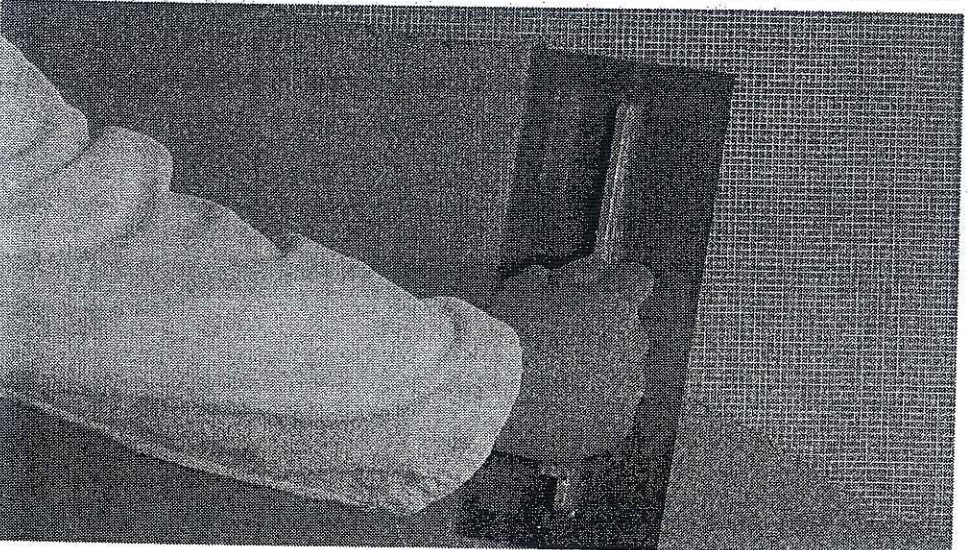
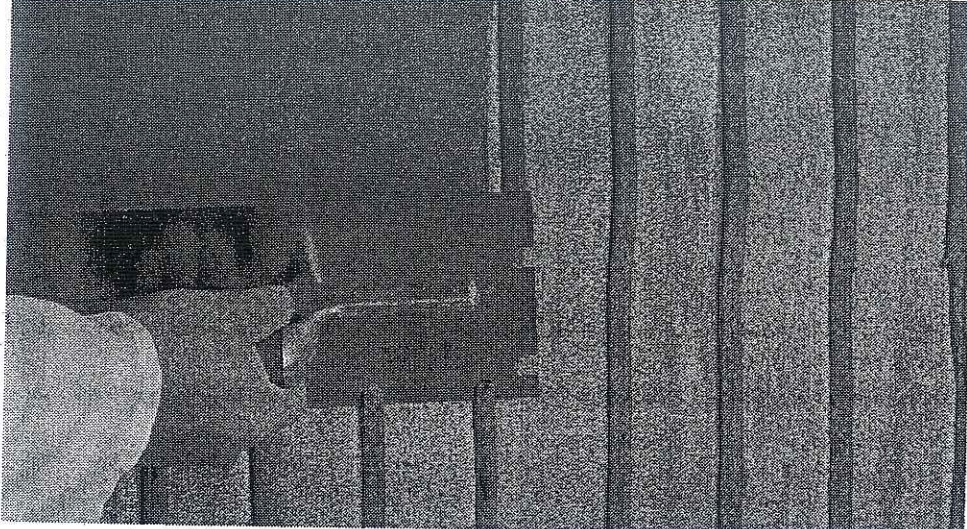
Sto Corp.

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100% ACRYLIC
POLYMERS

S155-829 03/04 VEN 5609



Sto Primer/ Adhesive-B

101

Division 7

Sto Primer/Adhesive-B is a one-component, polymer-modified, cement based, dry powder material used as an adhesive and base coat in Sto Essence Insulated Wall Claddings, including Sto Essence NExT®.

Features & Benefits

One-component:
Ready to use; easily mixed with water on the job site

Polymer-modified
Excellent adhesion; increases durability and freeze/thaw resistance

Creamy smooth consistency
Trowels on easily; increases productivity

Vapor permeable
Allows substrate to breathe naturally; resists blisters caused by trapped vapor

Factory blended Portland cement
Assures performance mix ratio

Low cement ratio
Less alkalinity, less free lime, less efflorescence

Bagged powder product
Less solid waste than pails; freezing protection not required prior to use

Technical Data

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread	0
		< 450 Smoke Developed	5
Adhesion (psi)	ASTM C-297 Modified	28 days	> 20 - Gypsum Sheathing*
			> 15 - EPS Board*
			> 80 - Concrete Block*
			> 35 - Dens-Glass® Gold* **
Impact Strength	EIMA 101.86	Standard Impact Classification	Pass

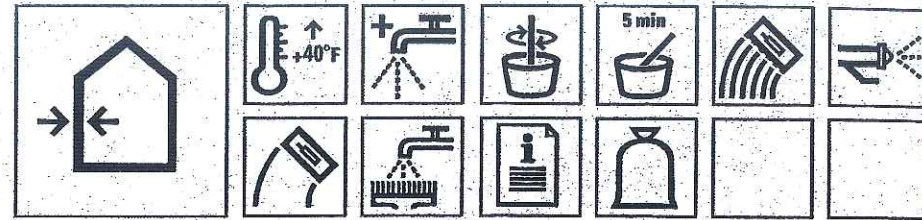
*Failure of substrate

**Dens-Glass® Gold is a registered trademark of G-P Gypsum Corp.



Sto Primer/ Adhesive-B

101



Coverage

"Through the wall": 65-80 ft² (6.0 - 7.4 m²) per bag (when used for both adhesive and base coat applications).

As an adhesive over sheathing: 110-150 ft² (10.2-13.9 m²) per bag, applied with a 1/2" x 1/2" (13 mm x 13 mm) U-notched trowel having 2" (51 mm) spread between notches.

As an adhesive over masonry: 100-120ft² (9.3-11.1 m²) per bag, applied with a 5/8" x 5/8" (16 mm x 16 mm) square-notched trowel, having 5/8" (16 mm) spread between notches.

As a base coat: 90 -140 ft² (8.4-13 m²) per bag.

As a skim coat: 110-160 ft² (10.2-14.9 m²) per bag.

Coverages may vary depending on application technique and surface conditions.

Packaging

60 lb. bag (27 kg)

Shelf Life

12 months, if properly stored and protected from moisture.

Storage

Store off the ground in a dry area. Protect from extreme heat [90° F (32° C)], moisture and direct sunlight.

Surface Preparation

Concrete and masonry surfaces: Surfaces must be clean, dry, and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, form oil, and other foreign matter. Loose or damaged material must be removed by waterblasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D4261 for complete details on methods of preparing cementitious substrates for coatings.

Sto Exterior Insulation and Finish Systems

(EIFS): Insulation board must be rasped and free of all bond-inhibiting materials.

Sheathing: (Gypsum sheathing in compliance with ASTM C-79 or Glass Mat faced gypsum sheathing in compliance with ASTM C-1177 [such as G-P Dens-Glass® Gold]). Surface must be clean, dry and free of frost, damage and of all bond-inhibiting materials. Sheathing must be installed and protected in accordance with manufacturer's requirements. Remove and replace weather damaged sheathing. Avoid application over irregular, out of plane surfaces.

Mixing

Use 6-8 quarts (5.7-7.6 L) of water per 60 lb. bag (27 kg). Mix automatically using Sto's Continuous Mixer, or mix 1/2 bag at a time by adding Sto

Primer/Adhesive-B to 3-4 quarts (2.8-3.8 L) of clean, potable water in a clean mixing pail. Mix with a clean, rust-free electric drill and paddle. Allow to set approximately five minutes, adjust mix if necessary by adding up to 1/2 pint (.24 L) of water per 1/2 bag, remix to a uniform consistency. Avoid retempering after mixing of product. Do not exceed maximum amount of water in mix ratio.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

As an adhesive: Apply to the back of insulation board with the appropriate size notched trowel, or directly onto the substrate using Sto's M-8 Spray Pump, then the appropriate sized notched trowel. Form uniform ribbons of adhesive parallel to the long* dimension of the board. Immediately install the board horizontally with staggered joints and apply firm pressure over the entire board surface.

*NOTE: For Sto Essence.NEXT®, form adhesive ribbons parallel to the short dimension of the insulation board.

As a base coat: Apply with spray equipment such as Sto's M-8 Spray Pump or a stainless steel trowel to an approximate thickness of 1/8" (3 mm). Work horizontally or vertically in strips of 40" (1 m) and immediately embed Sto Mesh in the wet Sto Primer/Adhesive-B by troweling from the center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Minimum recommended dry thickness of the reinforced base coat is 1/16" (1.6 mm) when dry. Reapply additional base coat if necessary to achieve minimum thickness as soon as the first application is dry.

As a skim coat: Apply in one application to a maximum thickness of 1/16 (1.6 mm) to the prepared surface and smooth the surface.

Protect from rain, freezing, and continuous high humidity until completely dry.

Sto recommends priming using the appropriate Sto Primer prior to application of finish.

Curing/Drying

Dries within 24 hours under normal (70° F (21° C), 50% RH) drying conditions. Allow additional drying time during cold and/or humid weather before application of primer and finish to hardened Sto Primer/Adhesive-B. Sto recommends priming using the appropriate Sto Primer prior to finish application.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

Use Sto Primer/Adhesive-B only when surface and ambient temperatures are above 40° F (4° C) during application and drying period. Sto Primer/Adhesive-B should not be used on weather exposed

horizontal or below grade surfaces, or where immersion in water may occur.

Sloped surfaces: Refer to Sto details.

Sto Primer/Adhesive-B should not be used as a finish coating. It should not be used over wood surfaces except for wood sheathing surfaces protected by Sto Guard®.

Health & Safety

Health Precautions

Contains Portland cement and crystalline-free silica. Avoid breathing dust.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect in an appropriate container. Uncured material may be removed with water.

Disposal

Dispose in accordance with local, state or federal regulations.

Warning

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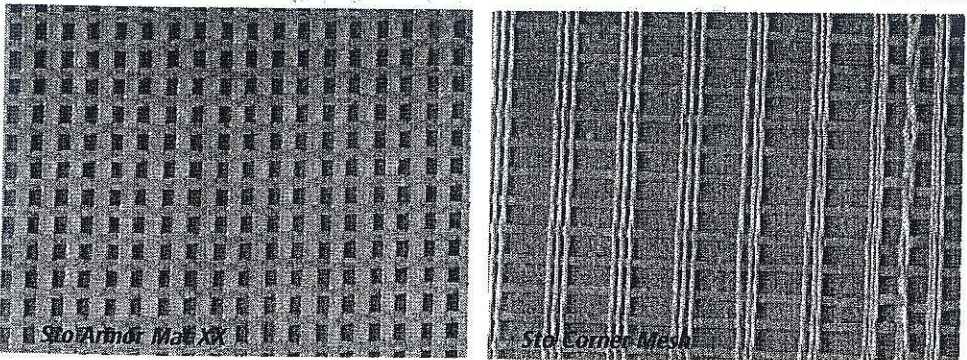
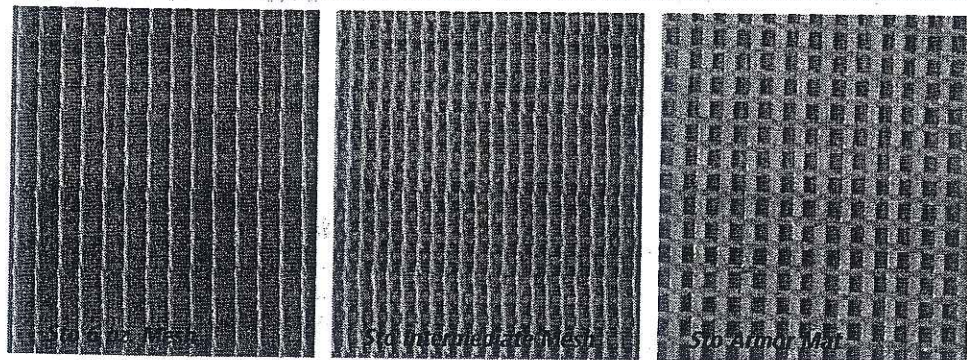
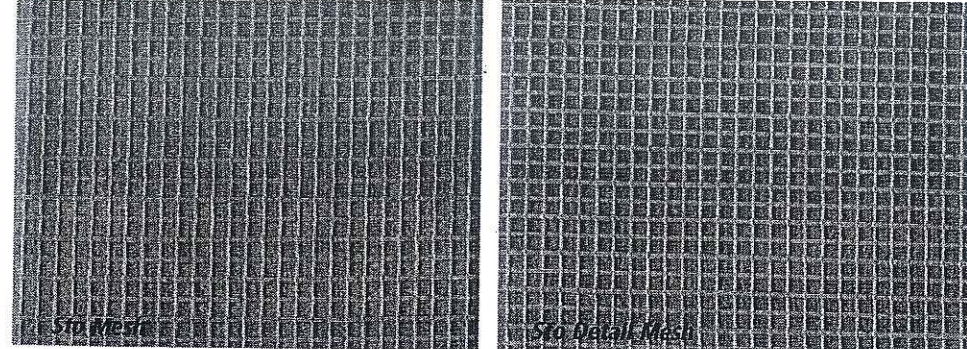
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S155-101 02/04 VEN 5609





Sto Reinforcing Meshes

- 920E Sto Mesh
- 919 Sto Detail Mesh
- 985 Sto 6 oz. Mesh
- 918 Sto Intermediate Mesh
- 921 Sto Armor Mat
- 922 Sto Armor Mat XX
- 921A Sto Corner Mesh

Division 7

Sto Reinforcing Meshes are specially designed coated glass fiber fabrics used for impact resistance in Sto Insulated Wall Claddings, including Sto EIFS NEXt®. A variety of meshes are provided for design flexibility, maximum performance, and to facilitate application.

Features & Benefits

Flexible

Easily wrapped at corners; provides crack resistance

Trimmed edges

Minimizes building on overlapped seams

Coated glass fiber

Durable, long-lasting; provides impact resistance

Variety of weights available

Meet a wide variety of requirements

Technical Data

DESCRIPTION	NOMINAL				Tensile Strength (ASTM D-5035)		Strength - Post Alkaline Soak (EIMA105.01)
	WT/SQ. YD. ± 5%	WIDTH OF ROLL	LENGTH OF ROLL	COVERAGE/ ROLL (SF·M ²)	WARP (PLI)	WEFT (PLI)	
Sto Mesh #920E	4.5 oz.	38" (.97 m) 48" (1.22 m)	150' (45.7 m)	475 ft ² (44.1 m ²) 600 ft ² (55.7 m ²)	150	160	Pass
Sto Detail Mesh #919	4.2 oz.	9.5" (24 cm)	150' (45.7 m)	118 ft ² (11 m ²)	150	160	Pass
Sto 6 oz. Mesh #985	6.0 oz.	38" (.97 m)	150' (45.7 m)	475 ft ² (44.1 m ²)	140	225	N/A
Sto Intermediate Mesh #918	11 oz.	38" (.97 m)	75' (22.9 m)	238 ft ² (22.1 m ²)	300	460	N/A
Sto Armor Mat #921	15 oz.	38" (.97 m)	75' (22.9 m)	238 ft ² (22.1 m ²)	350	540	N/A
Sto Armor Mat XX #922	20 oz.	38" (.97 m)	75' (22.9 m)	246 ft ² (22.9 m ²)	875	500	N/A
Sto Corner Mat #921A	7.6 oz.	9.5" (24 cm)	150' (45.7 m)	118 ft ² (11 m ²)	N/A	500	N/A

Impact Resistance

System	Impact classification (inch-lbs.)*				
	Standard (25-49)	Medium (50-89)	High (90-150)	(over	Ultra High (150)
Sto EIFS with Sto Mesh	X				
With 2 layers Sto Mesh		X			
With Sto Intermediate Mesh			X		
With Sto Armor Mat & Sto Mesh					X



Sto Reinforcing Meshes

920E Sto Mesh

919 Sto Detail Mesh

985 Sto 6 oz. Mesh

918 Sto Intermediate Mesh

921 Sto Armor Mat

922 Sto Armor Mat XX

921A Sto Corner Mesh

Where to Use

Sto Mesh: for use as standard reinforcing fabric in Sto Wall Claddings. Achieves standard impact resistance.

Sto Detail Mesh: lightweight, highly flexible reinforcing fabric specially designed for use to facilitate back-wrapping system terminations, into reveals and for intricate architectural details in Sto Wall Claddings, and to bridge sheathing joints and wrap rough openings in Sto Guard® applications.

Sto 6 oz. Mesh: for use as a standard reinforcing fabric in Sto Wall Claddings. Exceeds standard impact resistance.

Sto Intermediate Mesh: for use as a reinforcing fabric in Sto Wall Claddings. Achieves high impact resistance.

Sto Armor Mat: for use at ground floors and other areas of anticipated impact in Sto Wall Claddings. Achieves ultra-high impact resistance when used beneath Sto Mesh.

Sto Armor Mat XX: Sto's heaviest reinforcing fabric, for use at ground floors and other areas of anticipated impact in Sto Wall Claddings. Exceeds ultra-high impact resistance when used beneath Sto Mesh.

Sto Corner Mesh: A pre-creased, heavy-duty reinforcing fabric, specially designed for use for enhanced impact protection plus crisp lines and ease of application at both inside and outside corners in Sto Wall Claddings.

Packaging

Sto Mesh: 4 rolls per carton

Sto Detail Mesh: 16 rolls per carton

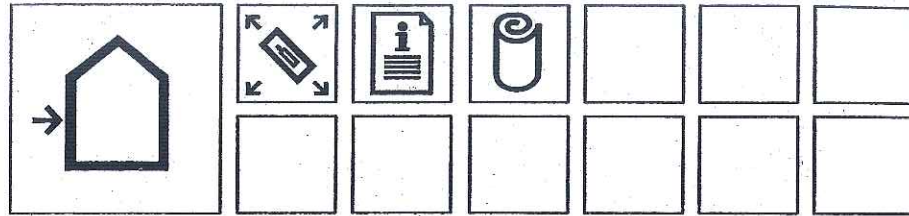
Sto 6 oz. Mesh: 4 rolls per carton

Sto Intermediate Mesh: 4 rolls per carton

Sto Armor Mat: 2 or 4 rolls per carton

Sto Armor Mat XX: 1 or 2 rolls per carton

Sto Corner Mat: 4 rolls per carton



Shelf Life

2 years in original, unopened container when properly stored.

Storage

Store in a dry area. Protect from direct sunlight. Store in cartons with cartons on side (not upright).

Surface Preparation

Inspect the insulation board surface for planeness, damage or deterioration due to weather or abuse, and repair prior to application of reinforcing mesh. Rasp the insulation board surface.

Application

Sto Mesh/ Sto 6 oz. Mesh/Sto Intermediate Mesh: Apply a layer of Sto base coat over previously rasped Sto Insulation Board. Work horizontally or vertically in full width strips and fully embed mesh into wet base coat by troweling from center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Double wrap mesh at all corners and overlap not less than 2-1/2" (64 mm) at mesh joints.

Sto Detail Mesh/Sto Corner Mesh: Refer to appropriate Sto Wall Claddings specification.

Sto Armor Mat/Sto Armor Mat XX: Apply a layer of Sto base coat over previously rasped Sto Insulation Board. Work horizontally or vertically in full width strips and immediately embed Sto Armor Mat into the wet base coat. Butt Sto Armor Mat tightly at seams. Apply Sto Mesh with appropriate base coat over the Sto Armor mat application when dry.

Limitations

Sto Reinforcing Meshes should only be used in accordance with appropriate Sto Insulated Wall Cladding Specification or other published recommendations.

Health & Safety

Health Precautions

Contains fiberglass. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Use of a NIOSH/MSA-approved dust respirator, safety goggles and protective gloves is recommended.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Disposal

Dispose in accordance with local, state or federal regulations.

Warning

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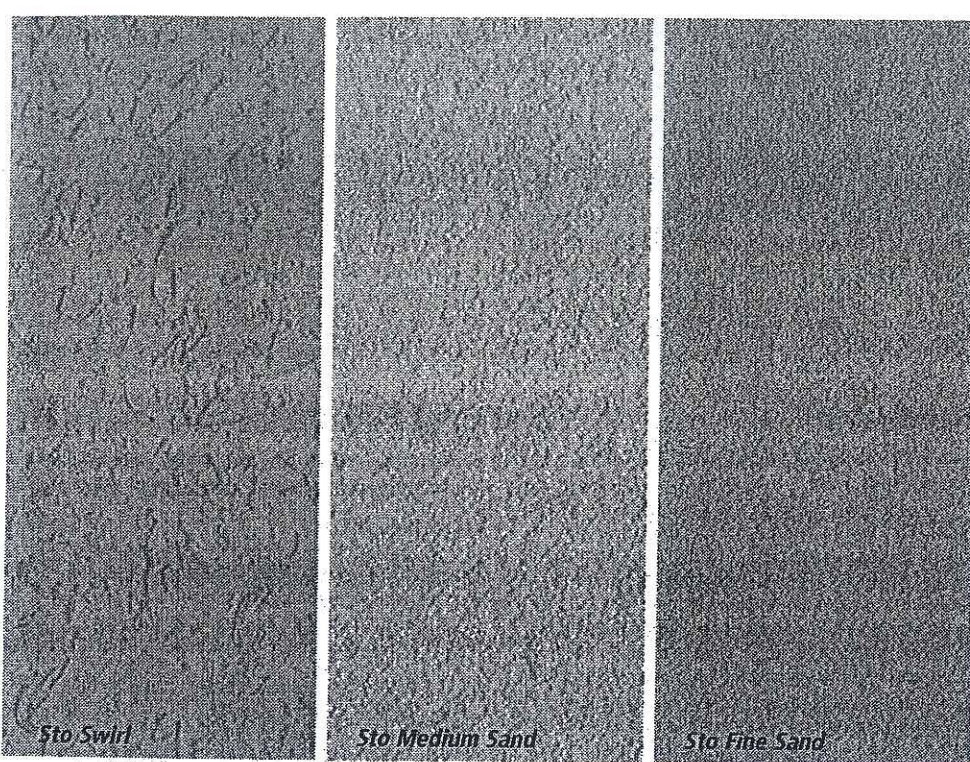
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Sto Essence DPR Finishes

307 Sto Swirl Finish

306 Sto Medium Sand Finish

310 Sto Fine Sand Finish

Division 7

Sto Essence DPR Finishes are ready-mixed, acrylic-based exterior or interior textured finishes used as a decorative and protective wall coatings over prepared vertical concrete, masonry and plaster substrates and in Sto's Essence Wall Claddings, including Sto Essence NExt®.

Technical Data

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5
Flexibility	ASTM D-522	4" mandrel bend	Pass
Water Vapor Transmission (U. S. perms)	ASTM E-96 Method B	28 days	34
Accelerated Weathering	ASTM G-53	2000 hours	No deleterious effects @ 3000 hrs
Chalk Rating	ASTM D-4214	5000 hours	8 (10 = best on scale 1-10)
Yellowness Index	ASTM E-313	5000 hours	0.58 (0 = no change; 2 = barely discernable change)
Freeze-thaw Resistance	EIMA 101.01	60 cycles	No deleterious effects @ 60 cycles
Mildew Resistance	ASTM D-3273	No growth @ 28 days	No growth @ 28 days
Salt Spray Resistance	ASTM B-117	300 hours	No deleterious effects @ 300 hours
Wind Driven Rain	Fed TT-C-555B	24 hour driving rain	No water penetration
Water Resistance	ASTM D-2247	14 days	No deleterious effects @ 28 days
Abrasion Resistance	ASTM D-968	528 qt. sand	No cracking, checking or loss of film integrity @ 528 qts.
Tensile Adhesion (psi)	EIMA 101.03	No failure in the EIFS adhesive, base coat or finish. Minimum 5 psi.	Pass
Adhesion	ASTM C-297	28 days	> 80 to concrete
Fire Resistance	ASTM E-119	No effect on fire resistance rating of existing rated assembly	Pass

Features & Benefits

Vapor permeable

Allows substrate to breathe naturally, resists blisters caused by trapped water vapor

Moisture resistant

Repels water; resists wind driven rain

Water-based

Safe, non-toxic; cleans up with water

Dirt pick-up resistant

Resists mildew and algae growth; low maintenance

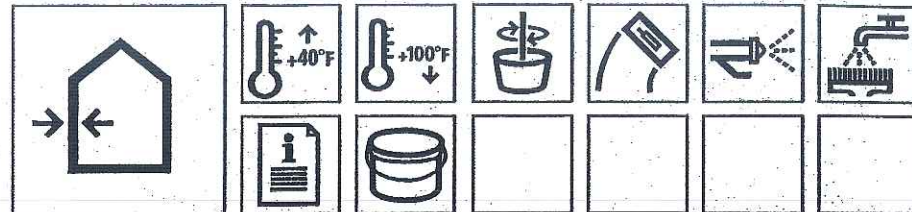
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Sto Essence DPR Finishes

307 Sto Swirl Finish

306 Sto Medium Sand Finish

310 Sto Fine Sand Finish



Coverage

Sto Swirl Finish: 120-140 ft²

(11.1-13.0 m²) per pail

Sto Medium Sand Finish: 110-130 ft²

(10.2-12.1 m²) per pail

Sto Fine Sand Finish: 140-160 ft²

(13.0-14.9 m²) per pail

Coverages may vary depending on application technique and surface conditions.

Packaging

5 gal. pail (19 L)

Shelf Life

12 months, if properly stored and sealed.

Storage

Protect from extreme heat [90° F (32° C)], freezing, and direct sunlight.

Surface Preparation

Concrete and masonry surfaces: Surfaces must be clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by waterblasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-1258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

Sto Exterior Insulation and Finish Systems (EIFS)

Surface must be free of all bond-inhibiting materials.

Gypsum wallboard surfaces:

Wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond-inhibiting materials. Surface must be primed with appropriate Sto Primer.

Sto recommends priming cementitious substrates using the appropriate Sto primer prior to application of finish.

Mixing

Mix with a clean, rust-free electric drill and paddle to a uniform consistency. A small amount of clean water may be added to aid workability. Limit addition of water to amount needed to achieve the finish texture.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Trowel: Apply Sto Essence Finishes with a clean stainless steel trowel to a rough thickness slightly more than the largest aggregate size. Use the trowel to scrape the material down to a uniform thickness no greater than the largest aggregate size. Achieve final texture by floating with the appropriate trowel in a figure eight motion; stainless steel trowel for Sto Medium Sand and Sto Fine Sand (pebbled texture finish) and plastic float for Sto Swirl Finish (rilled texture). Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

Spray: Apply Sto Essence Finishes with a hand-held gravity-feed hopper-type sprayer, texture spray pump machine, or other appropriate equipment such as the StoSilo system or Sto's M-8 Spray Pump. Apply an even coat to ensure full coverage of the surface. (Spray application is not recommended for Sto Swirl Finish.)

IMPORTANT: ALWAYS check color for proper match. If color does not match, STOP—call your Sto representative. For best results always prime cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch to batch (refer to batch no. on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. Sto Corp. will not be responsible for shade or color variation from batch to batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Curing/Drying

Sto Essence Finishes dry within 24 hours under normal [70° F (21° C), 50% RH] conditions. Drying time varies with temperature/ humidity and surface conditions.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

Use Sto Essence Finishes only when surface and ambient temperatures are above 40° F (4° C) and below 100° F (38° C) during application and drying period. For Exterior Insulation and Finish Systems (EIFS), select finish colors with a lightness value of 20 or greater. Sto Essence Finishes should not be used on weather-exposed horizontal, below grade or water immersed surfaces.

Sloped surfaces: refer to Sto details.

Health & Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

Dispose in accordance with local, state or federal regulations.

Warning

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