

#### **Direct Applied Finish System**

Sto Canada Master Specification StoQuik® Silver DrainScreen June 2020 002

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 1 of 22

SPEC NOTE: This guide specification is intended for use by the design/construction professional and any user of Sto products to assist in developing project specifications for a direct applied cement board stucco wall assembly applied to code compliant frame wall construction. The assembly incorporates a fluid applied air/moisture barrier, drainage mat, cement board, and Sto reinforcing meshes, base coats, and finishes. This specification should be modified where necessary to accommodate individual project conditions. This specification is specific for Sto Environmental Product Declarations (EPD's), If a needed Sto product isn't listed in the specification it can be added to the specification. This product just won't be part of the EPD accreditation process.

SPEC NOTE: StoGuard, the air/moisture barrier, functions in tandem with other compatible air barrier and flashing components of the building envelope to resist air and water infiltration. Sto DrainScreen, the drainage mat, creates a cavity behind the cement board to promote drainage and drying of the wall assembly in the event of incidental water infiltration through a crack in the outer surface of the assembly. Cement board is the substrate for Sto base coat, reinforcing mesh, and finishes that completes the direct-applied cement board stucco wall assembly.

SPEC NOTE: Limitations of direct-applied cement board stucco wall assemblies include:

- Ultimate wind load resistance is typically limited by the fasteners and fastening schedule of the cement board. (assuming supporting studs and sheathing assembly are sufficient to resist wind loads). Refer to Specification Section 1.4.1.8.
- The system is recommended for low-rise residential and commercial wall construction (4 stories or less), except in cases where testing, analysis, mock-ups, or other information demonstrates satisfactory aesthetics and structural performance.
- Minor surface cracking at joints can become visible in the finished exterior surface.
- The installed cement board surface must be straight and true to within 2 mm/m (1/4 inch in 10 feet) for best aesthetics. Planar irregularities/waviness may be visible in the finished wall surface because of out of plane studs or other framing irregularities. Heavy texture finishes (greater than 1.5 mm) and/or two coats of base coat will minimize these effects.
- For use on vertical above grade wall surfaces only. Do not use below grade or on roofs or roof-like surfaces
- Joints are required, including at intervals in the field of the wall to accommodate thermal movement.
- Light finish colors are recommended to minimize thermal stress
- Air Barrier and drainage mat are not intended for prolonged weather exposure. Refer to Product Bulletins.

SPEC NOTE: StoQuik Silver DrainScreen, as with any exterior wall assembly, requires proper design detailing and integration with other components, in particular flashing and air barrier transition materials, to provide a wall assembly that resists air and water infiltration. The weather protection afforded by StoQuik Silver DrainScreen should be evaluated by the design/construction professional in relation to building design, height, orientation, climate zone, and any other factors that affect the severity of exposure to rain and water infiltration. Refer to Sto Tech Hotline Nos. 0403-BSc, Critical Detail Checklist for Wall Assemblies, and 0603-BSc, Moisture Control Principles for Design and Construction of Wall Assemblies. Modifications should be made to this specification as deemed necessary by the design/construction professional to ensure a watertight building envelope without water entry or accumulation anywhere within the wall assembly, an airtight building envelope, and control of condensation from water vapour diffusion. For complete technical information on Sto components and other reference materials, refer to product and system bulletins, guide details, and other technical information available at www.stocorp.ca.



#### **Direct Applied Finish System**

# Sto Canada Master Specification StoQuik® Silver DrainScreen

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 2 of 22

#### PART 1 GENERAL

#### 1.1 SUMMARY

.1 This section includes materials and installation of exterior direct-applied cement board stucco backed with drainage mat and fluid applied air/moisture barrier, for frame walls.

#### 1.2 RELATED SECTIONS

SPEC NOTE: Add/delete sections depending on specific project requirements

- .1 Section 03 30 00 Cast-In-Place Concrete
- .2 Section 04 20 00 Unit Masonry
- .3 Section 06 16 00 Sheathing
- .4 Section 07 26 00 Vapour Retarders
- .5 Section 07 27 00 Air Barriers
- .6 Section 07 50 00 Membrane Roofing
- .7 Section 07 62 00 Sheet Metal Flashing and Trim
- .8 Section 07 92 00 Joint Sealants
- .9 Section 08 40 00 Entrances, Storefronts, and Curtain Walls
- .10 Section 08 50 00 Windows

#### 1.3 REFERENCED DOCUMENTS

SPEC NOTE: add/delete sections depending on specific project requirements

#### .1 ASTM International (ASTM)

.1	ASTM C 297	Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
.2	ASTM C 1177	Specification for Glass Mat Gypsum for Use as Sheathing
.3	ASTM C 1325	Specification for Non-Asbestos Fiber-Mat Reinforced Cement Substrate Sheets
.4	ASTM D 1784	Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl chloride) (CPVC) Compounds
.5	ASTM D 4541	Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
.6	ASTM E 84	Test Method for Surface Burning Characteristics of Building Materials
.7	ASTM E 96	Standard Test Methods for Water Vapour Transmission of Materials



**Direct Applied Finish System** 

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 3 of 22

.8	ASTM E 283	Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
.9	ASTM E 330	Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
.10	ASTM E 331	Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
.11	ASTM E 779	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization
.12	ASTM E 2178	Standard Test Method for Air Permeance of Building Materials
.13	ASTM E 2357	Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

#### .2 Building Codes

- .1 2010 National Building Code of Canada
- .2 2015 National Building Code of Canada
- .3 Canadian Standards Association
  - .1 CAN/CSA-A3001 Cementitious Materials for Use in Concrete
- .4 Canadian Construction Material Centre (CCMC)
  - .1 CCMC 13120-R StoGuard Air Barrier Material
  - .2 CCMC 13612-R StoGuard Sheathing Membrane
- .5 Proprietary Publications
  - .1 StoGuard Air Barrier Installation Manual
- .6 Underwriters Laboratories of Canada (ULC)
  - .1 ULC S701 Annex A, Standard for Thermal Insulation, Polystyrene Boards, and Pipe Covering

#### 1.4 DESIGN REQUIREMENTS

- .1 Structural (wind and axial loads)
  - .1 Design for maximum allowable deflection, normal to the plane of the wall of L/360
  - .2 Design for wind load in conformance with code requirements using framing members designed to comply with the standards, strength, and stiffness requirements of the applicable code.
  - .3 Maximum stud spacing: 406 mm (16 inches) on center
  - .4 Sheathing: minimum 13 mm (½ inch) glass mat faced gypsum sheathing in compliance with ASTM C 1177 or minimum 11 mm (7/16 inch) plywood or OSB wood-based sheathing in compliance with the NBC.



StoQuik® Silver DrainScreen
June 2020\_002
No. CA-1100 EPD

Direct Applied Finish System

Section 07 24 23 Page 4 of 22

- .5 Drainage mat: 6 mm (¼ inch) thick tangled filament nylon core with fabric facing.
- .6 Screw fasteners for cement board:
  - .1 Wood framing minimum #9 Type S corrosion resistant screws with minimum 10 mm (0.395 inch) wafer head diameter, and minimum 25 mm (1 inch) penetration into framing
  - .2 Steel framing minimum #8 Type S-12 corrosion resistant screws with minimum 10 mm (0.395) inch wafer head diameter and minimum 9.5 mm (3/8 inch) and three thread penetration into framing
- .7 Cement board fastener spacing: maximum 203 mm (8 inches) vertically along studs

NOTE: wind load capacity may vary between cement board manufacturers. Consult cement board manufacturer's latest published literature for maximum allowable wind load pressure.

- .8 Ultimate wind load resistance capabilities with PermaBase Brand cement board:
  - .1 Wood framing capable of achieving ultimate wind load resistance of +4.74 kPA, -5.31 kPa (+ 99 psf, 111 psf): minimum 2x4 kiln dried wood studs with minimum specific gravity of 0.50 spaced 406 mm (16 inches) on center maximum.
  - Metal framing capable of achieving ultimate wind load resistance of +7.61 kPa, -3.88 kPa (+159 psf, -81 psf): minimum 18 gage (1.14 mm) or heavier, minimum 92 mm (3-5/8 inch) depth and 41.3 mm (1-5/8 inch) flange width, cold formed C-shaped steel stud framing spaced 406 mm 16 (inches) on center maximum.
  - .3 Metal framing capable of achieving ultimate wind load resistance of +7.94 kPa, -4.50 kPa (+166 psf, -94 psf): minimum 16 gage (1.61 mm), minimum 152 mm (6 inch) depth and 51 mm (2 inch) flange width, cold formed C-shaped steel stud framing spaced 406 mm (16 inches) on center maximum.

#### .2 Moisture Control

- .1 Prevent the accumulation of water into or behind the cement board stucco, either by condensation or leakage into the wall construction, in the design and detailing of the wall assembly:
  - .1 Provide corrosion resistant flashing to protect exposed elements and to direct water to the exterior, including, above window and door heads, beneath window and door sills, at floor lines, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, and at the base of the wall.
  - .2 Air Leakage Prevention prevent excess air leakage in the design and detailing of the wall assembly. Provide continuity between air barrier components in the wall assembly.
  - .3 Vapour 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 vapour diffusion and condensation. Adjust wall assembly components accordingly to minimize the risk of condensation.



**Direct Applied Finish System** 

### Sto Canada Master Specification StoQuik® Silver DrainScreen

June 2020\_002
No. CA-1100 EPD

Section 07 24 23 Page 5 of 22

Avoid the use of vapour retarders on the interior side of the wall in warm, humid climates.

- .4 Provide StoGuard Air & Moisture Barrier and Sto DrainScreen over sheathing.
- .5 At through wall expansion joints and at joints formed with back-to-back casing beads, back joints with StoGuard Transition Membrane. Refer to Sto Guide Details at www.stocorp.ca.
- Seal cement board stucco accessory butt joints with appropriate sealant. Seal all cement board stucco terminations and penetrations through the cement board stucco wall assembly with appropriate sealant, or backer rod and sealant, as dictated by joint type.

#### .3 Grade Condition

- 1 Do not specify cement board stucco for use below grade or on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure. Provide minimum 6 inch (152 mm) clearance above grade. Provide increased clearance in freeze/thaw climate zones.
- .4 Sloped surfaces, Including Foam Trim and Projecting Architectural Features Attached to Cement Board.
  - .1 Avoid the use of cement board stucco on build-outs or weather exposed sloped and horizontal surfaces (refer to 2 and 3 below).
  - .2 Build out trim and projecting architectural features from the cement board wall surface with code compliant EPS foam. All foam trim and projecting architectural features must have a minimum 1:2 [27°] slope along their top surface. All foam 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 51 mm (2 inches) from the face of the wall plane, protect the top surface with waterproof base coat. Limit foam projection to a maximum of 102 mm (4 inches). Periodic inspections and increased maintenance may be required to maintain surface integrity of finishes 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 Guide Details at <a href="https://www.stocorp.ca">www.stocorp.ca</a>
  - .3 Do not use foam 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 Guide Details at <a href="https://www.stocorp.ca">www.stocorp.ca</a>

#### .5 Joints and Accessories

Provide back-to-back casing beads in the cement board stucco assembly where building movement is anticipated: at joints in the substrate or supporting construction, where the system is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, at columns and cantilevered areas. Where casing bead is used back-to-back as the expansion joint, back the joint with StoGuard Transition Membrane.



**Direct Applied Finish System** 

### Sto Canada Master Specification StoQuik® Silver DrainScreen

June 2020\_002 No. CA-1100 EPD

Section 07 24 23 Page 6 of 22

- .2 Provide one piece control joints at no greater than 7.6 m (25 ft) intervals and 58 m² (625 ft²) for light colours (LRV ≥ 70), and at no greater than 4.68 m (16 ft) and every 23.5 m² (250 ft²) for dark colours (LRV < 70 and ≥ 30). Do not exceed length to width ratio of 2-1/2:1 in joint layout.
- .3 Provide one piece control joints at through wall penetrations, for example, at corners above and below windows, above doors, and similar penetrations through the wall.
- .4 Provide minimum 9 mm (3/8 inch) wide joints where the system abuts windows, doors and other through wall penetrations.
- .5 Provide appropriate accessories at cement board stucco terminations and joints.
- .6 Avoid the use of channel reveal accessories which can interfere with proper drainage and proper stress relief.
- .7 Provide appropriate sealant at cement board stucco terminations and at stucco accessory butt joints.
- .8 Indicate location of joints, accessories and accessory type on architectural drawings.

#### .6 Fire Protection

- .1 Provide full width firestops at floor lines in compliance with the NBC
- .2 Provide 15 minute thermal barrier, typically minimum 13 mm (½ inch) thick interior gypsum wall board or exterior gypsum sheathing, to separate combustible components on the exterior from interior space.
- .3 Provide fire-resistance rated walls in compliance with requirements of the NBC.

#### .7 Colour Limitations

.1 Select colours with a lightness reflectance value (LRV) of ≥ 30 and as dictated by allowable joint spacing (1.4.5.2). Refer to Sto Colour Chart for LRVs.

#### 1.5 PERFORMANCE REQUIREMENTS

- .1 Air & Moisture Barrier
  - .1 Listed by CCMC as an air barrier and as a sheathing membrane (CCMC RR 13120-R and 13612-R)
  - .2 Material Air Leakage Resistance, ASTM E 2178: less than 0.02 L/s·m² (0.004 cfm/ft² at 1.57 psf)
  - .3 Assembly Air Leakage Resistance, ASTM E 2357: less than 0.2 L/s·m² (0.04 cfm/ft² at 1.57 psf)
  - .4 Water Vapour Permeance, ASTM E 96, Method B: greater than 10 perms [573 ng/(Pa·s·m²)]
  - .5 Surface Burning, ASTM E 84: Flame Spread less than 25, Smoke Developed less than 450, Class A Building Material
  - .6 Tensile Adhesion, ASTM C 297:
    - .1 Gypsum Sheathing, exceeds strength of substrate



StoQuik® Silver DrainScreen
June 2020\_002
No. CA-1100 EPD

Section 07 24 23 Page 7 of 22

**Direct Applied Finish System** 

- .2 Plywood, > 590 kPa (85 psi)
- .3 OSB, > 206 kPa (30 psi)
- .7 VOC, calculation:
  - .1 Less than 100 g/L

#### .2 Drainage Mat

.1 Surface Burning, ASTM E 84: Flame Spread less than 25, Smoke Developed less than 450, Class A Building Material

#### 1.6 SUBMITTALS

- .1 Manufacturer's specifications, details, installation instructions and product data
- .2 Manufacturer's standard warranty
- .3 Samples for approval as directed by architect or owner
- .4 Fastener manufacturer's pull-out or withdrawal capacity testing for frame construction
- .5 Prepare and submit project-specific details (when required by contract documents)

#### 1.7 QUALITY ASSURANCE

- .1 Manufacturer Requirements
  - .1 Cement board stucco and air barrier products manufacturer for a minimum of twenty five (25) years.
  - .2 Cement board stucco finish products and air/moisture barrier products manufactured under ISO 9001:2008 Quality System and 14001:2004 Environmental Management System.

#### .2 Contractor Requirements

- .1 Licensed, insured and engaged in application of stucco for a minimum of three (3) years.
- .2 Knowledgeable in the proper use and handling of Sto materials.
- .3 Employ skilled mechanics who are experienced and knowledgeable in stucco 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.
- .3 Foam Trim Insulation Board Manufacturer Requirements
  - .1 Manufacturer of ULC S 701 compliant EPS insulation board.
- .4 Cement Board Manufacturer Requirements



StoQuik® Silver DrainScreen
June 2020\_002
No. CA-1100 EPD

**Direct Applied Finish System** 

Section 07 24 23 Page 8 of 22

.1 Manufacturer of ASTM C 1325 compliant cement board

#### .5 Testing

- .1 Construct full-scale mock-up of typical cement board stucco/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.
- .2 Conduct air barrier adhesion testing in accordance with ASTM D 4541.
- .3 Conduct air barrier assembly testing in accordance with ASTM E 779.
- .4 Verify adequacy of pull-out or withdrawal capacity of fasteners used for frame construction with manufacturer in relation to negative design wind pressures.
- .5 Conduct wet sealant adhesion testing in accordance with sealant manufacturer's field quality control test procedure.
- .6 Notify design professional minimum 7 days prior to testing.

#### .6 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.

#### 1.8 DELIVERY, STORAGE AND HANDLING

- .1 Deliver all materials in their original sealed containers bearing manufacturer's name and identification of product.
- .2 Protect foam plastic insulation materials from prolonged UV exposure, keep away from sources of heat, sparks, flame, flammable or volatile materials. Store on a clean, flat surface, off the ground in a dry area.
- .3 Store cement board materials inside and protect from damage by the elements. Protect ends, edges, and faces of cement boards from damage.
- .4 Protect coatings (pail products) from freezing and temperatures in excess of 32°C (90°F). Store away from direct sunlight.
- .5 Protect portland cement based materials (bag products) from moisture and humidity. Store under cover off the ground in a dry location.
- .6 Handle and store all products as directed on labeling.



### Sto Canada Master Specification Direct Applied Finish System

StoQuik® Silver DrainScreen
June 2020\_002
No. CA-1100 EPD

Section 07 24 23 Page 9 of 22

#### 1.9 PROJECT/SITE CONDITIONS

SPEC NOTE: Weather conditions affect application and drying time or liquid applied air and moisture barrier components, and cement board stucco base coats, primers, and finish coats. Hot or dry conditions limit working time and accelerate drying and may require adjustments in application and scheduling to achieve desired results; cool or damp conditions extend working time and retard drying and may require added measures of protection against wind, dust, dirt, rain and freezing.

- .1 Maintain ambient and surface temperatures above 4°C (40°F) during application and for 24 hours after application of air/moisture barrier and cement board stucco finish materials.
- .2 Provide supplementary heat for installation in temperatures less than 4°C (40°F). Prevent concentration of heat on wet cement board stucco finish materials and vent fumes and other products of combustion to the outside to prevent contact with materials.
- .3 Prevent uneven or excessive evaporation of moisture from base coat during hot, dry or windy weather. Do not install base coat or finish coat if ambient temperatures are expected to rise above 38°C (100°F) within a 24 hour period.
- .4 Provide protection of surrounding areas and adjacent surfaces from application of materials.

#### 1.10 COORDINATION/SCHEDULING

SPEC NOTE: The work in this section requires close coordination with related sections and trades. Sequence work to provide protection of construction materials from weather deterioration and from damage from trades.

- .1 Protect sheathing from climatic conditions to prevent weather damage.
- .2 Coordinate installation of foundation waterproofing, roofing membrane, windows, doors and other wall penetrations to provide a continuous air barrier and continuous moisture protection. Provide protection of rough openings before installing windows, doors, and other penetrations through the wall and provide sill flashing. Coordinate installation of air/moisture barrier components with window and door installation to provide weather proofing of the structure and to prevent moisture infiltration and excess air infiltration.
- .3 Install diverter flashings wherever water can enter the wall assembly to direct water to the exterior.
- .4 Install window and door head flashing immediately after windows and doors are installed.
- .5 Splice-in head flashing, floor line flashing, diverter flashing, and similar flashing with air/moisture barrier detail component to provide a shingle lap that directs water to the exterior.
- 6 Protect air/moisture barrier with cement board stucco cladding assembly within 180 days of installation.



**Direct Applied Finish System** 

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 10 of 22

- .7 Protect drainage mat with cement board or other protection within 30 days of installation.
- .8 Commence the cement board stucco installation after completion of all floor, roof construction and other construction that imposes dead loads on the walls to prevent excessive deflection (and potential cracking) of the cement board stucco.
- .9 Sequence interior work such as drywall installation prior to cement board stucco installation to prevent stud distortion (and potential cracking) of the cement board stucco.
- .10 Provide site grading such that the stucco terminates above earth grade minimum 152 mm (6 inches). Provide increased clearance in freeze/thaw climate zones.
- .11 Install copings and sealant immediately after installation of the cement board stucco finishes and when finish coatings are dry.
- .12 Attach penetrations through cement board stucco to structural support and provide air tight and water tight seals at penetrations.

#### 1.11 WARRANTY

.1 Provide manufacturer's standard warranty.

#### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- .1 Air/Moisture Barrier, Drainage Mat, Cement Board Stucco Base Coat, Finishes
  - .1 Sto Canada Ltd., 1821 Albion Road, Unit 1-2, Etobicoke, Ontario M9W 5W8 Canada

#### .2 Cement Board

- .1 Unifix Inc., 35 Unifix Street, Bromont, Quebec Canada, J2L 1N5
- .2 National Gypsum Company, Inc., 2001 Rexford Road, Charlotte, NC 28211 USA
- .3 CGC, Inc., 350 Burnhamthorpe Rd. W, 5th Floor, Mississauga, ON L5B 3J1
- .3 Cement Board Stucco Accessories
  - .1 Corner Bead Sto-Mesh Corner Bead Standard as furnished by Sto Canada Ltd.
  - .2 Drip Edge Sto Drip Edge Profile as furnished by Sto Canada Ltd.
  - .3 Other accessories as needed pvc accessories compliant with ASTM D 1784 for exterior use

#### 2.2 AIR/MOISTURE BARRIER

.1 StoGuard-- fluid applied air/moisture barrier for sheathing, concrete, and concrete masonry substrates consisting of multiple compatible components:



June 2020\_002 No. CA-1100 EPD

**Direct Applied Finish System** 

Section 07 24 23 Page 11 of 22

- .1 Sto Gold Coat -- ready mixed flexible waterproof coating for wall sheathing, concrete and CMU wall surfaces
- .2 StoGuard Mesh-- nominal 142 g/m² (4.2 oz/yd²), self-adhesive, flexible, symmetrical, interlaced glass fiber mesh, with alkaline resistant coating for compatibility with Sto materials, used with Sto Gold Fill to reinforce rough openings, inside and outside corners, sheathing joints, and shiplap connections with flashing, starter track, and similar ship lap details
- .3 StoGuard Fabric nonwoven cloth reinforcement used with Sto EmeraldCoat for rough opening protection, joint treatment of wall sheathing, and detail component for shiplap connections with flashing, starter track, and similar ship lap details
- .4 StoGuard RediCorner a preformed fabric piece used in the corners of rough openings in tandem with StoGuard Fabric for quicker installation
- .5 StoGuard Transition Membrane flexible air barrier membrane for continuity at transitions: sheathing to foundation, dissimilar materials (CMU to frame wall), wall to balcony floor slab or ceiling, flashing shingle lap transitions, floor line deflection joints, masonry control joints, and through wall joints in masonry or frame construction.

#### 2.3 ACCESSORIES FOR CEMENT BOARD STUCCO

SPEC NOTE: some accessories are supplied by others

SPEC NOTE: CAUTION - AVOID THE USE OF CHANNEL REVEAL ACCESSORIES THAT INTERFERE WITH PROPER DRAINAGE AND STRESS RELIEF

- .1 Starter Track rigid PVC (polyvinyl chloride) tracks with weepholes for use at terminations such as base of wall, floor lines, roof lines, and similar terminations.
- .2 Casing Bead a rigid PVC (polyvinyl chloride) accessory for use at terminations such as windows, doors, and similar through wall penetrations, and used back-to-back at movement joints such as dissimilar materials, through wall expansion joints, and floor line deflection joints. May also be used back-to-back in lieu of a single piece control joint.
- .3 Corner Bead Sto-Mesh Corner Bead Standard, one component PVC (polyvinyl chloride) accessory with integral reinforcing mesh for outside corner reinforcement.
- .4 Drip Edge Sto Drip Edge Profile, one component PVC (polyvinyl chloride) accessory with integral reinforcing mesh that creates a drip edge and plaster return.
- .5 Control Joint "V" Control Joint rigid PVC (polyvinyl chloride) single piece control joint for use at intervals in the field of the wall, and at corners of penetrations such as windows, doors, and similar through wall penetrations.

SPEC NOTE: Some building code jurisdictions require a 3/8" (10 mm) drainage gap. Check applicable code and select Sto DrainScreen 10mm where required.



June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 12 of 22

**Direct Applied Finish System** 

#### 2.4 DRAINAGE MAT

- .1 Sto DrainScreen 6mm nominal 6 mm (1/4 inch) tangled filament nylon core drainage mat with fabric facing.
- .2 Sto DrainScreen 10mm nominal 10 mm (3/8 inch) tangled filament nylon core drainage mat with fabric facing.

#### 2.5 CEMENT BOARD

SPEC NOTE: cement board is supplied by others

- .1 PermaBase™ Brand Cement Board minimum 13 mm (½ inch) thick cement board in Compliance with ASTM C 1325
- .2 Durock® Brand Cement Board minimum 13 mm (½ inch) thick cement board in compliance with ASTM C1325

#### 2.6 MECHANICAL FASTENERS FOR CEMENT BOARD

SPEC NOTE: mechanical fasteners are supplied by others

SPEC NOTE: Pull-out or withdrawal capacity of the selected fastener must be verified with respect to anticipated wind load, desired safety factor and building code requirements. Consult fastener manufacturer or conduct project specific testing to verify compliance with design wind pressure requirements.

- .1 Corrosion resistant screw fasteners:
  - .1 Wood Framing minimum #9 Type S wafer head fully threaded corrosion resistant screws with minimum 25 mm (1 inch) penetration into framing and minimum 10 mm (0.395 inch) head diameter.
  - .2 Steel Framing minimum #8 Type S-12 corrosion resistant wafer head fasteners with minimum 9.5 mm (3/8 inch) and three thread penetration into framing and minimum 10 mm (0.395 inch) head diameter

#### 2.7 FOAM INSULATION BOARD FOR TRIM

SPEC NOTE: Minimum required thickness is 25 mm (1 inch) and maximum allowable thickness is typically 165 mm (6-1/2 inches) for noncombustible type construction unless thicker dimensions are approved by the code official.

.1 Sto EPS Insulation Board--nominal 16 kg/m³ (1.0 lb/ft³) Expanded Polystyrene (EPS) Insulation Board in compliance with ULC S701 requirements.

#### 2.8 JOB MIXED INGREDIENTS

SPEC NOTE: materials listed below are supplied by others

- .1 Water: clean and potable.
- .2 Portland cement: in conformance with CAN/CSA-A3001



Direct Applied Finish System

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 13 of 22

#### 2.9 CEMENT BOARD STUCCO JOINT REINFORCEMENT

.1 StoGuard Mesh with Sto base coat

#### 2.10 CEMENT BOARD STUCCO AND FOAM TRIM BASE COAT

**Base Coat** 

.1 Sto BTS Plus – one component polymer modified portland cement-based base coat material

#### 2.11 CEMENT BOARD STUCCO AND FOAM TRIM REINFORCING MESH

- .1 Sto Mesh--nominal 153 g/m² (4.5 oz./yd²) symmetrical, interlaced open-weave glass fiber mesh treated with alkaline resistant coating for compatibility with Sto materials (achieves Standard Impact Classification over foam insulation board).
- .2 Sto Detail Mesh--nominal 143 g/m² (4.2 oz/yd²) flexible, symmetrical, interlaced openweave glass fiber fabric treated with alkaline resistant coating for compatibility with Sto materials (used for standard foam backwrapping and aesthetic detailing).

#### 2.12 FINISH COAT

SPEC NOTE: select one of the finishes listed

- .1 Stolit Lotusan Finish integrally colored, factory blended textured Lotus-Effect Technology wall finish with graded marble aggregate
- .2 Stolit Finish integrally colored, factory blended, acrylic textured wall finish with graded marble aggregate

#### 2.13 MIXING

- .1 StoGuard
  - .1 Sto Gold Coat mix with a clean, rust-free electric drill and paddle to a uniform consistency. Do not thin, or dilute with water.
- .2 Adhesive and base coats for cement board stucco and foam build-outs:
  - .1 Refer to applicable Sto <u>Product Bulletin</u> for selected adhesive/base coat material(s).
- .3 Finish--mix with a clean, rust-free high speed mixer to a uniform consistency. A small amount of water (up to 0.4 L [12 ounces]) may be added to adjust workability. Limit addition of water to amount needed to achieve the finish texture.
- .4 Mix only as much material as can readily be used.
- .5 Do not add lime, anti-freeze compounds, or other additives to any of the materials.



June 2020\_002 No. CA-1100 EPD

#### **Direct Applied Finish System**

Section 07 24 23 Page 14 of 22

#### PART 3 EXECUTION

#### 3.1 ACCEPTABLE INSTALLERS

.1 Pre-qualify under Quality Assurance requirements of this specification (section 1.7.2).

#### 3.2 EXAMINATION

- .1 Inspect sheathing surfaces for:
  - .1 Damage and deterioration.
  - .2 Moisture damage record any areas of moisture damage.
- .2 Inspect sheathing application for compliance with applicable requirement:
  - .1 Glass Mat Faced Gypsum Sheathing in compliance with ASTM C 1177 refer to manufacturer's instructions and/or CCMC evaluation report
  - .2 National Building Code of Canada

SPEC NOTE: Sheathing attachment can determine ultimate wind load resistance. Verify attachment in conformance with design wind pressure requirements as determined by building code requirements and/or project specific testing. Gypsum sheathing must be butted at joints. Wood-based sheathing must be gapped 3 mm (1/8 inch) at edge and end joints.

.3 Report deviations from the requirements of project specifications or other conditions that might adversely affect the air/moisture barrier, or cement board stucco installation to the General Contractor. Do not proceed with air/moisture barrier, or cement board stucco installation until deviations are corrected.

#### 3.3 SURFACE PREPARATION

- .1 Sheathing
  - .1 Remove surface contaminants and replace damaged sheathing.
  - .2 All sheathing must be handled and installed in compliance with applicable building code and/or manufacturer requirements. Installed sheathing must be clean, dry and free from damage, frost, and all bond-inhibiting materials. Abut gypsum sheathing joints. Gap wood sheathing 3 mm (1/8 inch) at joints. Should gaps exceed 3 mm (½ inch) up to 13 mm (1/2 inch) wide, use Sto Rapid Guard to fill joints, or apply low expanding urethane foam into joints and rasp or shave flush with sheathing surface in preparation for installation of StoGuard joint treatment.
  - .3 Spot surface defects in sheathing and over-driven fasteners with joint treatment (Sto Rapid Guard, or Sto Gold Coat).

#### 3.4 AIR/MOISTURE BARRIER INSTALLATION

SPEC NOTE: refer to Sto Guide Details as needed

SPEC NOTE: IMPORTANT - the air/moisture barrier installation described below is one component of the air barrier assembly for the building envelope and the moisture protection of the wall construction.



### Sto Canada Master Specification Direct Applied Finish System StoQuik® Silver DrainScreen

June 2020\_002 No. CA-1100 EPD

Section 07 24 23 Page 15 of 22

Installation of the air/moisture barrier must be integrated with other air and moisture barrier components in the construction. This requires coordination with other trades to ensure proper sequencing of work, to achieve air barrier continuity, and to direct rain water to the exterior, not into the wall assembly. Always protect rough openings in wall construction BEFORE installing windows, doors, louvers, etc. Where water is likely to penetrate the wall assembly, such as windows, flashing must be installed to direct water to the exterior at the leak source.

SPEC NOTE: Windows and doors are typically installed immediately following installation of the air/moisture barrier and work should be sequenced accordingly. Consult with window manufacturer for installation requirements to maintain air barrier continuity and for head, jamb, sill flashing and perimeter sealant requirements needed to prevent leaks into the wall assembly.

SPEC NOTE: DO NOT ALLOW WATERPROOF AIR BARRIER INSTALLATION TO REMAIN EXPOSED MORE THAN 180 DAYS. PROTECT WITH CI AND CEMENT BOARD STUCCO CLADDING PROMPTLY AFTER INSTALLATION.

- .1 The following instructions are applicable to:
  - .1 Glass mat gypsum sheathing and Plywood or OSB wood-based sheathing
- .2 Transition Detailing with StoGuard Transition Membrane

At floor line deflection joints up to 25 mm (1 inch) wide, expansion joints formed with back-to-back casing beads, and static joints and transitions such as: sheathing to foundation, dissimilar materials (i.e., CMU to frame wall), flashing shingle-lap transitions, and wall to balcony floor slab or ceiling:

- .1 Apply waterproof coating (Sto Gold Coat) liberally to properly prepared surfaces with brush, roller, or spray.
- .2 Place pre-cut lengths of StoGuard Transition Membrane centered over the transition in the wet coating. At changes in plane crease the membrane and similarly place the membrane material in the wet coating. At floor line deflection joints achieve a slightly concave profile (recessed into the joint) of the membrane.
- .3 Immediately top coat the membrane with additional coating and apply pressure with brush or roller to fully embed the membrane in the coating and achieve a smooth and wrinkle-free surface without gaps or voids.
- .4 Apply coating liberally along all top horizontal edges on walls and along all edges on balcony floor slabs to fully seal the edges.
- .5 Overlap minimum 51 mm (2 inches) at ends and adhere lap seams together with coating. Shingle lap vertical seams and vertical to horizontal intersections with minimum 51 mm (2 inches) overlap.

At movement joints up to 25 mm (1 inch) wide with up to + 50% movement such as masonry control joints, and through wall joints in masonry or frame construction:

- .6 Insert backer rod sized to friction fit in the joint (diameter 25% greater than joint width).
- .7 Recess the backer rod 13 mm (½ inch).



June 2020\_002
No. CA-1100 EPD

Section 07 24 23 Page 16 of 22

**Direct Applied Finish System** 

- .8 Apply the waterproof coating liberally to properly prepared surfaces with brush, roller, or spray along the outer surface on each side of the joint (not in the joint).
- .9 Immediately place the membrane by looping it into the joint against the backer rod surface to provide slack.
- .10 Embed the membrane in the wet coating along the outer surface on the sides of the joint by top coating with additional coating material and applying pressure with a brush or roller.

For all applications, after the membrane installation is complete and the waterproof coating is dry:

- .11 Apply a final liberal coat of the waterproof coating to all top horizontal edges on walls to ensure waterproofing integrity. Similarly apply coating at all edges on balcony floor slabs.
- .12 Inspect the installed membrane for fish mouths, wrinkles, gaps, holes or other deficiencies. Correct fish mouths or wrinkles by cutting, then embedding the area with additional coating applied under and over the membrane.
- .13 Seal gaps, holes, and complex geometries at three dimensional corners with Sto Rapid Guard.
- .3 Transition Detailing with Sto Rapid Guard

At flashing shingle laps, and through wall penetrations such as pipes, electrical boxes, and scupper penetrations:

- .1 Flashing leg or penetration flange must be seated flat against the wall surface without gaps. Apply Sto Rapid Guard liberally with a caulking gun in a zig-zag pattern across the flashing leg or flange/wall surface seam and spread to a thickness that covers the flange and fastener penetrations, and directs water away from the wall. Extend application minimum 25 mm (1 inch) onto both surfaces (flashing leg/flange and wall surface).
- .2 At through wall penetrations without flanges ensure the penetrating element (i.e., pipe or scupper) is fitted snug against abutting wall surfaces. Apply a fillet bead with a caulking gun around the penetration and tool against both surfaces (penetration and wall surface) to create a bead profile that directs water away from the penetration. Extend application minimum 25 mm (1 inch) onto both surfaces.

SPEC NOTE: select 3.4.4.1 or 3.4.4.2 or 3.4.4.3 for frame construction; for concrete or concrete masonry rough openings with wood bucks and similar openings with complex 3-dimensional geometry, select 3.4.4.3, StoGuard RapidSeal.

#### .4 Rough Opening Protection:

Sto Gold Coat with StoGuard Fabric: apply Sto Gold Coat liberally by spray or roller to corners of openings, immediately place StoGuard RediCorners in the wet coating, and apply additional coating over the RediCorners to completely embed them. For deep section studs cut minimum 102 mm (4 inch) strips of StoGuard Fabric to seal sill and head to jamb corners. Crease and center the fabric strips at the sill/head to jamb intersection and embed the fabric strips in Sto Gold Coat. After all corners have been completed apply Sto Gold Coat liberally to the entire



### Sto Canada Master Specification Direct Applied Finish System StoQuik® Silver DrainScreen

June 2020\_002 No. CA-1100 EPD

Section 07 24 23 Page 17 of 22

rough opening, immediately place StoGuard Fabric in the wet coating, smooth any wrinkles with a brush or roller, and apply additional coating over the fabric to completely embed it. Overlap all seams minimum 51 mm (2 inches). Once completed, top coat with additional coating as needed to completely seal the surface. Allow to dry and inspect for pinholes or voids. If pinholes or voids are present, seal with additional coating or Sto Rapid Guard (refer to Sto Detail 22.20RG).

SPEC NOTE: select one of the joint treatments listed.

- .5 Sheathing Joint Treatment
  - 1 Sto Gold Coat with StoGuard Fabric: apply Sto Gold Coat liberally by spray or roller along sheathing joints and immediately place 102 mm (4 inch) wide fabric centered over the joints into the wet coating, and 152 mm (6 inch) wide fabric centered and folded at inside and outside corners into the wet coating. Smooth any wrinkles with a brush or roller and apply additional coating to completely embed the fabric. Overlap seams minimum 51 mm (2 inches).
  - .2 Sto Rapid Guard: apply a thick bead of Sto Rapid Guard with a caulking gun along sheathing joints, or apply in a zig-zag pattern across and down the joints. Spread to a uniform thickness of 0.5-0.6 mm (0.020 0.030 inches). Spread 25 mm (1 inch) beyond the sheathing joint on each side with a 152 mm (6 inch) wide plastic spreader. Follow the same procedure for inside and outside corners.
- .6 Air/Moisture Barrier Coating Installation
  - .1 Plywood, OSB and Gypsum Sheathing: apply waterproof coating by spray or roller over sheathing surface, including the dry joint treatment, rough opening protection, and transition areas, to a uniform wet mil thickness of 0.25 mm (0.10 inch) in one coat. Use 13 mm (½ inch) nap roller. Inspect surface and touch up areas (such as where OSB wood strands are raised) with a second coat of Sto Gold Coat to completely seal the surface. Protect from rain and freezing until completely dry.
- .7 Air /Moisture Barrier Connections and Shingle Laps
  - .1 Coordinate installation of connecting air barrier components with other trades to provide a continuous air tight membrane.
  - .2 Coordinate installation of flashing and other moisture protection components with other trades to achieve complete moisture protection such that water is directed to the exterior, not into the wall assembly, and drained to the exterior at sources of leaks (windows, doors and similar penetrations through the wall assembly).
  - 3 Splice-in head flashings above windows, doors, floor lines, roof/sidewall step flashing, and similar locations with StoGuard detail component to achieve shingle lap of the air/moisture barrier such that water is directed to the exterior.

### 3.5 STARTER TRACK AND BACK MOUNT CASING BEAD ACCESSORY INSTALLATION

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



June 2020\_002 No. CA-1100 EPD **Direct Applied Finish System** 

Section 07 24 23 Page 18 of 22

- .2 Attach the starter track even with the line onto the structure a maximum of 406 mm (16 inches) on center with the proper fastener: Type S-12 corrosion resistant screws for steel framing with minimum 9 mm (3/8 inch) penetration, and galvanized or zinc coated nails for wood framing with minimum 19 mm (3/4 inch) penetration. Blocking installed between the studs may be necessary to secure the track flat against the wall surface. For solid sheathing attach directly into sheathing at 305 mm (12 inches) on center maximum.
- .3 Butt sections of starter track together. Miter cut outside corners and abut. Snip front flange of one inside corner piece (to allow the cement board to be seated inside of track) and abut.
- .4 Install Starter Track at other cement board system terminations as designated on detail drawings: above windows and doors, at floor lines, above roof along dormers or gable end walls, and beneath window sills with concealed flashing.
- .5 Install casing beads similarly at cement board stucco termination points—window and door jambs and other through wall penetrations. Install back-to-back casing beads at building expansion joints, thru-wall joints, where the cement board stucco abuts dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Where casing bead is used back-to-back as an expansion joint back the membrane with StoGuard Transition Membrane.
- .6 Splice-in starter track at base of wall, above windows, doors, floor lines, roof/sidewall step flashing, and similar locations with StoGuard detail component to achieve shingle lap of the air/moisture barrier such that water is directed to the exterior.

#### 3.6 DRAINAGE MAT INSTALLATION

.1 Place drainage mat against the wall surface and unroll horizontally with the fabric facing out. Staple into place with corrosion-resistant fasteners. Use as few fasteners as needed to hold the mat in place, starting from the bottom of the wall at the starter track and working up. Do not fasten through flashing. Shingle lap fabric at horizontal courses. Shingle lap drainage mat over starter track and flashing at floor lines, decks, roof lines, window heads, and other areas where flashing is required, to direct water to the exterior. Butt ends of rolls and vertical seams. Trim at accessories around windows, doors, vents, or other penetrations through the wall. Do not install behind window nail flanges or accessories. Lap over back leg of installed accessories. Immediately follow installation of drainage mat with cement board stucco installation. Where cement board stucco installation will not immediately follow installation of drainage mat, use corrosion-resistant cap nails, cap staples, or cap screws every 406 mm (16 inches) on center along framing for more secure attachment. Cover drainage mat with cement board within 30 days of installation.

#### 3.7 CEMENT BOARD STUCCO INSTALLATION

SPEC NOTE: refer to Sto Guide Details as needed

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the cement board stucco installation as described below. Ensure the installed cement board surface is straight and true within 2 mm/m (1/4 inch in 10 feet),



### Sto Canada Master Specification Direct Applied Finish System StoQuik® Silver DrainScreen

June 2020\_002 No. CA-1100 EPD

Section 07 24 23 Page 19 of 22

and is clean, dry and free from damage, frost, and all bond-inhibiting materials before application of coatings or accessories to cement board surface. Consult cement board manufacturer's published literature for use, application, limitations, and handling instructions. Ensure the installed base coat or primed base coat surface is clean, dry, free from damage, frost, and all bond inhibiting materials, including dust, dirt, salts, oil, grease, or laitance, before application of finish.

#### .1 Cement Board Installation

- Install cement board horizontally or vertically. Offset joints from sheathing joints by minimum 152 mm (6 inches). Insert bottom edge of board into the starter track, and then attach the board through the sheathing to studs/framing members with fasteners spaced 203 mm (8 inches) on center maximum at the perimeter and in the field of the board, making sure that the fasteners seat flush with the surface of the cement board and do not penetrate the surface of the cement board.
- .2 Install cement boards with vertical joints staggered and with ends and edges closely butted but not forced together and flush at the surface. Cut boards in an "L" shape around openings such as windows, doors, and similar penetrations.
- .3 Provide for expansion joints and control joints in cement board layout (see Design Requirements, Section 1.4.5).

SPEC NOTE: Cement board fasteners may need to be spaced closer, depending on design wind pressures. Verify fastening schedule is adequate for design wind pressures. Refer to Section 1.4.1.8.

#### .2 Face Mount Accessory Installation

- .1 Install one piece control joints at wall penetrations, for example, above and below windows and doors. Install control joints in accordance with the following guidelines:
  - .1 Light colors (LRV  $\geq$  70) at no greater than 7.6 m (25 ft) intervals and 58 m<sup>2</sup> (625 ft<sup>2</sup>)
  - .2 Dark colors (LRV < 70 and  $\geq$  30) at no greater than 4.68 m (16 ft) intervals and every 23.5 m<sup>2</sup> (256 ft<sup>2</sup>)
  - .3 Do not exceed length to width ratio of 2-1/2:1 in expansion joint layout.
- .2 Inside Corners: install corner bead accessory at inside corners adhesively or mechanically.
- .3 Outside Corners: install corner bead accessory adhesively by completely embedding the accessory in the base coat material.

SPEC NOTE: Where drainage is intended at the return, the drip edge accessory may not be applicable, depending on design details. Refer to Sto Guide Details.

- .4 Drip Edge: install drip edge accessory by completely embedding the accessory in the base coat material.
- .3 Cement Board Joint Reinforcement, Accessory Overlaps, and Corners of Wall Penetrations



Page 20 of 22

### Sto Canada Master Specification StoQuik® Silver DrainScreen

June 2020\_002
No. CA-1100 EPD

Section 07 24 23

**Direct Applied Finish System** 

Install StoGuard Mesh centered over cement board joints. After placing mesh over joints skim coat the surface with base coat to completely cover the mesh.

- .2 Install StoGuard Mesh over perforated accessory flanges up to the "stop bead" on the accessory starter tracks, casing beads, corner beads, and control joints. After placing mesh over flanges skim coat the surface up to the "stop bead" on the accessory with base coat to completely cover the mesh.
- .3 At corners of wall penetrations where no control joint is used embed inch 230 x 305 mm (9 x 12 inch) detail mesh diagonally in base coat.

SPEC NOTE: Do not install foam build-outs over joints in the cement board stucco wall assembly. Terminate foam build-outs and backwrap in accordance with instructions below.

SPEC NOTE: All foam 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 51 mm (2 inches) from the face of the wall plane, protect the weather exposed sloped surface with waterproof base coat. Avoid the use of trim and features that exceed the maximum allowable thickness of foam permitted by code (typically 165 mm [6-1/2 inches]) unless approved by the code official. Periodic inspections and increased maintenance may be required to maintain surface integrity of finish on sloped weather exposed surfaces. Limit projecting features to easily accessible areas and limit total area to facilitate maintenance and minimize maintenance burden. Refer to Sto details. Do not use foam trim 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 details.

#### .4 Foam Trim and Build-Outs

- .1 Where foam build-outs terminate at a dissimilar material such as a window, door or other non-cement board stucco surfaces, backwrap the foam build-out by installing detail mesh onto the terminating edge of the cement board. Embed the mesh in the base coat. Allow the mesh to dangle until the backwrapping procedure is completed (Section 3.5.4.4).
- .2 Install foam build-outs directly over cement board with foam trim adhesive. Apply adhesive with the appropriate size notched trowel to the back of the insulation board and immediately place build-out in the proper location on the wall. Press firmly into place and trim or tool excess adhesive from ends and edges of foam trim for a smooth void-free connection to the cement board substrate.
- .3 After the adhesive has cured sufficiently to hold the build-out firmly in place, rasp the entire foam surface smooth.
- .4 Complete the backwrapping procedure by applying the foam trim base coat to the exposed edges of the foam build-out and minimum 64 mm (2-1/2 inches) onto the face. Pull the backwrap mesh around the foam build-out and fully embed it into the base coat. Use a corner trowel for neat straight corners.
- .5 Apply the base coat to the foam build-out and approximately 76 mm (3 inches) onto the adjacent cement board surfaces to an approximate thickness of 3 mm (1/8 inch). Immediately embed the reinforcing mesh in the wet base coat. Trowel from the center to the edges of the mesh to avoid wrinkles and remove excess base coat. Overlap mesh seams minimum 64 mm (2-1/2 inches). Overlap mesh onto adiacent cement board wall surfaces minimum 64 mm (2-1/2 inches) at



June 2020\_002
No. CA-1100 EPD

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**Direct Applied Finish System** 

Section 07 24 23 Page 21 of 22

terminations of the foam build-out and feather onto the cement board wall surface.

#### .5 Reinforced Base Coat Installation

- .1 Apply base coat over the cement board, including any areas of unreinforced foam trim/build-outs, with a stainless steel trowel to a uniform thickness of approximately 3 mm (1/8 inch). Work horizontally or vertically in strips of 1016 mm (40 inches), and immediately embed the mesh into the wet base coat by troweling from the center to the edge of the mesh. Overlap mesh not less than 64 mm (2-½ inches) at mesh seams and fully overlap mesh at accessories to the accessory "stop bead." Fully overlap backwrap reinforcing mesh along foam trim/build-outs if these surfaces have not yet been reinforced with base coat/mesh. Feather seams and edges. Double wrap all inside and outside corners with minimum 203 mm (8 inch) overlap in each direction where mesh is used in lieu of a corner bead 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 or if necessary to correct planar irregularities in the wall surface. Allow base coat to thoroughly dry before applying primer or finish.
- .2 Sloped Surfaces: for foam trim, reveals, aesthetic bands, cornice profiles, sills or other architectural features that project beyond the vertical wall plane more than 51 mm (2 inches) apply waterproof base coat with a stainless steel trowel to the weather exposed sloped surface and minimum 102 mm (4 inches) above and below it. Embed standard mesh or detail mesh in the waterproof base coat and overlap mesh seams a minimum of 64mm (2-½ inches). Allow base coat to thoroughly dry before applying primer or finish.

SPEC NOTE: The primer is an optional component intended primarily to enhance aesthetics.

#### .6 Primer Installation

.1 Apply primer evenly by brush or roller to the dry base coat surface

#### .7 Finish Installation

- Apply finish by spraying or troweling with a stainless steel trowel, depending on the finish specified, to the dry base coat (or primed base coat) surface. Follow these general rules for application of finish:
  - .1 Avoid application in direct sunlight.
  - .2 Apply finish in a continuous application, and work a wet edge towards the unfinished wall area. Work to an architectural break in the wall before stopping to avoid cold joints.
  - .3 Weather conditions affect application and drying time. Hot or dry conditions limit working time and accelerate drying. Adjustments in the scheduling of work may be required to achieve desired results; cool or damp conditions extend working time and retard drying and may require added measures of protection against wind, dust, dirt, rain and freezing. Adjust work schedule and provide protection.
  - .4 Float "R" (rilled or swirl texture) finishes with a plastic float to achieve their rilled texture



**Direct Applied Finish System** 

June 2020\_002 No. CA-1100 EPD Section 07 24 23 Page 22 of 22

- .5 Do not install separate batches of finish side-by-side.
- .6 Do not apply finish into or over sealant joints. Apply finish to outside face of wall only.
- .7 Do not apply finish over irregular or unprepared surfaces, or surfaces not in compliance with the requirements of the project specifications.

#### 3.8 PROTECTION

- .1 Provide protection of installed materials from water infiltration into or behind them.
- .2 Provide protection of installed materials from dust, dirt, precipitation, and freezing.
- .3 Provide protection of installed primer and finish from dust, dirt, precipitation, freezing and continuous high humidity until fully dry.
- .4 Provide sealant and backer material at cement board stucco terminations and at fixture penetrations through the cement board stucco to protect against air, water and insect infiltration. Provide weeps at floor lines, window and door heads, and other areas to conduct water to the exterior.

#### 3.9 CLEANING, REPAIR AND MAINTENANCE

- .1 Clean and maintain the cement board stucco finish for a fresh appearance and to prevent water entry into and behind the assembly. Repair cracks, impact damage, spalls or delamination promptly.
- .2 Maintain adjacent components of construction such as sealants, windows, doors, and flashing, to prevent water entry into the wall assembly.
- .3 Refer to Sto reStore Repair and Maintenance Guide (<u>reStore Program</u>) for detailed information on restoration – cleaning, repairs, recoating, resurfacing and refinishing, or re-cladding.

#### END OF SECTION 07 24 23

#### **ATTENTION**

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