

STRATUM GUARD[®] I & II

An exterior insulation finish system with drainage

DSC155C

Stratum Guard System Specifications

INTRODUCTION

This document contains the Manufacturer's Standard Specification for Stratum Guard Systems I and II. These specifications follow the Construction Specification Institute's 3-part format.

TAILORING THE DRYVIT MANUFACTURER'S SPECIFICATIONS TO YOUR PROJECT.

These specifications cover all the common ways of using the Stratum Guard System. Most projects use only a few of the possible combinations of these materials and methods. To tailor the specifications to your project, simply use those sections which apply. Also, it may be prudent to place certain parts of the Dryvit Stratum Guard Specification in other parts of the project's total specification, such as sealants and framing. The project design professionals are responsible for ensuring that the project specifications are suitable for the project. For assistance in preparing your specification, contact your Dryvit Distributor or Dryvit Systems Canada.

UNITS

English Units are included in parentheses after the Standard International (SI) equivalents thus:

12.7 mm (1/2 in) 16 Kg/m³ (1.0 pcf)

Please note that the conversions may not be exact but rather represent commonly used equivalents.

WARNING

The Stratum Guard System is designed as a drainage wall cladding system and is detailed to discharge incidental moisture from within the System. Specifications should be followed and proper details adhered to, in order to prevent water intrusion, resulting in possible damage to the System or other building elements. Care should be taken to insure that all building envelope elements, including without limitations, roof designs, windows, flashings, sealants, etc., are compatible with this system.

DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Stratum Guard System products as of the date of publication of this document and is presented in good faith. Dryvit Systems Canada assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, visit our website at www.dryvit.com or contact Dryvit Systems Canada, at

Dryvit Systems Canada
129 Ringwood Drive
Stouffville, Ontario
Canada L4A 8A2
(800) 263-3308

* The Trained Contractor Certificate referenced in Section 1.06.A.2 indicates certain employees of the company have been instructed in the proper application of Dryvit products and have received copies of Dryvit's Application Instructions and Specifications. The Trained Contractor Program is not an apprenticeship or endorsement. Each trained contractor is an independent company experienced in the trade and bears responsibility for its own workmanship. Dryvit Systems Canada assumes no liability for the workmanship of a trained contractor.

**DRYVIT SYSTEMS CANADA
ARCHITECTURAL SPECIFICATION
SECTION 07240
AN EXTERIOR INSULATION AND FINISH SYSTEM CLASS PB**

PART I – GENERAL**1.01 SUMMARY:**

- A. This document is to be used in preparing specifications for projects utilizing the Dryvit Stratum Guard® System. For complete product description and usage refer to:
1. Dryvit Stratum Guard Data Sheet, DSC440C
 2. Dryvit Stratum Guard System Application Instructions, DSC143C.
 3. Dryvit Stratum Guard System Installation Details, DSC106C.
- B. Related Sections
1. Unit Masonry – Section 04200
 2. Concrete – Sections 03300 and 03400
 3. Light Gauge Cold Formed Steel Framing – Section 05400
 4. Wood Framing – Section 06100
 5. Sealant – Section 07900
 6. Flashing – Section 07600

1.02. REFERENCES

- A. Section Includes
1. CCMC Technical Guide for EIFS Evaluation Appendix A4 inclusive
 2. ASTM B 117 (Federal Test Standard 141A Method 6061) Standard Practice for Operating Salt Spray (Fog) Apparatus
 3. ASTM C 150 Standard Specification for Portland Cement
 4. ASTM D 968 (Federal Test Standard 141A Method 6191) Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
 5. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 6. ASTM D 4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
 7. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
 8. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials
 9. ASTM E 119 Standard Method for Fire Tests of Building Construction and Materials
 10. ASTM E 330 Test Method for Structural Performance of Exterior Windows, Doors and Curtain Walls by Uniform Static Air Pressure Difference
 11. ASTM E 2098 Test Method for Determining the Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to Sodium Hydroxide Solution.
 12. ASTM E 2134 Test Method for Evaluating the Tensile-Adhesion Performance of Exterior Insulation and Finish Systems (EIFS)
 13. ASTM E 2273 Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies
 14. ASTM E 2430 Standard Specification for Expanded Polystyrene (EPS) Thermal Insulation Boards for use in Exterior Insulation and Finish Systems (EIFS)
 15. ASTM E 2486 (formerly EIMA Std. 101.86) Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
 16. ASTM G 155 (Federal Test Standard 141A Method 6151) Standard Practice for Operating-Xenon Arc Light Apparatus, for Exposure of Nonmetallic Materials
 17. DSC106C, Dryvit Stratum Guard System Installation Details
 18. DSC131, Dryvit Expanded Polystyrene Insulation Board Specification
 19. DSC143C, Dryvit Stratum System Application Instructions
 20. DSC151, Custom Brick™ Polymer System Specifications for Use On Vertical Walls
 21. DSC152, Dryvit Cleaning and Recoating
 22. DSC153, Dryvit Expansion Joints and Sealants

- 23. DSC159, Dryvit Water Vapor Transmission
- 24. DSC235, Dryvit Homeowner's Maintenance Guide
- 25. DSC456, Rapidry DM™ 35-50 or DSC457, Rapidry DM 50-75 Data Sheets
- 26. DSC494, Dryvit AquaFlash® System
- 27. Mil Std E5272 Environmental Testing
- 28. Mil Std 810B Environmental Test Methods

1.03 DEFINITIONS

- A. Base Coat: Material used to encapsulate one or more layers of reinforcing mesh fully embedded that is applied to the outside surface of the EPS.
- B. Building Expansion Joint: A joint through the entire building structure designed to accommodate structural movement.
- C. Contractor: The contractor that installs the Stratum Guard System to the substrate.
- D. Dryvit: Dryvit Systems Canada the manufacturer of the Stratum Guard System, a Canadian company.
- E. Expansion Joint: A structural discontinuity in the Stratum Guard System.
- F. Finish: An acrylic-based coating, available in a variety of textures and colors that is applied over the base coat.
- G. Insulation Board: Expanded polystyrene (EPS) insulation board, which is affixed to the substrate.
- H. Reinforcing Mesh: Glass fiber mesh(es) used to reinforce the base coat and to provide impact resistance.
- I. Sheathing: A substrate in sheet form.
- J. Substrate: The material to which the Stratum Guard System is affixed.
- K. Substrate System: The total wall assembly including the attached substrate to which the Water-Resistive Barrier is affixed.
- L. WRB – Water Resistive Barrier: A liquid applied barrier coating that provides a moisture barrier function and may also be used as part of an effective air barrier system.

1.04 SYSTEM DESCRIPTION

- A. General: Dryvit Stratum Guard Systems are an Exterior Insulation and Finish System (EIFS), Class PB, designed for use on combustible type construction. Stratum Guard is installed over a prepared water-resistive barrier and consists of a drainage medium and drainage accessories, expanded polystyrene insulation board, adhesive, reinforced base coat and finish.
- B. Acceptable system configuration options include:

System Configuration	Water-Resistive Barrier	Drainage Medium	EPS Minimum Thickness	Attachment	Base Coat/Adhesive
Stratum Guard I (SG 1)	Backstop NT - Textured	Notched Trowel* Adhesive	37 mm (1.5 in)	Adhesive	Primus® Primus DM
Stratum Guard II (SG 2)	Backstop NT - Textured	Notched Trowel* and grooved EPS	37 mm (1.5 in)	Adhesive	Primus Primus DM

*Patent pending

- C. Design Requirements:
 - 1. Acceptable substrates for the Stratum Guard Systems shall be:
 - a. APA Exterior or Exposure 1 rated Plywood, Grade C-D or better, nominal 11.1 mm (7/16 in), minimum 4-ply.
 - b. APA Exposure 1 rated Oriented Strand Board (OSB), minimum 11.1 mm (7/16") meeting CSA O325.
 - c. Unglazed brick, cement plaster, concrete, or masonry.
 - 2. Deflection of substrate systems shall not exceed 1/320 times the span.
 - 3. The substrate shall be flat within 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.
 - 4. The slope of inclined surfaces shall not be less than 6:12. The length of inclined surfaces shall not exceed 305 mm (12 in).
 - 5. At horizontal sealant joints and windowsills projecting 102 mm (4 in) or less, the slope shall not be less than 3:12.

6. All areas requiring an impact resistance classification higher than "standard", as defined by ASTM E 2486 (formerly EIMA Standard 101.86), shall be detailed in the drawings and described in the contract documents. Refer to Section 1.04.D.1.a.3) of this specification.
7. Expansion joints:
 - a. Design and location of expansion joints in the Stratum Guard System is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:
 - 1) Where expansion joints occur in the substrate system.
 - 2) Where building expansion joints occur.
 - 3) At floor lines in wood frame construction.
 - 4) At floor lines of non-wood framed buildings where movement is expected.
 - 5) Where the Stratum Guard System abuts dissimilar materials.
 - 6) Where the substrate type & behavior changes.
 - 7) In continuous elevations at intervals not exceeding 23 m (75 ft).
 - 8) Where structural movement occurs such as changes in roofline, building shape or structural system shear stresses.
8. Terminations
 - a. Prior to applying the Dryvit Stratum Guard System, wall openings shall be protected with Dryvit Backstop™ NT and AquaFlash System or Flashing Tape. Refer to Dryvit Stratum Guard System Installation Details, DSC106C.
 - b. The Stratum Guard System shall be held back from adjoining materials around openings and penetrations such as windows, doors and mechanical equipment a minimum of 12.7 mm (1/2 in) for sealant application. **See Dryvit's Stratum Guard System Installation Details, DSC106C, for exceptions and alternate methods.**
 - c. At the base of walls, the System shall extend a minimum of 25 mm (1 in) below the sill plate onto the foundation, and be terminated a minimum of 203 mm (8 in) above finished grade.
 - d. For slab-on-grade, the Stratum Guard System shall extend a minimum 25 mm (1 in) onto the slab edge.
 - e. Sealants
 - 1) Shall be manufactured and supplied by others.
 - 2) Shall be compatible with the Stratum Guard System materials. Refer to current Dryvit publication DSC153 for listing of sealants tested by sealant manufacturer for compatibility.
 - 3) The sealant backer rod shall be closed cell.
9. Vapor Barriers – The use and location of vapor barriers within a wall assembly is the responsibility of the project designer and shall comply with local building code requirements. The type and location shall be noted on the project drawings and specifications. Vapor barriers may be inappropriate in certain climates and can result in condensation within the wall assembly. Refer to Dryvit Publication DSC159 for additional information.
10. Dark Colors: The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Use of dark colors (LRN < 20%) in high temperature climates can affect the performance of the system.
11. Flashing: Flashing shall be provided at all roof-wall intersections, windows, doors, chimneys, decks, balconies, and other areas as necessary to deflect water to the exterior and to prevent entry behind the Stratum Guard System.

D. Performance Requirements

1. The Stratum Guard System shall have been tested as follows:

a. Durability

1) Air/Water-Resistive Barrier Coating

TEST	TEST METHOD	CRITERIA	RESULTS
CCMC TG for EIFS, Appendix A4	All required criteria	Various	Pass
Additional Testing Carried on outside of CCMC Evaluation Included:			
Tensile Bond	ASTM C 297/E 2134 ICC ES (AC 212)*	Minimum 104 kPa (15 psi) -	Substrate: Minimum 131 kPa (19 psi) Flashing: Minimum 2970 kpa (431 psi)
Freeze Thaw	ASTM E 2485/ICC ES Proc. ICC ES (AC 212)*	No deleterious effects after 10 cycles	Passed – No deleterious effects after 10 cycles
Water Resistance	ASTM D 2247 ICC ES (AC 212)*	No deleterious effects after 14 days exposure	No deleterious effects after 14 days exposure
Water Vapor Transmission	ASTM E 96 Proc. B ICC ES (AC 212)*	Vapor Permeable	7 perms
Air Leakage	ASTM E 283	Less than 0.5 l/min/m ²	Passed
Racking	ASTM E 72 ICC ES (AC 212)*	No cracking in field, at joints or interface with flashing at net deflection of 3.2 mm (1/8 in)	Passed
Water Penetration	ASTM E 331 ICC ES (AC212)*	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 PA (2.86 psf)	Passed
Surface Burning Characteristics	ASTM E 84	Flame Spread < 25 Smoke Developed < 450	Passed
* AC212 – Acceptable Criteria For Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior Sheathing			

2) System

TEST	TEST METHOD	CRITERIA	RESULTS
Abrasion Resistance	ASTM D 968	No deleterious effects after 500 liters (528 quarts)	No deleterious effects after 1000 liters (1056 quarts)
Accelerated Weathering	ASTM G 155 Cycle 1	No deleterious effects after 2000 hours	No deleterious effects after 5000 hours
	ASTM G 154 Cycle 1 (QUV)		No deleterious effects after 5000 hours
Freeze-Thaw	ASTM E 2485 (formerly EIMA 101.01)	No deleterious effects after 60 cycles	Passed - No deleterious effects after 90 cycles
	ASTM C 67 modified	No deleterious effects after 60 cycles	Passed - No deleterious effects after 60 cycles
	ASTM E 2485/ICC ES Proc. ICC ES (AC235)***	No deleterious effects after 10 cycles	Passed - No deleterious effects after 10 cycles
Mildew Resistance	ASTM D 3273	No growth during 28 day exposure period	No growth during 60 day exposure period
Water Resistance	ASTM D 2247	No deleterious effects after 14 days exposure	No deleterious effects after 42 days exposure
Taber Abrasion	ASTM D 4060	N/A	Passed 1000 cycles
Salt Spray Resistance	ASTM B 117	No deleterious effects after 300 hours exposure	No deleterious effects after 1000 hours exposure
Water Penetration	ASTM E 331 ICC ES (AC 235)***	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 Pa (2.86 psf)	Passed 15 minutes at 137 Pa (2.86 psf)
Water Vapor Transmission	ASTM E 96	Vapor permeable	EPS 5 perm-inch Base Coat* 40 Perms Finish** 40 Perms
Drainage Efficiency	CCMC Appendix A4	>99% Efficiency after 48 hours	Passed
* Base Coat perm value based on Dryvit Primus ** Finish perm value based on Dryvit Quarzputz® *** AC 235 – Acceptance Criteria for EIFS Clad Drainage Wall Assemblies			

3) Impact Resistance: In accordance with EIMA Standard 101.86.

Reinforcing Mesh/Weight g/m ² (oz/lyd ²)	Minimum Tensile Strengths	EIMA Impact Classification	EIMA Impact Range		Impact Test Results	
			Joules	(in-lbs)	Joules	(in-lbs)
Standard - 146 (4.3)	27 g/cm (150 lbs/in)	Standard	3-6	(25-49)	4	(36)
Standard Plus - 203 (6)	36 g/cm (200 lbs/in)	Medium	6-10	(50-89)	6	(56)
Intermediate - 407 (12)	54 g/cm (300 lbs/in)	High	10-17	(90-150)	12	(108)
Panzer® 15 * - 509 (15)	71 g/cm (400 lbs/in)	Ultra High	>17	(>150)	18	(162)
Panzer 20 * - 695 (20.5)	98 g/cm (550 lbs/in)	Ultra High	>17	(>150)	40	(352)
Detail Short Rolls - 146 (4.3)	27 g/cm (150 lbs/in)	n/a	n/a	n/a	n/a	n/a
Corner Mesh - 244 (7.2)	49 g/cm (274 lbs/in)	n/a	n/a	n/a	n/a	n/a
*Shall be used in conjunction with Standard Mesh (recommended for areas exposed to high traffic)						

- 2. The Stratum Guard Components should have been tested for:
 - a. Durability

TEST	TEST METHOD	CRITERIA	RESULTS
Reinforcing Mesh Alkali Resistance of Reinforcing Mesh	ASTM E 2098 (formerly EIMA 105.01)	> 21dN/cm (120 pli) retained tensile strength after exposure	Passed
EPS (Physical Properties) Density	ASTM C 303, D 1622	15.2-20.0 kg/m ³ (0.95-1.25 lb/ft ³)	Pass
Thermal Resistance	ASTM C 177, C 518	4.0 @ 4.4 °C (40 °F) 3.6 @ 23.9 °C (75 °F)	Pass Pass
Water Absorption	ASTM C 272	2.5 % max. by volume	Pass
Oxygen Index	ASTM D 2863	24% min. by volume	Pass
Compressive Strength	ASTM D 1621 Proc. A	69 kPa (10 psi) min.	Pass
Flexural Strength	ASTM C 203	172 kPa (25 psi) min.	Pass
Flame Spread	ASTM E 84	25 max.	Pass
Smoke Developed		450 max.	Pass

1.05 SUBMITTALS

- A. Product Data – The contractor shall submit to the owner/architect the manufacturer’s product data sheets describing products, which will be used on this project.
- B. Samples: The contractor shall submit to the owner/architect two (2) samples for each finish, texture and color to be used on the project. The same tools and techniques proposed for the actual installation shall be used. Samples shall be of sufficient size to accurately represent each color and texture being utilized on the project.

1.06 QUALITY ASSURANCE

- A. Qualifications:
 - 1. System Manufacturer: Shall be Dryvit Systems Canada. All materials shall be manufactured or sold by Dryvit and shall be purchased from Dryvit or its authorized distributors.
 - a. Materials shall be manufactured at a facility covered by a current ISO 9001:2000 certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board (ANSI-RAB).
 - 2. Contractor: Shall be knowledgeable in the proper installation of the Dryvit Stratum Guard System and shall be experienced and competent in the installation of Exterior Insulation and Finish Systems. Additionally, the contractor shall possess a current Stratum Guard System Trained Contractor Registration*, issued by Dryvit Systems Canada.
 - 3. Insulation Board Manufacturer: Shall be listed by Dryvit Systems Canada, shall be capable of producing the Expanded Polystyrene (EPS) in accordance with the current Dryvit Specification for Insulation Board, DSC131, and shall subscribe to the Dryvit Third Party Certification and Quality Assurance Program.
- B. Regulatory Requirements:
 - 1. The EPS shall be separated from the interior of the building as required by code.
 - 2. The use and maximum thickness of EPS shall be in accordance with the applicable building code(s).
- C. Mock-Up
 - 1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval. This may be part of the overall work in which case, if deemed acceptable shall remain in place.
 - 2. The mock-up shall be of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.
 - 3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual applications. The finish used shall be from the same batch that is being used on the project.
 - 4. The approved mock-up shall be available and maintained at the job site.

1.07 DELIVERY, STORAGE AND HANDLING

- A. All Dryvit materials shall be delivered to the job site in the original, unopened packages with labels intact.
- B. Upon arrival, materials shall be inspected for physical damage, freezing, or overheating. Questionable materials shall not be used.
 - 1. Materials shall be stored at the jobsite in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Minimum storage temperature shall be as follows:
 - a. Demandit™, Revyvit™: 7 °C (45 °F)
 - b. Ameristone™, TerraNeo™ and Limestone™: 10 °C (50 °F)
 - c. DPR, PMR™ and E™ Finishes, Color Prime™, Primus DM: 4 °C (40 °F)
 - d. Custom Brick Finish: Refer to Custom Brick Polymer Specification, DSC151.
 - e. For other products, refer to specific product data sheets.
 - 2. Maximum storage temperature shall not exceed 38° C (100 °F). **NOTE: Minimize exposure of materials to temperatures over 32 °C (90 °F). Finishes exposed to temperatures over 43 °C (110 °F) for even short periods may exhibit skinning, increased viscosity and should be inspected prior to use.**
- C. Protect all products from inclement weather and direct sunlight.

1.08 PROJECT CONDITIONS

- A. Environmental Requirements
 - 1. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
 - 2. At the time of application, the minimum air and wall surface temperatures shall be as follows:
 - a. Demandit, Revyvit: 7 °C (45 °F)
 - b. Ameristone, TerraNeo and Limestone: 10 °C (50 °F)
 - c. DPR, PMR and E Finishes, Color Prime, Primus, Primus DM: 4 °C (40 °F)
 - d. Custom Brick Finish: refer to Custom Brick Polymer Specification, DSC151
 - e. For other products, refer to specific product data sheets
 - 3. These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for Ameristone, TerraNeo and Limestone) thereafter, or until the products are completely dry. Refer to published product data sheets for more specific information.
- B. Existing Conditions - The contractor shall have access to electric power, clean water, and a clean work area at the location where the Dryvit materials are to be applied.

1.09 SEQUENCING AND SCHEDULING

- A. Installation of the Stratum Guard System shall be coordinated with other construction trades.
- B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

1.10 WARRANTY

- A. Dryvit Systems Canada shall provide a written 10-year moisture drainage warranty combined with a ten (10) year limited warranty against defective material upon written request. Dryvit shall make no other warranties, expressed or implied. Dryvit does not warrant workmanship. Full details are available from Dryvit Systems Canada.
- B. The applicator shall warrant workmanship separately. Dryvit shall not be responsible for workmanship associated with installation of the Stratum Guard System.

1.11 DESIGN RESPONSIBILITY

- A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. Dryvit has prepared guidelines in the form of specifications, application details, and product sheets to facilitate the design process only. Dryvit is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Dryvit or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to Dryvit's published comments.

1.12 MAINTENANCE

- A. Maintenance shall follow the procedures noted in the Dryvit Homeowner's Maintenance Guide, DSC235, and repair shall follow the procedures noted in the Stratum Guard Application Instructions, DSC143C.
- B. All Dryvit products are designed to minimize maintenance. However, as with all building products, depending on location, some cleaning may be required. See Dryvit publication DSC152 on Cleaning and Recoating.
- C. Sealants and Flashings shall be inspected on a regular basis and repairs made as necessary.

PART II-PRODUCTS**2.01 MANUFACTURER:**

- A. All components of the Stratum Guard System and the patent pending Stratum Guard System II Notched Trowel shall be supplied or obtained from Dryvit or its authorized distributors. Substitutions or additions of materials other than those specified will void the warranty.

2.02 MATERIALS

- A. Portland Cement: Shall be Type I or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.
- B. Water: Shall be clean and free of foreign matter.

2.03 COMPONENTS

- A. Air/Water-Resistive Barrier Components:
 - 1. Water-Resistive Barrier Coating
 - a. Dryvit Backstop NT Texture: A flexible, polymer-based, noncementitious water-resistive coating.
 - b. Dryvit AquaFlash Mesh: Available in rolls of 102mm (4 in) wide by 54.9m (180 ft) long.
- B. Flashing Materials: Used to protect substrate edges at terminations.
 - 1. Liquid Applied: An extremely flexible water-based polymer material, ready for use.
 - a. Shall be AquaFlash and AquaFlash Mesh
 - 2. Sheet Type:
 - a. Shall be Dryvit EIFS Tape and Surface Conditioner
 - 1) Dryvit EIFS Tape: A high density fleece back rubberized asphalt adhesive membrane available in rolls of 102 mm (4 in), 152 m (6 in), and 229 mm (9 in) wide by 23 m (75 ft) long.
 - 2) Dryvit Flashing Tape Surface Conditioner™: A water-based surface conditioner and adhesion promoter for the Dryvit Flashing Tape to be applied at all lap joints.
- C. Dryvit AP Adhesive™: A moisture cure, urethane based adhesive used to adhere the Dryvit Drainage Strip.
- D. Accessories
 - 1. Dryvit Drainage Strip: A corrugated plastic material, which provides drainage.
- E. Drainage Medium Options
 - 1. Notched Trowel Adhesive (SG I): Adhesive (Primus) applied in a vertical orientation using the patent pending Stratum Trowel for attaching the insulation board to Backstop NT.
 - 2. Grooved Insulation Board (SG 2): Expanded polystyrene meeting Dryvit specification for Insulation Board, DSC131, minimum thickness 38 mm (1 ½ in), grooves spaced 102 mm (4 in) on center and having a chamfered edge all sides.
- F. Insulation Board: Expanded Polystyrene meeting the Dryvit Specification for Insulation Board, DSC131, and the following requirements:
 - 1. The thickness of the insulation board shall be minimum 38 mm (1.5 in) for either SG 1 or SG 2
 - 2. The insulation board shall be manufactured by a board supplier approved by Dryvit Systems Canada.
- G. Adhesive: For use in attaching insulation board to water-resistive barrier coating:
 - 1. Cementitious: A liquid polymer-based material, which is field mixed with Portland cement.
 - a. Shall be Primus or Primus DM
- H. Base Coat: Shall be compatible with the EPS insulation board and reinforcing mesh(es).
 - 1. Cementitious: A liquid polymer-based material, which is field mixed with Portland cement.
 - a. Shall be Primus or Primus DM.
 - 2. Ready mixed: A dry blend cementitious, copolymer-based product, field mixed with water.
 - a. Primus DM. Note: Primus DM has not undergone CCMC evaluation for use over wood-sheathings, but has undergone all other listed criteria found in the specification.
- I. Reinforcing Mesh: A balanced, open weave, glass fiber fabric treated for compatibility with other system materials. **Note: Reinforcing meshes are classified by impact resistance and specified by weight and tensile strength as listed in Section 1.04.D.1.a.3).**

- J. Finish: Shall be the type, color and texture as selected by the architect/owner and shall be one or more of the following:
1. Standard DPR (Dirt Pickup Resistance): Water-based, acrylic finish with integral color and texture, and formulated with DPR chemistry:
 - a. Quarzputz[®] DPR: Open-texture.
 - b. Sandblast[®] DPR: Medium texture.
 - c. Freestyle[®] DPR: Fine texture.
 - d. Sandpebble[™] DPR: Pebble texture.
 - e. Sandpebble Fine DPR: Fine pebble texture.
 2. E: Water-based, lightweight acrylic finish with integral color and texture, and formulated with DPR chemistry:
 - a. Quarzputz E
 - b. Sandpebble E
 - c. Sandpebble Fine E
 3. Specialty: Factory mixed, water-based acrylic:
 - a. Ameristone: Multi-colored quartz aggregate with a flamed granite appearance.
 - b. Stone Mist[™]: Ceramically colored quartz aggregate.
 - c. Custom Brick: Acrylic polymer-based finish used in conjunction with a proprietary template system to create the look of stone, brick, slate or tile.
 - d. TerraNeo: 100% acrylic-based finish with large mica chips and multi-colored quartz aggregates.
 - e. Limestone: A premixed, 100% acrylic-based finish designed to replicate the appearance of limestone blocks.
 4. Medallion Series PMR[™] (Proven Mildew Resistance): Water-based, acrylic finish with integral color and texture and formulated with PMR chemistry:
 - a. Quarzputz PMR
 - b. Sandblast PMR
 - c. Freestyle PMR
 - d. Sandpebble PMR
 - e. Sandpebble Fine PMR
 5. Coatings, Primers and Sealers:
 - a. Demandit
 - b. Weatherlastic[™] Smooth
 - c. Tuscan Glaze[™]
 - d. Revyvit
 - e. Color Prime
 - f. Prymit[™]
 - g. SealClear[™]

PART III-EXECUTION

3.01 EXAMINATION

- A. Prior to installation of the Stratum Guard System, the contractor shall verify that the substrate:
 1. Is of a type listed in Section 1.04 C.1.
 2. Is flat within 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.
 3. Is sound, dry, clean, free of efflorescence, connections are tight, has no surface voids, projections, or other conditions that may interfere with the Stratum Guard System installation or performance.
- B. Prior to installation of the Stratum Guard System, the architect or general contractor shall insure that all needed flashings and other waterproofing details have been completed, if such completion is required prior to the Stratum Guard System application. Additionally, the contractor shall ensure that:
 1. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards and Dryvit Stratum Guard System Installation Details, DSC106C, or as otherwise necessary.
 2. Openings are flashed in accordance with the Dryvit Stratum Guard System Installation Details, DSC106C, or as otherwise necessary to prevent water penetration.
 3. Chimneys, balconies and decks have been properly flashed.
 4. Windows, Doors, etc. are installed and flashed per manufacturer's requirements and the Stratum Guard System Installation Details, DSC106C, as well as applicable code requirements.

- C. Prior to the installation of the Stratum Guard System, the contractor shall notify the general contractor, and/or architect and/or owner of all discrepancies.

3.02 PREPARATION

- A. The Stratum Guard materials shall be protected by permanent or temporary means from inclement weather and other sources of damage prior to, during, and following application until completely dry.
- B. Protect adjoining work and property during Stratum Guard installation.
- C. Prior to the application of Dryvit Backstop NT water-resistive barrier, the substrate shall be prepared as to be free of foreign materials such as oil, dust, dirt, form release agents, efflorescence, paint, wax, water repellants, moisture, frost, and any other condition that may inhibit adhesion.
1. The application of Backstop NT is to be covered within 30 days of application.

3.03 INSTALLATION

- A. The system shall be installed in accordance with the Dryvit Stratum Guard System Application Instructions, DSC143C.
- B. The overall minimum base coat thickness shall be sufficient to fully embed the mesh. The recommended method is to apply the base coat in two (2) passes.
- C. Sealant shall not be applied directly to textured finishes or uncoated base coat surfaces. Dryvit Stratum Guard System surfaces in contact with sealant shall be coated with Demandit or Color Prime.
- D. High impact meshes shall be installed as specified and are recommended at ground level, high traffic areas and other areas exposed to or susceptible to impact damage.

3.04 FIELD QUALITY CONTROL

- A. The contractor shall be responsible for the proper application of the Stratum Guard materials.
- B. Dryvit assumes no responsibility for on-site inspections or application of its products.
- C. If required, the contractor shall certify in writing the quality of work performed relative to the substrate system, details, installation procedures, workmanship and the specific products used.
- D. If required, the EPS supplier shall certify in writing that the EPS meets Dryvit's specification.
- E. If required, the sealant contractor shall certify in writing that the sealant application is in accordance with the sealant manufacturer's and Dryvit's recommendations.

3.05 CLEANING

- A. All excess Stratum Guard System materials shall be removed from the job site by the contractor in accordance with contract provisions and as required by applicable law.
- B. All surrounding areas, where the Dryvit Stratum Guard System has been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

3.06 PROTECTION

- A. The Stratum Guard System shall be protected from inclement weather and other sources of damage until dry and permanent protection in the form of flashings, sealants, etc. are installed.