## **SECTION 061600 - SHEATHING** PART 1 - GENERAL 1.1 SUMMARY A. Section Includes: Wall sheathing. 2. Sheathing joint and penetration treatment. 1.2 ACTION SUBMITTALS A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details. PART 2 - PRODUCTS 2.1 FIRE-RETARDANT - TREATED PLYWOOD A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency. B. Fire-Retardant-Treated Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test 1. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated. 2. Design Value Adjustment Factors: Treated lumber plywood shall be tested according ASTM D 5516 and design value adjustment factors shall be calculated according to ASTM D 6305. Span ratings after treatment shall be not less than span ratings specified. C. Kiln-dry material after treatment to a maximum moisture content of 15 percent. D. Identify fire-retardant-treated plywood with appropriate classification marking of qualified testing agency. E. Application: Treat all plywood unless otherwise indicated Retain first option in "Application" Paragraph below if all wood is required to be fire-retardant treated; otherwise, retain second option. 2.2 WALL SHEATHING A. Plywood Wall Sheathing: Fire-Retardant treated plywood exterior type. B. Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M. 1. Type and Thickness: Type X, 5/8 inch (15.9 mm) thick. A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture. 1. For and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M. 2.4 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS A. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant complying with ASTM C 834, compatible with sheathing tape and sheathing and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners. 1. Sheathing Tape: Self-adhering glass-fiber tape, minimum 2 inches (50 mm) wide, 10 by 10 or 10 by 20 threads/inch (390 by 390 or 390 by 780 threads/m), of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing and with a history of successful in-service PART 3 - EXECUTION A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated. C. Securely attach to substrate by fastening as indicated, complying with the following: 1. NES NER-272 for power-driven fasteners. 2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code." D. Coordinate wall sheathing installation with flashing and joint-sealant installation so these materials are installed in 3.2 WOOD STRUCTURAL PANEL INSTALLATION for types of structural-use panels and applications indicated.

sequence and manner that prevent exterior moisture from passing through completed assembly. E. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide, B. Fastening Methods: Fasten panels as indicated below: 1. Wall Sheathing: Fire-Retardant Treated Exterior Plywood Screw to cold-formed metal framing b. Space panels 1/8 inch (3 mm) apart at edges and ends. of each day's work and at start of each roof area or plane. Do not proceed with roofing work if moisture

3.3 GYPSUM SHEATHING INSTALLATION A. Comply with GA-253 and with manufacturer's written instructions. 1. Fasten gypsum sheathing to cold-formed metal framing with screws. 2. Install boards with a 3/8-inch (9.5-mm) gap where non-load-bearing construction abuts structural elements. 3. Install boards with a 1/4-inch (6.4-mm) gap where they abut masonry or similar materials that might retain moisture, B. Seal sheathing joints according to sheathing manufacturer's written instructions. 1. Apply elastomeric sealant to joints and fasteners and trowel flat. Apply sufficient amount of sealant to completely cover joints and fasteners after troweling. Seal other penetrations and openings.

2. Apply glass-fiber sheathing tape to glass-mat gypsum sheathing joints and apply and trowel silicone emulsion sealant to embed entire face of tape in sealant. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and openings.

END OF SECTION

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SECTION 070150.19 - PREPARATION FOR REROOFING:
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B. Full Roof Tear-Off: Removal of existing roofing system from deck.

2.1. INFILL AND REPLACEMENT MATERIALS

2.3. PREPARATION

**END OF SECTION** 

1.1. SUMMARY A. Section Includes: 1. Full tear-off of roof areas indicated. 2. Removal of base flashings.

PART 1 - GENERAL

1.2. DEFINITIONS A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.3. ACTION SUBMITTALS A. Product Data: For each type of product. B. Temporary Roofing Submittal: Product data and description of temporary roofing system. If temporary roof remains in place, include surface preparation requirements needed to receive permanent roof, and submit a letter from roofing manufacturer, stating acceptance of the temporary roof and that its inclusion

does not adversely affect the roofing system's resistance to fire and wind or its FM Global rating. 1.4. INFORMATIONAL SUBMITTALS A. Photographs or Videotape: Show existing conditions of adjoining construction and site improvements,

including exterior and interior finish surfaces, that might be misconstrued as having been damaged by reroofing operations. Submit before Work begins. 1.5. QUALITY ASSURANCE A. Installer Qualifications: Approved by warrantor of existing roofing system to work on existing roofing.

1.6. FIELD CONDITIONS A. Owner will occupy portions of building immediately below reroofing area. Conduct reroofing so Owner's operations are not disrupted. 1. Coordinate work activities daily with Owner so Owner can place protective dust and water-leakage covers over sensitive equipment and furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below work area. 2. Before working over structurally impaired areas of deck, notify Owner to evacuate occupants from

below affected area. Verify that occupants below work area have been evacuated before proceeding with work over impaired deck area. B. Protect building to be reroofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations. C. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. D. Limit construction loads on roof for rooftop equipment wheel loads and for uniformly distributed loads.

E. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building. PART 2 – PRODUCTS

A. Use infill materials matching existing roofing system materials unless otherwise indicated. 2.2. AUXILIARY REROOFING MATERIALS A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new roofing system.

A. Protect existing roofing system that is not to be reroofed. B. Coordinate with Owner to shut down air-intake equipment in the vicinity of the Work. Cover air-intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors

C. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast. 2.4. ROOF TEAR-OFF

A. General: Notify Owner each day of extent of roof tear-off proposed for that day and obtain authorization to B. Full Roof Tear-Off: Where indicated, remove existing roofing and other roofing system components down to the deck. 1. Bitumen and felts that are firmly bonded to concrete decks are permitted to remain if felts are dry. Remove unadhered bitumen, unadhered felts, and wet felts.

2. Remove fasteners from deck. 2.5. DECK PREPARATION A. Inspect deck after tear-off of roofing system. B. Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263 or by pouring 1 pint (0.5 L) of hot roofing asphalt on deck at start

condenses under plastic sheet or if asphalt test sample foams or can be easily and cleanly stripped after C. If broken or loose fasteners that secure deck panels to one another or to structure are observed, or if deck appears or feels inadequately attached, immediately notify Architect. Do not proceed with installation until directed by Architect D. If deck surface is unsuitable for receiving new roofing or if structural integrity of deck is suspect, immediately notify Architect. Do not proceed with installation until directed by Architect.

2.6. INFILL MATERIALS INSTALLATION A. Immediately after roof tear-off, and inspection and repair, if needed, of deck, fill in tear-off areas to match existing roofing system construction. B. Install new roofing patch over roof infill area. If new roofing is installed the same day tear-off is made, roofing patch is not required.

2.7. BASE FLASHING REMOVAL A. Remove existing base flashings. Clean substrates of contaminants, such as asphalt, sheet materials, dirt, B. Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings of same metal, weight or thickness, and finish.

A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site. B. Transport and legally dispose of demolished materials off Owner's property.

SECTION 072400.13 - REPAIR OF EXTERIOR INSULATION AND FINISH (EIFS) WALL ASSEMBLIES

CONTACT LA QUINTA STO REPRESENTATIVE : CHUCK DUFFIN STO CORP. OFFICE: 940-894-2092 CELL: 940-366-1159

PART - GENERAL

A. This section includes repair, restoration, and refinishing of existing EIFS systems. B. Repair distress and construction deficiencies of exterior insulation and finish system (EIFS) cladding. C. Repair nonstructural EIFS base coat and finish. (Note: the combination of EIFS base coat, reinforcing mesh and finish may be referred to as "EIFS lamina" and, for purposes of this specification, treated as a single construction element.)

F. Provide back wrap EIFS terminations at grade, expansion joints, and perimeters of wall openings and

insulation and window/door frames. Install backer rod and sealant joint at perimeters of window, doors and

G. Indicate on the project drawings locations where resurfacing, refinishing, and/or recoating is required.

H. Provide detail drawings consistent with Sto guideline details and Sto product installation instructions.

I. As an option to flashing as noted in 1.4 D7, apply waterproof base coat with reinforcing mesh to standard

elements. Slope projecting elements sufficiently to provide drainage to the exterior. Protect these surfaces

up, bird droppings, excess wear, and other issues may occur that necessitate frequent maintenance of

A. Provide in-place mockup of each type of EIFS repair or modification indicated in Drawings.

EIFS base coat on the top surfaces of projecting elements and immediately above and below the projecting

with horizontal grade coating. IMPORTANT: Limit this option to small and to easily accessible areas. Dirt pick-

1. EIFS material manufacturer shall be experienced provider of cementitious and polymer-based materials for

3. EIFS manufacturer shall have current valid code evaluation reports which list the EIFS materials to be used.

1. Contractor shall be licensed and insured and shall have been engaged in EIFS and EIFS repair construction

4. Contractor shall have completed minimum three projects of similar size, scope and complexity to the project

5. Contractor shall provide the proper equipment, manpower and supervision on the job site to perform the

repair procedures in accordance with Sto's published repair specifications, applicable Sto details and the

inspections shall be provided as required by the authority having jurisdiction. 2. Inspectors shall be qualified by

experience to evaluate field conditions before and during the repair process and shall be familiar with the

demolition of the EIFS is completed and before any existing flashing is removed. Verify that the proposed

5. Inspect the condition of the water-resistive barrier and transition elements for visible evidence of material

repair is constructible and will function in the manner intended based on the visible conditions. Resolve any

6. Inspect the conditions of newly installed or replaced flashing and water-resistive barrier components before

accordance with the repair detail design. Verify visible continuity of the water-resistive barrier system to direct

B. Protect liquid products (pails) from freezing and temperatures greater than 90 degrees F (32 degrees C).

A. Apply materials only when surface and ambient temperatures are above 40 degrees F (4 degrees C) and

C. Provide protection of surrounding areas and adjacent surfaces from spillage, splatter, overspray or other

B. Do not start repairs in an area unless sufficient work can be completed such that the area is weather-tight at

C. Coordinate with all trades involved to schedule work to result in the proper sequencing of materials within

B. Provide supplementary heat for installation in temperatures less than 40 degrees F (4 degrees C).

the end of the work shift. Alternatively allow sufficient time before the end of the work shift to provide

D. Schedule finish and coating application to large areas such that each day's application will end at an

C. Protect portland cement based materials (bag products) from moisture and humidity. Store under cover and

1. Quality control inspections shall be provided for by the owner or owner's representative. Special

4. Inspect locations of flashing repair and other locations where existing EIFS must be removed after

installing the replacement insulation. Verify that flashing and water-resistive barrier installation is in

A. Deliver all materials in their original sealed containers bearing manufacturer's name and product

are expected to remain above 40 degrees F (4 degrees C) for 24 hours after application.

visible construction detail conflicts with the repair designer before proceeding with the repair.

2. EIFS manufacturer shall have a manufacturing quality control system that is certified to comply with ISO

9001-2008 and an environmental quality management system certified to comply with ISO 14001-2004.

2. Contractor shall be knowledgeable in the proper handling, use and installation of Sto materials...

3. Contractor shall employ skilled mechanics who are experienced and knowledgeable in the repair

mechanical penetrations. Provide minimum ½-inch-wide (12.5 mm) space between the back wrapped

D. Repair flashing and waterproofing deficiencies at EIF system terminations. E. Resurface wall to provide uniform appearance in accordance with owner's requirements. 1.2 SUBMITTALS

A. EIFS, repair materials, and coating manufacturers' specifications, details, installation instructions and B. Manufacturer's standard material warranty for each product or system to be used. C. A list of minimum three job references.

1.3 REFERENCES A. ASTM Standards 1. ASTM C 578, Specification for Foam Plastic Insulation 2. ASTM C 920. Specification for Elastomeric Joint Sealants 3. ASTM C 1382, Specification for Sealants for EIFS 4. ASTM E 2430, Specification for EIFS Reinforcing Mesh 5. ASTM E 2568, Specification for EIFS 6. ASTM E 2570, Specification for Water-resistive Barrier Coatings B. Other References 1. StoTherm EIFS Reference Guide: Repair and Maintenance 2. Sto reStore Cleaning Specification 3. Sto Specification A100G, StoTherm Classic NExT Guide Specification a. L100, StoTherm Lotusan 4. ICC-ES ESR-1748 StoTherm NExT Evaluation Report

1.4 DESIGN REQUIREMENTS A. Determine repair scope and detail design requirements based on inspection of the field conditions. B. Provide crack repair detail for cracks not wider than 1/16-inch (1.6 mm) nominal width C. Provide crack repair detail for cracks wider than 1/16-inch (1.6 mm) but not wider than 1/8-inch (3.2 mm) D. Provide flashing installation, repair and/or replacement details for applicable conditions and indicate A. Comply with insulation manufacturer's written instructions applicable to products and applications indicated.

mechanical penetrations.

projecting elements.

1.6 QUALITY ASSURANCE

B. Contractor requirements

for minimum three years.

being specified.

identification

architectural break.

1.10 WARRANTY

contract documents.

C. Inspection requirements

integrity and continuity of the system.

Do not store in direct sunlight.

off of the ground in a dry location.

1.8 PROJECT/SITE CONDITIONS

1.9 COORDINATION AND SCHEDULING

water to the exterior of the wall via the flashing.

1.7 DELIVERY, STORAGE AND HANDLING

unintended contact with the materials that are being applied.

A. Provide manufacturer's standard warranty for products used.

temporary weather protection until work can resume.

A. Schedule repairs to permit inspections where specified in Section 1.5.

the repair (proper lapping of water resistive system components and flashing).

A. Manufacturer's requirements

use in EIFS construction and repair for minimum 25 years.

procedures and requirements of the specified project.

specified repair procedures prior to commencement of work.

3. Inspections shall be provided at key intervals during each repair.

7. Inspect the final appearance of each repair location to verify compliance.

continuous drainage to the exterior of the wall.

locations of each repair on project drawings. Flashing remediation shall be based on standard flashing B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at requirements listed below and indications of distress or leakage observed during inspection. C. Extend insulation to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with 1. Provide head flashing above all window and door openings. insulation. Remove projections that interfere with placement. 2. Provide flashing at the bottom of the EIF system. D. Provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and 3. Provide flashing at floor line expansion joints in multi-story construction. lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise 4. Terminate EIFS minimum 2-inches (51 mm) above paved grade and roofing materials. shown or required to make up total thickness. 5. Terminate EIFS minimum 4-inches (102 mm) above soil and landscaped finished grades. 6. Provide metal cap flashing for parapets. Cap flashing shall be sloped to drain water onto the roof system. 3.2. INSTALLATION OF INSULATION FOR FRAMED CONSTRUCTION 7. Provide metal flashing for non-vertical or low slope projections to drain water away from the wall exterior. E. Integrate all flashing repair and replacement with the water-resistive barrier system to provide direct and

A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units. B. Glass-Fiber or Mineral-Wool Blanket Insulation: Install in cavities formed by framing members according to the following requirements: C. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members. D. Maintain 3-inch (76-mm) clearance of insulation around recessed lighting fixtures not rated for or protected from E. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:

1. Spray Polyurethane Insulation: Apply according to manufacturer's written instructions.

**END OF SECTION** 

**SECTION 072100 - THERMAL INSULATION** 

A. Product Data: For each type of product indicated.

passing ASTM E 136 for combustion characteristics.

2.2. SPRAY POLYURETHANE FOAM INSULATION

developed indexes of 75 and 450, respectively, per ASTM E 84.

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

B. Unfaced, Mineral-Wool Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting

of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84;

A. Closed-Cell Polyurethane Foam Insulation: ASTM C 1029, Type II, with maximum flame-spread and smoke-

C. Minimum density of 1.5 lb/cu. ft. (24 kg/cu. m), thermal resistivity of 6.2 deg F x h x sq. ft./Btu x in. at 75 deg F

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

2.1.MINERAL-WOOL BLANKET INSULATION

PART 1 – GENERAL

A. Section Includes:

PART 2 – PRODUCT

1. Fibrex Insulations Inc.

Owens Corning.

BASF Corporation.

ERSystems, Inc.

Gaco Western Inc

Henry Company.

Volatile Free, Inc.

BaySystems NorthAmerica, LLC.

NCFI; Division of Barnhardt Mfg. Co.

Dow Chemical Company (The).

SWD Urethane Company.

(43 K x m/W at 24 deg C).

PART 3 – EXECUTION

Roxul Inc.

4. Thermafiber.

1. Mineral-wool blanket insulation.

1.2. ACTION SUBMITTALS

2. Spray polyurethane foam insulation.

1.1. SUMMARY

SECTION 072400.13 - REPAIR OF EXTERIOR INSULATION AND FINISH (EIFS) WALL ASSEMBLIES

PART 2 – PRODUCTS 2.1 MANUFACTURERS

A. Provide EIFS component materials and coatings (as applicable) from single manufacturer: 1. Sto Corp., 3800 Camp Creek PKWY, Building 1400, Suite 120, Atlanta, GA 30331; www.stocorp.com, 1-B. Provide EIFS accessory components from qualified manufacturer.

2.2 WATER-RESISTIVE BARRIER A. Water-resistive barrier coating and transition membrane system. 1. Acceptable Products:

a. Sto Gold Coat – fluid-applied waterproof air-barrier coating for moisture protection of sheathing, masonry and concrete substrates behind EIFS. b. Sto Gold Fill – knife-grade, trowel-applied transition material for use with Sto Gold Coat and StoGuard Mesh as transition at flashing, windows, mechanical penetrations and at system terminations. c. StoGuard RapidSeal – gun-grade waterproof air barrier sealant for use to seal between water-resistive barrier and flashing elements.(may be alternate to or used with Sto Gold Fill and StoGuard Tape) d. StoGuard Tape – fabric-faced, self-adhesive modified asphaltic flashing tape for use with Sto Gold Coat as transition at flashing, windows, mechanical penetrations and at system terminations. (may be alternate to or used with Sto Gold Fill).

e. StoGuard Fabric – non-woven fabric tape for use with Sto Gold Coat as a transition element by embedment of the StoGuard Fabric into wet Sto Gold Coat. Used as transition membrane from Sto Gold Coat onto top edge of StoGuard Tape. (May be alternate to Sto Gold Fill with StoGuard Mesh)

2.3 ADHESIVE A. Acceptable Cementitious Adhesive Products: 1. BTS Plus – one component, polymer-modified, high build adhesive (for use over exterior glass mat faced gypsum sheathing (compliant with ASTM C 1177), exterior cementitious sheathing, concrete, masonry or cement plaster surfaces. Also used over Exposure 1 OSB and plywood sheathing when protected with

2. BTS Xtra – Lightweight, one component, polymer-modified, high build adhesive (for use over exterior glass mat faced gypsum sheathing (compliant with ASTM C 1177), exterior cementitious sheathing, concrete, masonry or cement plaster surfaces. Also used over Exposure 1 OSB and plywood sheathing when protected with StoGuard). 3. Sto TurboStick – Urethane spray foam adhesive for use adhering insulation board for localized repairs and filling gaps in insulation at the perimeter of localized repairs.

2.4 INSULATION BOARD A. Nominal 1.0 pcf (16 kg/cu.m.) Expanded Polystyrene (EPS) insulation board in compliance with ASTM E 2430 and ASTM C 578, Type I requirements. (Note: minimum required thickness is 1 inch (25 mm) and maximum allowable thickness is 12 inches (305 mm) when installed in accordance with ICC-ES ESR 1748).

A. Cementitious Base Coats (See 2.3 for product descriptions) 1. BTS Plus

BTS Xtra B. Waterproof Base Coat

StoGuard).

1. Sto Flexyl – two component fiber-reinforced acrylic-based waterproof base coat mixed in the field with portland cement (provided by others). Use with reinforcing mesh where waterproofing is required. OR 2. Sto Watertight Coat – two component, pre-proportioned acrylic based waterproof base coat. Combine two components in field. Use with reinforcing mesh where waterproofing is required.

2.6 GLASS FIBER MESH REINFORCEMENT A. Provide alkali resistant, open weave glass fiber mesh reinforcing for surface leveling and waterproof base 1. Acceptable Products:

a. Sto Mesh – alkali-resistant, glass-fiber reinforcing mesh for use with Sto base coat products to provide b. Sto Detail Mesh – alkali-resistant, glass-fiber reinforcing mesh for use with Sto base coats to provide crack resistance and at system terminations. c. StoGuard Mesh – self-adhesive mesh for use with Sto Gold Fill water resistive barrier joint and transition

d. Sto Armor Mat – high impact resistant, 15 oz. per sq.yd. alkali resistant, glass-fiber reinforcing mesh.

A. Acceptable Acrylic Primer products: 1. Sto Primer Sand OR

2. Sto Primer Smooth 2.8 POLYMERIC FINISH

A. Polymeric acrylic EIFS finish. Color and texture as indicated on Drawings and confirmed through mockup. 1. Acceptable Acrylic Finish Products a. Stolit Lotusan – Acrylic textured finish with Lotus Effect (maximum water repellency, significantly reduced cleaning requirements over time)

2.9 ACRYLIC CRACK FILLER A. Acceptable Products:

1. Sto Flexible Crack Filler – acrylic-based crack filler packaged in sealant tube for use (unreinforced) in repair of cracks not wider than 1/16-inch (1.6 mm) and up to 1/8-inch (3.2 mm) wide with mesh reinforcement.

2.10 PORTLAND CEMENT A. ASTM C 150 Type I, Type II, or Type I-II cement for mixing with Sto Primer/Adhesive and/or Sto Flexyl. 2.11 ARCHITECTURAL COATING

A. Architectural coating to provide uniform appearance to repaired walls. 1. Acceptable Acrylic Coating Products:

a. StoCoat Lotusan – smooth acrylic architectural coating with Lotus Effect and pronounced self-cleaning

Low-modulus sealant complying with ASTM C 920, ASTM C 1382 and recommended for use with EIFS by the sealant manufacturer.

A. Mix in accordance with manufacturer's printed instructions. B. Mix cementitious products with clean, potable water.

PART 3 EXECUTION

3.1 ACCEPTABLE INSTALLERS A. Prequalify repair contractor under Quality Assurance requirements of this specification (Section 1.6.B).

3.2 EXAMINATION A. Inspect locations identified on the project drawings for repair. Establish clear understanding of the repair scope and process with the mechanics that will perform the work for each individual location.

3.3 SELECTIVE DEMOLITION A. Remove and replace EIFS in areas requiring localized repair as indicated on the project drawings. B. Use hearing, eye, ear and respiratory personal protective equipment when performing demolition. C. Provide adequate protection to persons and property from potential falling debris from demolition and repair D. Comply with local environmental regulations with regard to handling and disposal of construction waste

produced by selective EIFS demolition. E. Comply with StoTherm EIFS Repair and Maintenance Guide available at www.stocorp.com. F. Limit the depth of cuts through the EIFS lamina into the insulation board to prevent damage of the G. Remove damaged insulation board by hand or in a manner which minimizes damage to the substrate.

H. Remove and replace damaged substrate as required by conditions that may become evident as a result of the demolition process. 3.4 FLASHING REPLACEMENT

A. Repair flashing and/or correct conditions in locations indicated on the project drawings and as described in Section 1.4 of this specification. B. Remove EIFS in accordance with Section 3.1 of this specification. C. Remove enough area to permit proper installation of flashing as detailed in Sto Corp. guideline details for water-resistive barrier and EIFS construction (available at www.stocorp.com).

D. Inspect the condition of the water-resistive barrier membrane and transition materials. E. Repair or replace damaged water resistive barrier system components. F. Install replacement components in a sequence and manner to provide shingle-laps and provide a continuous path for moisture drainage to the exterior of the wall via the flashing. G. Install new flashing components such that the completed repair will comply with Sto Corp. guideline details

3.5 EIFS DAMAGE REPAIR A. Perform repairs in accordance with StoTherm EIFS Reference Guide :Repair and Maintenance: (available at www.stocorp.com) 1. Repair impact damage to EIFS including damaged substrate, insulation, base coat reinforcing mesh and finish in locations indicated on the project drawings. a. Determine the exact scope of individual repairs based on inspection at the time of selective demolition. 2. Repair cracks in EIFS finish and lamina where indicated on project drawings.

H. Mix and apply EIFS materials in accordance with printed instructions for the products being used.

3.6 SEALANT JOINT REPAIR A. Remove damaged and worn sealant at joints in EIFS in accordance with StoTherm EIFS Reference Guide :Repair and Maintenance: 1. Protect surrounding EIFS from damage during removal of existing sealant. 2. Replace sealant with approved low-modulus material recommended by the sealant manufacturer for use

3. Install sealant in accordance with sealant manufacturer's published installation instructions for use with EIFS materials. Use sealant primer recommended by the sealant manufacturer on base coat surface if specified by the sealant manufacturer.

3.7 SURFACE REPAIR AND REFINISHING

A. Surface leveling for finish texture change: 1. Apply unreinforced skim coat to existing finish surfaces to level surface in preparation for new finish a. Sto BTS Xtra

i. Apply Sto BTS Xtra over textured cementitious finish and pull tight to fill low areas in finish and provide flat surface to receive new textured finish. ii. Allow Sto BTS Xtra to fully dry before applying finish. B. Skim Coat with additional mesh to provide impact resistance: 1. Apply glass-fiber mesh reinforced base coat in accordance with the applicable Sto Insulated Wall Cladding

Specification for the products and system being used. A. Apply Sto finish in accordance with Sto written instructions for the specified product.

3.9 COATING

B. Apply Sto coating in accordance with Sto written instructions for the specified product.

A. Prepare surface to receive Sto coating in accordance with Sto reStore Cleaning specification.

JASON P. CHANDLER

ALL DIMENSIONS SHOWN TO BE FIELD VERIFIED U.N.O.

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1 02/15/2017 ISSUED FOR PRICING NO. DATE REVISIONS/ISSUANCES

New York

Bucharest

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PROJECT NUMBER PROJECT MANAGER: ARCH/ENG: SCALE: 3/32" = 1'-0" DRAWN BY: CHECKED BY:

OUTLINE **SPECIFICATIONS** 

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