

Backstop™ NT - Texture Application Instructions

CHECKLIST PRIOR TO THE INSTALLATION OF BACKSTOP NT – TEXTURE

Project Conditions

- Maximum storage temperature shall not exceed 38 °C (100 °F). Minimum storage temperature shall not be less than 4 °C (40 °F).
- Air and surface temperatures for application of Backstop NT – Texture must be 4 °C (40 °F) or above and must remain so for a minimum of 12 hours thereafter.
- Ensure that all roof-to-wall flashings, wall to deck flashings, run-off diverters (i.e. kick-outs), or other penetration flashings, are installed where required to direct water to the exterior of the building envelope. Particular attention must be paid to the eaves/chimney intersections, sloped roof/wall intersections, decks and windows.
- Protect materials from inclement weather until they are completely dry.
- Protect surrounding areas and surfaces during installation of the Backstop NT - Texture.
- Backstop NT - Texture should not be left exposed to weather and UV more than 30 days, prior to being covered with one of Dryvit's Exterior Insulation and Finish Systems.

MATERIALS REQUIRED FOR INSTALLING DRYVIT'S BACKSTOP NT - TEXTURE

Materials Supplied by Dryvit System Canada

Dryvit Backstop™ NT - Texture
Dryvit AquaFlash® Liquid and AquaFlash® Mesh (required for wood-based sheathing)
Dryvit Grid Tape™ or AquaFlash® Mesh (Required for sheathing joint treatment)
Dryvit Detail Mesh (for rough opening preparation)
Dryvit Flashing Tape™ (if specified)
Dryvit Flashing Tape Surface Conditioner™ (if specified)

TOOLS REQUIRED FOR THE INSTALLATION OF DRYVIT'S BACKSTOP NT - TEXTURE

- A. Stainless steel spatula or trowel
- B. Utility knife
- C. Tape measure
- D. Hawk
- E. Appropriate spray equipment (if spray applying material)
- F. For roller applications use only a coarse, open celled, 9 in. foam paint roller cover with 3/8 in. foam nap.

I. Mixing

- A. Open the pail with a utility knife or lid removal tool.
- B. Due to shipping and storage, there may be some settling of materials. Prior to using, mix the material to a smooth homogeneous consistency using a Wind-lock B-M1 or B-M8, or equivalent, mixing blade powered by a 12.7 mm (1/2 in) drill, at 400-500 rpm. **CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance compromise.**
- C. Do not dilute the product or add any foreign materials to the Backstop NT - Texture product.

II. Substrate Check

- A. Ensure that the substrate is of a type approved in the Backstop NT - Texture Specification DSC176.
- B. Ensure that ambient and surface temperatures are minimum 4 °C (40 °F) and rising at the time of Backstop NT application.
- C. Ensure that the substrate is dry. Plywood or OSB moisture content shall not exceed 19% as measured by a probe type moisture meter.
- D. Ensure that the substrate is flat within 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.

- E. Ensure that sheathing gaps do not exceed 6.4 mm (1/4 in). Larger gaps must be corrected by replacing the sheathing material.
- F. Notify the General Contractor and/or Architect and/or Owner of all discrepancies. Do not proceed with work until discrepancies have been corrected.

III. Surface Preparation

- A. The substrate shall be free of foreign materials such as oil, dust, dirt, paint, efflorescence, wax, water repellents, moisture, frost and any other surface contaminants that may inhibit adhesion.

IV. Backstop NT - Texture Application

- A. Ensure that the wall surface and ambient temperature are above 4 °C (40 °F) and rising at the time of Backstop NT application. **WARNING: Do not apply the Dryvit materials in the rain. The underlying wall materials and substrate surface must be dry prior to applying the air/water-resistive barrier.**
- B. Sheathing Substrates:
 - 1. Prior to applying the Backstop NT - Texture over a sheathing substrate, check to ensure that:
 - a. The sheathing is of a type listed in the Backstop NT - Texture Specification, DSC176.
 - b. The sheathing is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Backstop NT material.
 - c. The sheathing is clean, dry and free of grease, oil, paint and other foreign material.
 - 1) Exterior grade gypsum sheathing facing paper shall not show signs of deterioration and shall be firmly bonded to the core.
 - 2) Plywood or OSB moisture content shall not exceed 19% as measured by a probe type moisture meter.
 - d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius. **SHEATHING WITH GAPS OR DAMAGE EXCEEDING 6.4 MM (1/4 IN) IN ANY ONE DIRECTION MUST BE REPLACED. NOTE: Notify the general contractor and/or architect and/or owner of all discrepancies. Do not proceed until all unsatisfactory conditions have been corrected. NOTE: OSB sheathing requires that joints and fasteners be treated with Backstop NT - Texture.**
- C. Concrete or Masonry Substrate
 - NOTE: Backstop NT - Texture is recommended for use over concrete and masonry.**
 - A. Prior to applying the Backstop NT - Texture over a concrete or masonry substrate, check to ensure that:
 - a. **All cracks are repaired using appropriate procedures and materials.**
 - b. **The substrate is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Backstop NT - Texture material.**
 - c. The substrate is clean, dry, free of grease, oil, paint, form release agents, efflorescence and other foreign materials that may inhibit adhesion.
 - d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius.
 - 1) Mortar joints that are NOT struck flush or heavily textured masonry units shall be skim coated with Dryvit Genesis™ or Genesis™ DM prior to the application of Backstop NT - Texture.
 - a) Mix Genesis or Genesis DM in accordance with the appropriate Product Data Sheet.
 - b) With a stainless steel trowel, apply a coat of the Genesis mixture or Genesis DM mixture over the substrate to fill the mortar joints and surface texture to provide a uniform smooth surface for the application of the Backstop NT - Texture.
 - c) Allow the skim coat to completely dry prior to applying the Backstop NT – Texture

D. Backstop NT – Texture Usage Chart

Backstop NT – Texture Usage/Application Chart				
Substrate	Location	Product	Tool	Approximate Coverage Per Pail ^e
DensGlass Gold® OSB	Joints ^a	Backstop NT - Texture	Trowel	91 m (300 lin. ft.)
	Face ^f	Backstop NT – Texture	Trowel	23-28 m ² (250-300 ft ²) [includes joints]
			19 mm (¾ in) Nap Roller	37 m ² (400 ft ²) ^c
Exterior Grade Plywood and Exterior Cement Board	Joints ^a	Backstop NT - Texture	Trowel	91 m (300 lin. ft.)
	Face ^f	Backstop NT – Texture	Trowel or FoamPRO #58 Roller ^b	For both tools 23-28 m ² (250-300 ft ²)
			13 mm (1/2 in) Nap Roller	37 m ² (400 ft ²) ^c
Concrete and Masonry ^{d, g}	Face	Backstop NT - Texture	Trowel ^g	16.7 m ² (180 ft ²) ^h
			FoamPRO #58 Roller ^b	11-14 m ² (125-150 ft ²) 2 coats

^a Tape the joints with Dryvit Grid Tape or AquaFlash Mesh prior to application of Backstop NT – Texture at joints and screw heads. Wood sheathing joints shall be reinforced with 4" AquaFlash Mesh – previously known as scrim tape.

^b Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NT – Texture for roller or spray applications only. The FoamPRO #58 roller cover (FoamPRO Mfg., Inc., www.foampromfg.com) is available at home supply stores.

^c Because of application methodology and absorptive surface differences, two coats may be required to obtain this coverage.

^d Apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the dried BSNT – Texture, particularly at the mortar joints, the job should be parged with Genesis, 24 hours prior to BSNT – Texture roller application.

^e Backstop NT – Texture should be applied at the recommended coverage rates to form a continuous film free of voids at a dry film thickness of approximately 4 mils.

^f Backstop NT – Texture (with up to 1 pint water addition per 60 lb. pail) may be sprayed and backtrowelled/backrolled.

^g Due to variations in types of masonry a 6 ft x 6 ft test area shall be prepared to ensure that a continuous film can be achieved. Backstop NT - Texture shall not be used as a skim coat for parging joints or heavy textured units.

^h Coverage may vary depending on the porosity of the masonry substrate. Coverage based on smooth dense block surface.

E. Application of Backstop NT – Texture

1. Dryvit Grid Tape (**not for use with wood-based sheathing applications**)
 - a. For non-wood based sheathing substrates, apply the Dryvit Grid Tape along all joints in the sheathing, as well as inside corners, outside corners, and exposed edges at terminations that will not be covered with Dryvit AquaFlash or Dryvit Flashing Tape.
 - b. Center the Dryvit Grid Tape on the sheathing joints, edges, etc. with the pressure sensitive adhesive backing in contact with the sheathing surface. Press into position with hand pressure until adhesion is achieved.
 - c. Apply only enough Dryvit Grid Tape as can be covered with Backstop NT - Texture in the same day.
2. Dryvit AquaFlash Mesh (required for wood based sheathing)
 - a. Using a stainless steel trowel apply Backstop NT to all sheathing joints including inside and outside corners.
 - b. Center the 100 mm (4in) AquaFlash Mesh over sheathing joints and immediately embed into wet Backstop NT material

3. Dryvit Backstop NT - Texture
 - a. General: Backstop NT - Texture can be applied using a roller, trowel or spray equipment over the listed substrates, as noted in the usage chart above. Backstop NT - Texture shall be applied at the recommended coverage rate at a wet film thickness of minimum 0.3 mm (12 mils).
 - b. Roller Application (Refer to Appendix A forming part of these application instructions).
 - 1) Apply Dryvit Grid Tape as described in Section IV.E.1 above. Mix the Backstop NT - Texture material as described in Section I. Using a stainless steel trowel or spatula, apply a layer of Backstop NT - Texture over the Dryvit Grid Tape and spot all fastener heads (See appendix A). **NOTE: Dryvit Grid Tape is not necessary over fastener heads.**
 - 2) Allow to dry for a minimum of 2 hours or until dry to the touch. **NOTE: Cool, humid conditions may require longer drying times.**
 - a) Because of the absorption characteristics, plywood substrates may require a second pass to fill any voids at the sheathing joints. After the first pass has dried, check the joints and spot any voids that may be present with additional Backstop NT - Texture material and allow to dry.
 - 3) Use a coarse, open-cell foam roller cover with a 9.5 mm (3/8 in) foam nap (FoamPro #58 roller). Apply a uniform, continuous film of Backstop NT - Texture over the entire surface of the sheathing, concrete or masonry, including the previously treated areas (See Appendix A). **NOTE: If the roller pulls material back out of the sheathing joints, it indicates that the joint material is not sufficiently dry.**
 - a) For concrete and masonry, ensure that a continuous film of uniform thickness is applied across the entire surface and across mortar joints. Minimum 2 coats are required allowing a minimum of 2 hours between coats. Cool, damp weather may require longer time between coats.
 - 4) While the Backstop NT - Texture is still wet, using a trowel or spatula, smooth out the Backstop NT - Texture around all window and door perimeters and other areas that will later receive Dryvit Flashing Tape or Dryvit AquaFlash System.
 - 5) The Backstop NT - Texture material should be applied in a uniform, continuous film at the recommended coverage rate. **NOTE: Substrates with a surface texture or high porosity will require additional material.**
 - c. Trowel Application (Refer to Appendix A forming part of these application instructions)
 - 1) Apply Dryvit Grid Tape as described in Section IV.E.1 above. Mix the material, as described in Section I and using a stainless steel trowel or spatula, apply a layer of Backstop NT - Texture over the grid tape. Spotting of fasteners is not necessary when applying Backstop NT - Texture using a trowel. Allow to dry for a minimum of 2 hours or until dry to the touch.
 - 2) Using a stainless steel trowel, apply a continuous coating of Backstop NT - Texture material onto the entire surface. The material should be applied at a smooth, uniform, continuous film approximately equal to the thickness of the aggregate.
 - d. Spray/Back-rolling Application (Refer to Appendix A forming part of these application instructions)
 - 1) Apply Dryvit Grid Tape as described in Section IV.E.1 above. Mix the material as described in Section I and using a stainless steel trowel or spatula, apply a layer of Backstop NT - Texture over the grid tape and spot all fastener heads. Allow to dry for a minimum of 2 hours or until dry to the touch.
 - 2) Because of the absorption characteristics, plywood substrates may require a second pass to fill any voids at the sheathing joints. After the first pass has dried, check the joints and spot any voids that may be present with additional Backstop NT - Texture material and allow to dry.
 - 3) Using a hand held hopper gun or other suitable spray equipment; spray a layer of Backstop NT -Texture onto the wall surface. Using a coarse, open-cell foam roller cover with a 9.5 mm (3/8 in) foam nap (FoamPRO #58 roller), roll the material to create a smooth continuous film. **NOTE: If the roller pulls material back out of the sheathing joints, it indicates that the joint material is not sufficiently dry.**
 - 4) While Backstop NT - Texture is still wet, using a trowel or spatula, smooth out the Backstop NT - Texture around all window and door perimeters and other areas that will later receive Dryvit Flashing Tape or Dryvit AquaFlash System.

- 5) Backstop NT - Texture material should be applied in a uniform, continuous film at the recommended coverage rate. **NOTE: Substrates with a surface texture or high porosity will require additional material.**
- F. For EIF Systems using a Drainage Track along the base of walls, the Backstop NT - Texture may be brought over the vertical leg of the track to direct water into the track. The track is first fastened into the underlying framing using corrosion resistant screws. The track should be wiped clean with an acetone, vinegar or other cleaner to remove any surface oils, dirt, etc. Apply a strip of Grid Tape centred along the top edge of the track. Using a trowel or spatula, apply a layer of Backstop NT - Texture over the Grid Tape, trowel smooth and feather onto surrounding surface. Ensure that there are no voids in the Backstop NT - Texture material along the top leg of the Drainage Track.
 - G. Prior to proceeding, check the wall to ensure that the Backstop NT - Texture is continuous and spot any visible voids with additional Backstop NT - Texture material.
 - H. For areas where the secondary barrier is required to lap onto flashing or other material, it is recommended that Transition Membrane be used to achieve the transition.
 - I. Under normal conditions the wall will be ready to receive Flashing Tape (when necessary) and adhesively applied EPS insulation after a minimum 4-hour drying period. As with all products that dry by evaporation, the drying rate will depend on the environmental conditions and porosity of the substrate. Cool damp weather will require longer drying times.
 - J. Also, during cool, damp weather, Dryvit Surface Conditioner™ may be necessary to promote/assist in proper membrane adhesion. Install the specified Dryvit Exterior Insulation and Finish System per published installation instructions for the specific system being used.

DISCLAIMER

Information contained in these application instructions conforms to standard detail and product recommendations for the installation of the Dryvit Backstop NT - Texture product 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 ensure that you are using the latest, most complete information, contact Dryvit Systems Canada.

APPENDIX A

Backstop NT - Texture

001

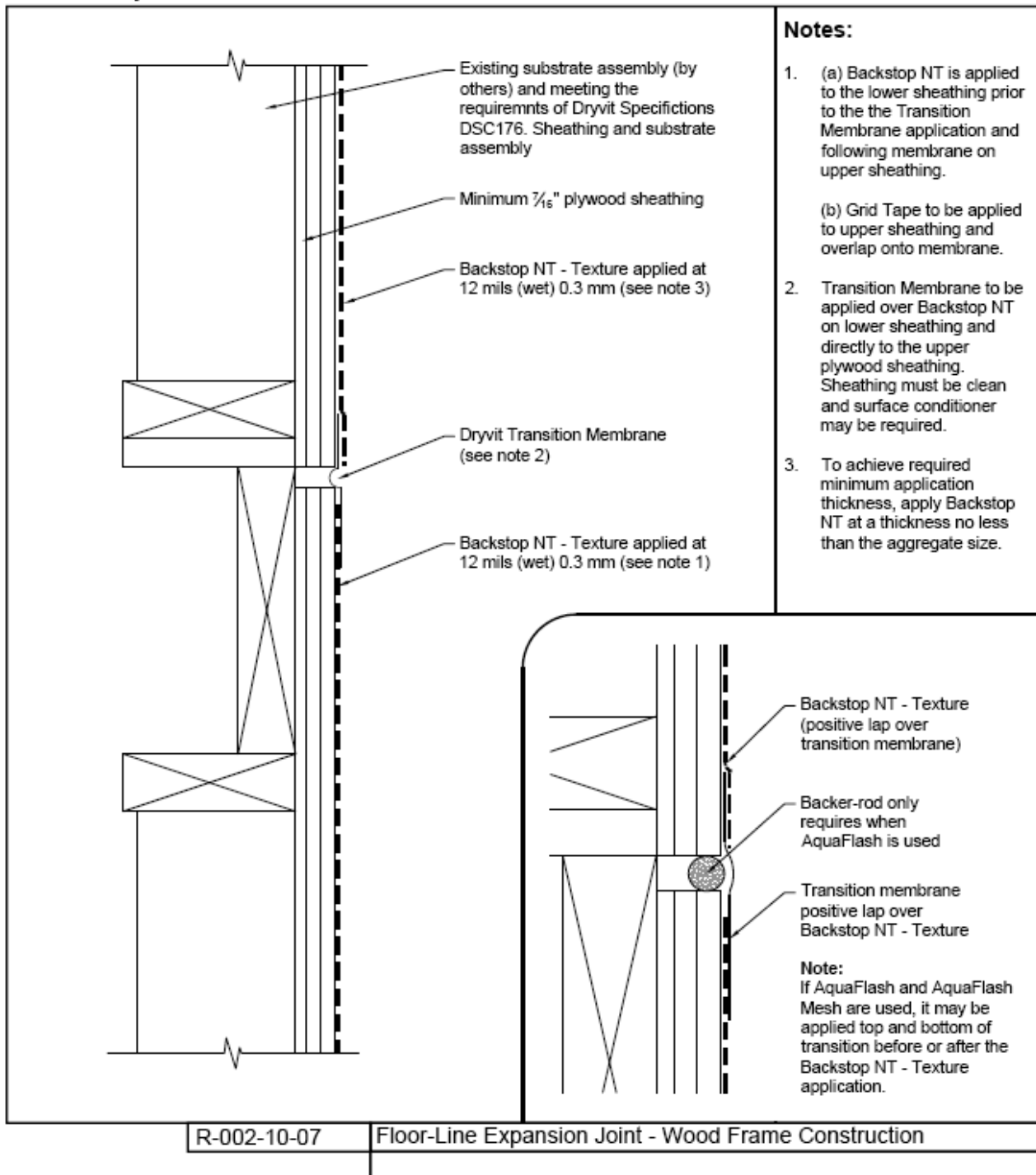
<p>The diagram illustrates the four-step application process for Backstop NT texture on a wood frame wall. Step 1 shows the texture being applied to fill gaps between sheathing panels and around fasteners. Step 2 shows a mesh tape being embedded into a joint between two panels. Step 3 shows the texture being applied to the joint area. Step 4 shows the final textured surface covering the entire wall area.</p>	<h4>Application Sequence</h4> <ol style="list-style-type: none"> 1. Pre-fill all fasteners, voids and gaps in sheathing greater than 3.2 mm using Backstop NT - Texture. 2. Embed Dryvit Scrim Tape at all sheathing joints including inside and outside corners. Alternatively, Dryvit Detail Mesh may be used at corner locations. 3. Cover joints and allow to dry. 4. Once previous steps have dried, cover entire sheathing surface using Backstop NT - Texture to a minimum uniform thickness equal to the aggregate size.
R-002-10-07	Wood Frame Construction - Sheathing Preparation

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Backstop NT - Texture

002

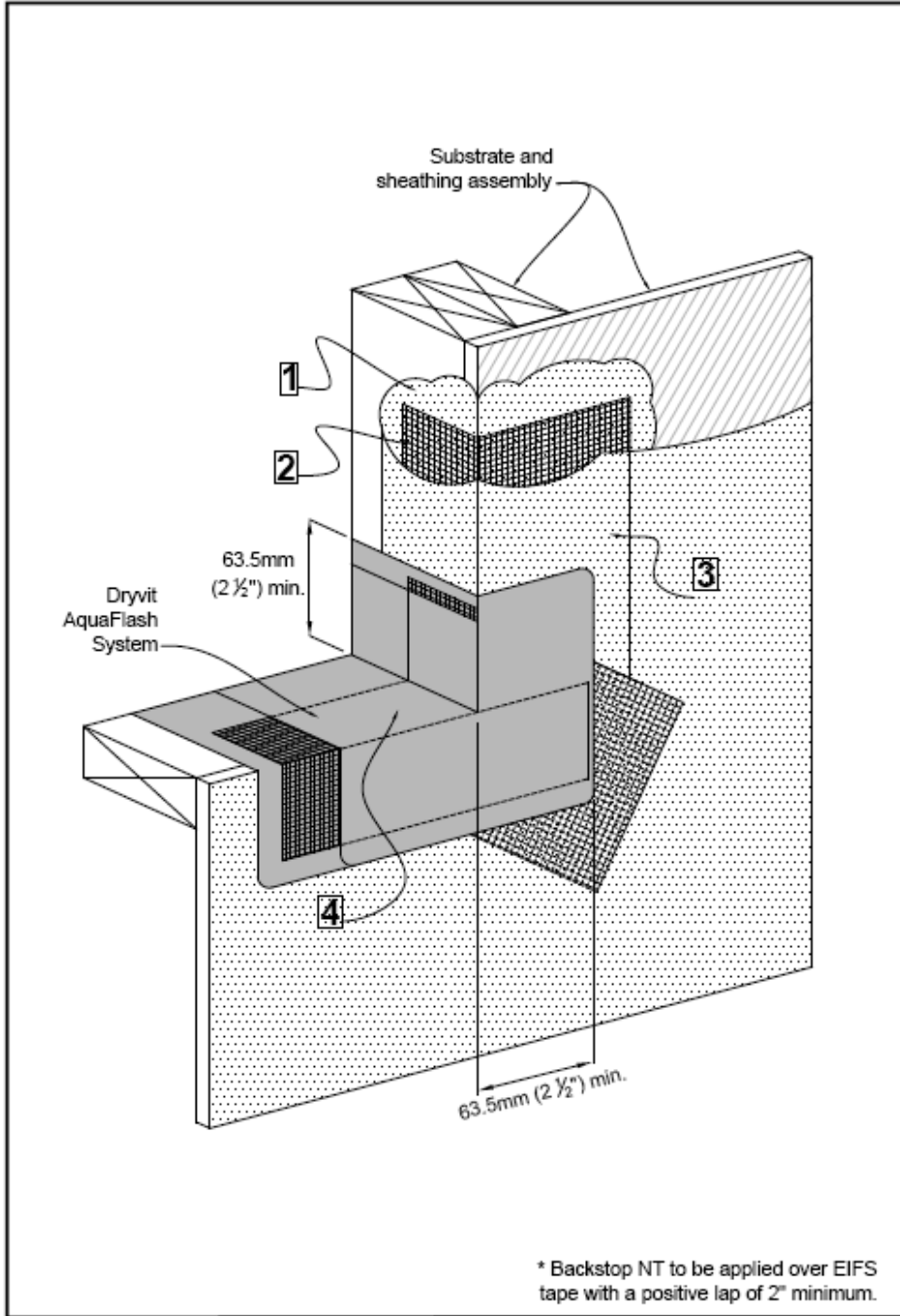


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Backstop NT - Texture

003



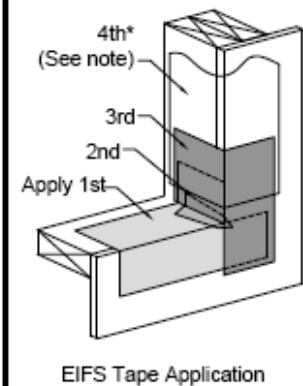
Application Sequence and Notes:

1. Apply Backstop NT Texture over sheathing and into rough opening.
2. Embed Detail Mesh into Backstop NT Texture, stopping at sill. Embed diagonal mesh as shown at all corners.
3. Once embedment is complete, apply Backstop NT Texture over remainder of the substrate as illustrated.
4. Apply AquaFlash and AquaFlash mesh as per DSC196 - Sills only if Backstop NT Texture is applied around the balance of the rough opening.

AquaFlash is applied using a brush or deep-nap roller. Embed AquaFlash Mesh into wet AquaFlash and allow to set.

Apply second coat fully covering the AquaFlash Mesh.

Alternatively, Dryvit's Flashing tape or EIFS tape may be used and is applied around the entire rough opening, but not returning to the header. See illustration below.



R-002-10-07

Protection of Rough Openings

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