

Channeled Adhesive CI Design

Adhesively-applied, continuously insulated moisture drainage exterior wall cladding featuring a Senershield fluid-applied air/water-resistive barrier.

SYSTEM DESCRIPTION

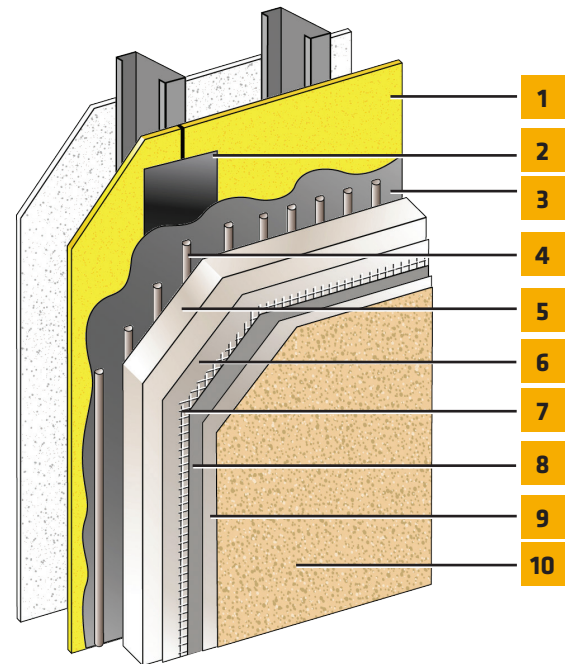
Channeled Adhesive CI Design is a continuously insulated moisture-drainage wall cladding system. It features a Senershield fluid-applied air/water-resistive barrier, moisture drainage, up to R46 (12" Type I EPS) continuous exterior insulation, optional SikaWall Ultra HI 20 reinforcing mesh and a wide range of finish options.

USES

Channeled Adhesive CI Design may be used in fire-resistance-rated construction and in any construction type (IBC Types I through V), when installed in accordance with Sika instructions.

ACCEPTABLE SUBSTRATES

Poured concrete/unit masonry; ASTM C1177 type sheathings, including DensGlass™ exterior sheathing, DensElement (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; cement-boards (ASTM C1325 Type A Exterior) including PermaBase™ cement-board; untreated Exposure I or exterior plywood sheathing (grade C-D or better); untreated Exposure I OSB, Huber Zip (sheathing only); Fire Treated wood sheathing; Pyro-Guard® and Dricon® plywood and FlameBlock® OSB; gypsum sheathing (ASTM C79/ASTM C1396).



CODE COMPLIANCE

Document	Description
ICC-ESR 1878	Complies with IBC and IRC
ASTM E2568 / AC 235	Complies with requirements
ASTM E119	Does not detract from fire rating of base wall
ICC-ESR 2986 (Senershield-R/-RS)	Air/water-resistive barrier*
NFPA 285/268	Meets requirements for use on fire-resistance-rated construction and in any construction type, including IBC Types I through V
CCMC 13062-R	Complies with National Building Code of Canada
Miami Dade NOAS	Meets Miami Dade hurricane requirements
For testing results, please reference Senerflex Channeled Adhesive CI Design specification.	

1. Acceptable substrate*
2. SikaWall Joint Treatment: Sheathing Fabric, MaxFlash or Flash Seal NP
3. Senershield-R/-RS/-VB
4. Senergy Adhesive
5. Approved EPS Insulation Board*
6. Senergy Base Coat
7. Senergy or SikaWall Reinforcing Mesh
8. Senergy Base Coat
9. SikaWall Tinted Primer (optional)
10. Senergy Finish Coat

*By Others

*Senershield-R/-RS/-VB can be used behind all claddings where more than one wall system is specified, creating one continuous AWRB system. This is appropriate whenever Senergy Senerflex Channeled Adhesive CI Design is used with other cladding types on a multi-clad building.

Channeled Adhesive CI Design

MATERIAL SUBSTITUTION

Material substitution will adversely affect system performance and will void all warranty coverage unless approved in writing by Sika Facades Technical Service Team.

DESIGN CONSIDERATIONS

- For use on above grade vertical walls. System must terminate a minimum of 6" (152 mm) above grade.
- Compatible with SikaWall MaxGrip Veneer Adhesive and adhered veneer. Reference Senerflex Channeled Adhesive CI Design with SikaWall MaxGrip Veneer Adhesive system literature.
- Use SikWall Strong 15 or Ultra HI 20 Reinforcing Mesh at ground floor and on other locations where high traffic is expected.
- All substrates must be clean, dry and sound without planar irregularities greater than 1/4" per 10' (6 mm per 3 m).

WARRANTY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com/senergy or by calling Sika Facades' Technical Service Department at 1-800-589-1336. Nothing contained in any Sika literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the Sika product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of Sika products are subject to the Terms and Conditions of Sale which are available at usa.sika.com.



Channeled Adhesive CI Design – Section 07 24 19

Water-drainage polymer-based EIFS incorporating vertical drainage channels and an air/water-resistive barrier.

INTRODUCTION

This specification has been assembled to enable the design professional to select or delete sections to suit the project requirements and is intended to be used in conjunction with Senergy® typical details, product bulletins, technical bulletins, etc.

DESIGN RESPONSIBILITY

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its 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. The Senergy® brand of Sika Corporation US (herein referred to as “Sika”) has prepared guidelines in the form of specifications, typical application details, and product bulletins to facilitate the design process only. Sika 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 provided by Sika or otherwise, or for any changes which the purchasers, specifiers, designers or their appointed representatives may make to Sika published comments.

Designing and Detailing a Channeled Adhesive CI Design Wall System

General: The system shall be installed in strict accordance with current recommended published details and product specifications from the system’s manufacturer.

A. Wind Load

1. Maximum deflection not to exceed L/240 under positive or negative design loads.
2. Design for wind load in conformance with local code requirements.

B. Substrate Systems

1. Acceptable substrates are: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including, Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Huber Zip (sheathing only) Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.
2. Painted and otherwise coated surfaces of brick, unit masonry, stucco and concrete shall be inspected and prepared as approved by Sika before application. The applicator shall verify that the proposed substrate is acceptable prior to the Channeled Adhesive CI Design Wall System installation. Field adhesion tests shall be performed as necessary.
3. The substrate systems shall be engineered with regard to structural performance by others.

C. Moisture Control

1. Prevent the accumulation of water behind the EIFS, either by condensation or leakage through the wall construction, in the design and detailing of the wall assembly.
 - a. Provide flashing to direct water to the exterior where it is likely to penetrate components in the wall assembly, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, and at the base of the wall and anywhere else required by local code.
 - b. Air Leakage Prevention: Provide continuity of air barrier system at the foundation, roof, windows, doors and other penetrations through the system with connecting and compatible air barrier components to minimize condensation and leakage caused by air movement.
 - c. Vapor Diffusion and Condensation: Perform a dew point analysis of the wall assembly to determine the potential for accumulation of moisture in the wall assembly as a result of water vapor diffusion and condensation. Adjust insulation thickness and/or other wall assembly components accordingly to minimize the risk of condensation. Avoid the use of vapor retarders on the interior side of the wall in warm, humid climates.

Senergy Channeled Adhesive CI Design Wall System

- d. Openings must be flashed prior to window/door, HVAC, etc. installation to provide moisture protection of the building frame and interior. Reference Senersshield published details and product data sheet.

D. Impact Resistance: Provide ultra-high impact resistance to a minimum height of 6' (1.8m) above finished grade at all areas accessible to pedestrian traffic and other areas exposed to abnormal stress or potential impact. Indicate the areas with impact resistance requirements other than "Standard" on contract drawings.

E. Color Selection: The use of dark colors must be considered in relation to wall surface temperature as a function of local climate conditions. Select a finish coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with EIFS that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 160°F (71°C).

F. System Joints:

1. Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
2. Sealant joints are required at all penetrations through the Channeled Adhesive CI Design Wall System (windows, doors, etc.)
3. Specify compatible closed cell backer rod and acceptable sealant that has been evaluated in accordance with ASTM C 1382, "Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish System (EIFS) Joints," and that meets minimum 50% elongation after conditioning.

G. System Terminations:

1. The system must be properly terminated (backwrapped a min. of 2 ½" (63 mm), properly sealed, flashed) at all penetrations, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.
2. When using SikaWall Rapid Bond, terminations must be pre-backwrapped with Senergy base coat and SikaWall Detail Backwrap Mesh.

H. Grade Condition: The Channeled Adhesive CI Design Wall System is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure. Ensure a minimum 6" (152 mm) clearance above grade or as required by code, a minimum 1" (25 mm) clearance above finished grade (sidewalk/concrete flatwork).

I. Trim, Projecting Architectural Features

(NOTE TO SPECIFIER: Installation of the Senergy wall system outside the slope guidelines referenced in this specification may still qualify for a standard warranty; however, low sloping EIFS conditions are subject to extreme heat, increased maintenance and premature deterioration of the system shall be expected and any deleterious effects caused by the lack of slope will not be the responsibility of Sika. Senergy wall systems are designed and tested to be applied to vertical surfaces. The design professional has the option to build according to his/her project needs. The design professional must also consider geography, climate, building orientation, wall orientation and adjacent building components when designing with EIFS. The slope guidelines referenced below are provided to assist the owner and/or design professional. Final design of any building is the responsibility of the design professional.)

1. Minimum slope for all projections shall be 1:2 (27°) with a maximum length of 12" (30.5 cm) [6" in 12" (15 cm in 30.5 cm)]. Increase slope for northern climates to prevent accumulation of ice/snow on the surface.

J. Coordination with other trades

1. Evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.
2. Air seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of an air barrier system and must be considered by the design professional in the overall wall assembly design. Install air seals between the primary air/water-resistive barrier and other wall components (penetrations, etc.) in order to maintain continuity of an

Senergy Channeled Adhesive CI Design Wall System

air barrier system.

3. Provide site grading such that Channeled Adhesive CI Design Wall System terminates a minimum of 6" (152 mm) above finished grade or as required by code.
4. Provide protection of rough openings in accordance with Senergy Senershield product data sheet and standard details before installing windows, doors, and other penetrations through the wall.
5. Install copings and sealant immediately after installation of the Channeled Adhesive CI Design Wall System and when Senergy coatings are completely dry.

TECHNICAL INFORMATION

Consult Sika Facades' Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, usa.sika.com/senergy, for additional information about products, systems, and updated literature.

PART 1 GENERAL

NOTE TO SPECIFIER: Items in blue/underlined indicate a system option or choice of options. Throughout the specification, delete those which are not required or utilized.

1.01 SECTION INCLUDES

- A. Refer to all drawings and other sections of this specification to determine the type and extent of work therein affecting the work of this section, whether or not such work is specifically mentioned herein.
- B. Channeled Adhesive CI Design Wall System: Composite wall Exterior Insulation and Finish System consisting of Senergy air/water-resistive barrier, Senergy adhesive/base coat, Approved Rigid Insulation, Senergy reinforcing mesh, and Senergy finish coat.
- C. Senergy products are listed in this specification to establish a standard of quality. Any substitutions to this specification shall be submitted to and receive approval from the Architect at least 10 days before bidding. Proof of equality shall be borne by the submitter.
- D. The system type shall be Senergy Channeled Adhesive CI Design Wall System as manufactured by Sika Corporation US, Lyndhurst, NJ.

1.02 RELATED SECTIONS

- A. Section 03 00 00 Concrete substrate
- B. Section 04 00 00 Masonry substrate
- C. Section 05 40 00 Cold-formed metal framing
- D. Section 06 16 00 Sheathing
- E. Section 06 11 00 Wood framing
- F. Section 07 27 00 Air barriers
- G. Section 07 62 00 Sheet Metal Flashing and Trim
- H. Section 07 65 00 Flexible flashing
- I. Section 07 90 00 Joint protection
- J. Section 08 00 00 Openings
- K. Section 09 22 00 Supports for plaster and gypsum board
- L. Section 09 22 16 Non-structural metal framing
- M. Section 09 29 00 Gypsum board

1.03 DEFINITIONS

- A. Exterior Insulation and Finish System: Exterior assembly comprised of adhesive, rigid insulation, base coat, reinforcing mesh, and finish coat.
- B. Class PB Systems: A class of EIFS where the base coat varies in thickness depending upon the number of layers or thickness of reinforcing mesh. The reinforcing material is glass fiber mesh, which is embedded into the base coat at the time of installation. The base coat shall be applied to achieve reinforcing mesh embedment with no reinforcing mesh color visible, nominal thickness of 1/16" (1.6 mm). Protective finish coats, of various thicknesses, in a variety of textures and colors, are applied over the base coat.
- C. EIFS with drainage: A wall cladding design with an exterior surface for primary weather protection and aesthetics, which incorporates an inner secondary air/water-resistive barrier and drainage plane to accommodate incidental moisture and direct it to the exterior.

Senergy Channeled Adhesive CI Design Wall System

1.04 SUBMITTALS

- A. Submit under provisions of Section [01 33 00]
- B. Product Data: Provide data on Channeled Adhesive CI Design Wall System materials, product characteristics, performance criteria, limitations and durability.
- C. Code Compliance : Provide manufacturer's applicable code compliance report.
- D. Samples: Submit [\[two\]](#) [\[x\]](#) [\[millimeter\]](#) [\[inch\]](#) size samples of Channeled Adhesive CI Design Wall System illustrating finish coat color and texture range.
- E. Certificate: System manufacturer's approval of applicator.
- F. Sealant: Sealant manufacturer's certificate of compliance with ASTM C1382.
- G. System manufacturer's current specifications, typical details, system overview and related product literature which indicate preparation required, storage, installation techniques, jointing requirements and finishing techniques.

1.05 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the EIFS industry, with more than 1000 completed EIFS projects.
- B. Applicator: Approved by Sika in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements for EIFS.
- D. Field Samples
 1. Provide under provisions of Section [\[01 43 36\]](#) [\[01 43 39\]](#).
 2. Construct one field sample panel for each color and texture, [\[x\]](#) [\[meters\]](#) [\[feet\]](#) in size of system materials illustrating method of attachment, surface finish color and texture.
 3. Prepare each sample panel using the same tools and techniques to be used for the actual application.
 4. Locate sample panel where directed.
 5. Accepted sample panel [\[may\]](#) [\[may not\]](#) remain as part of the work.
 6. Field samples shall be comprised of all wall assembly components including substrate, air/water-resistive barrier, insulation board, base coat, reinforcing mesh, primer (if specified), finish coat, and typical sealant/flashing conditions.
- E. Testing:
 1. General Air/Water-Resistive Barrier Minimum Performance:

TEST	METHOD	CRITERIA	RESULTS
Water-resistive barrier coatings used under EIFS	ASTM E2570		Meets all performance requirements
Air Leakage of Air Barrier Assemblies	ASTM E2357	0.2 l/(s.m ²) @75 Pa (0.04 cfm/ft ² @ 1.57 psf)	0.0007 l/s.m ² (0.0001 cfm/ft ²) @ 75 Pa (1.57 psf) positive / post conditioning 0.0014 l/s.m ² (0.0003 cfm/ft ²) @ 75 Pa (1.57 psf) negative / post conditioning
Air Permeance of Building Materials	ASTM E2178	0.02 l/(s.m ²) @75 Pa (0.004 cfm/ft ² @ 1.57 psf)	0.0049 l/s.m ² @ 75 Pa (0.00098 cfm/ft ² @ 1.57 psf)
Rate of Air Leakage	ASTM E283		0.0185 l/s.m ² @ 75 Pa (0.0037 cfm/ft ² @ 1.57 psf)
Water Vapor Transmission	ASTM E96	Report value	Senershield-R - 18 Perms (grains/Hr. in Hg. ft ²) @ 10 mils wet film thickness Senershield-RS 18 Perms (grains/Hr. in Hg. ft ²) @ 12 mils wet film thickness Senershield-R/RS - 14 Perms (grains/Hr. in Hg. ft ²) @ 20 mils wet film thickness Senershield-VB - 0.09 Perms (grains/Hr. in Hg. ft ²) @ 26 mils wet film thickness
Pull-Off Strength of Coatings	ASTM D4541	Min. 110 kPa (15.9 psi) or substrate failure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood; pvc and galvanized flashing
Nail Sealability (without Sheathing Fabric)	ASTM D1970	No water penetration at galvanized roofing nail penetration under 127 mm (5") head of water after 3 days at 4° C (40° F)	Pass
Surface Burning	ASTM E84	Flame Spread < 25 Smoke Development < 450	Meets Class A: Flame spread =15 Smoke developed = 95

Senergy Channeled Adhesive CI Design Wall System

2. Air/Water-Resistive Barrier ICC-ES AC-212:

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing: 1. Structural 2. Racking 3. Restrained Environmental Conditioning 4. Water Penetration	1. ASTM E 1233 Procedure A 2. ASTM E 72 3. ICC-ES AC-212 4. ASTM E 331	No cracking at joints or interface of flashing No water penetration after 15 min @ 137 Pa (2.86 psf)	Pass - Tested over OSB and gypsum sheathing No water penetration after 90 min @ 299 Pa (6.24 psf)
Sequential Testing: 1. UV Light Exposure 2. Accelerated Aging 3. Hydrostatic Pressure Test	1. ICC-ES AC-212 2. ICC-ES AC-212 3. AATCC 127-1985	No cracking or bond failure to substrate No water penetration after 21.7 in (550 mm) water for 5 hours	Pass
Freeze-Thaw	ASTM E 2485 (Method B)	No sign of deleterious effects after 10 cycles	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Water Resistance	ASTM D2247	No deleterious effects after 14 day exposure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Tensile Bond	ASTM C 297	Minimum 103 kPa (15 psi)	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood, CMU; pvc and galvanized flashing
Tensile Bond (after freeze-thaw)	ASTM C 297	Minimum 103 kPa (15 psi) avg; no failure after 10 cycles freeze-thaw	Pass

3. Air/Water-Resistance Barrier ICC-ES AC 148:

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing: 1. UV Light Exposure 2. Accelerated Aging 3. Hydrostatic Pressure Test	1. ICC-ES AC 148 2. ICC-ES AC 148 3. AATCC 127-1985	No cracking or bond failure to substrate No water penetration after 21.7 in (550 mm) water for 5 hours	Pass
Peel Adhesion	ASTM D 3330 Method F	After UV Exposure After Accelerated Aging After Elevated Temperature Exposure After Water Immersion	Pass - tested over ASTM C1177 glass-mat sheathing, OSB, plywood, PVC and uncoated aluminum
Nail Sealability after Thermal Cycling	ASTM D 1970 (Modified), AAMA 711	No water penetration at galvanized roofing nail penetration under 31 mm (1.2") head of water after 24 hours at 4° C (40° F)	Pass
Tensile Strength after UV Exposure	ASTM D 5034, AAMA 711	Minimum 0.5 N/mm (2.9 lbs./in)	Pass
Cold Temperature Pliability	ASTM D 1970, AAMA 711	No cracking after bending around a 25 mm (1") mandrel after 2-hour exposure to -18° C (0° F)	Pass
Resistance to Peeling	AAMA 711	No signs of distress or failure after 24 hours of exposure at room temperature, 50° C (122° F), 65° C (149° F), 80° C (176° F)	Pass

4. Channeled Adhesive CI Design Wall System and Component Performance:

TEST	METHOD	CRITERIA	RESULTS
EIFS and EIFS with Drainage	ASTM E2568 and ICC-ES AC 235		Meets all performance requirements
Drainage Efficiency	ASTM E2273	90% Minimum	98.7% - Senersshield-R/RS/VB
Transverse Wind-load	ASTM E330	Steel stud framing (20 gauge) 16"o.c., 1/2" gypsum sheathing, 4" SHEATHING FABRIC over sheathing joints, SENERSHIELD-	Average ultimate loads ¹ : - 3126 Pa (- 65 psf) + 2633 Pa (+ 55 psf) not taken to failure

Senergy Channeled Adhesive CI Design Wall System

		R, Senergy Adhesive, 1" expanded polystyrene insulation board, Senergy Base Coat, FLEXGUARD 4 REINFORCING MESH, Senergy Finish.	
Transverse Wind-load	ASTM E330	Wood assembly (2' x 4') 16"o.c., 7/16" Exposure 1 OSB, 4" SHEATHING FABRIC over sheathing joints, SENERSHIELD-R, Senergy Adhesive, 1" expanded polystyrene insulation board, Senergy Base Coat, FLEXGUARD 4 Reinforcing Mesh, Senergy Finish.	Average ultimate loads ¹ : - 8379 Pa (- 175 psf) + 3591 Pa (+ 75 psf) not taken to failure
Tensile Bond	ASTM C297/E2134	Minimum 103 kPa (15 psi)	Pass
Water Penetration	ASTM E 331	No water penetration after 15 minutes @ 137 Pa (2.86 psf)	Pass
Radiant Heat Exposure	NFPA 268	No ignition at 20 minutes	Met test criteria with 12" thick EPS insulation.
Fire Endurance	ASTM E119	Maintain fire resistance of existing rated assembly	1-hour rating with maximum 4" thick EPS insulation
Intermediate Scale Multi-story Fire Test	NFPA 285 / UBC Standard 26-9	1. Resist flame propagation over the exterior surface 2. Resist vertical spread of flame within combustible core/component of panel from one story to the next 3. Resist vertical spread of flame over the interior surface from one story to the next 4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces	Met test criteria with 12" thick EPS insulation.
Surface Burning	ASTM E84 / UL 723	Flame spread < 25 Smoke developed < 450	All components of the system meet Class A performance (FS < 25; SD < 450)
Abrasion Resistance	ASTM D968	No Cracking or loss of film integrity at 528 qt. (500L) of sand	Finish Coat not worn through after 686 liters of falling sand
Accelerated Weathering	ASTM G 153 (formerly G23)	No deleterious effects after 2000 hours.	Pass
Accelerated Weathering	ASTM G 154 (formerly G53)	No deleterious effects after 2000 hours.	Pass - No deleterious effects after 7500 hours.
Freeze-Thaw	ASTM C67, E2485 Method A	No deleterious effects after 60 cycles	Pass
Mildew Resistance	Mil Std 810B Method 508	No fungus growth after 28 days	Pass
Salt Fog Resistance	ASTM B117	No deleterious effects after 300 hours	Pass
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass

¹ No failure in the Senergy materials; failure in framing and/or sheathing connections

5. Reinforcing Mesh Testing and Impact Resistance

TEST	METHOD	CRITERIA	RESULTS
Alkali Resistance of Reinforcing Mesh	ASTM E 2098	Greater than 120 pli (21 dN/CM) retained tensile strength	Pass (all mesh)
Date County Impact Test FLEXGUARD 4	Protocol 201	Large & Small Missile	Passed with various wall assemblies
	ASTM E2486 (formerly EIMA 101.86)	25-49 inch-lbs. (2.8-5.6 j)	Pass
INTERMEDIATE 6	ASTM E2486 (formerly EIMA 101.86)	25-49 inch-lbs. (2.8-5.6 j)	Pass
INTERMEDIATE 12	ASTM E2486 (formerly EIMA 101.86)	50-89 inch-lbs. (5.7-10.1 j)	Pass
INTERMEDIATE 12 & FLEXGUARD 4	ASTM E2486 (formerly EIMA 101.86)	90-150 inch-lbs. (10.2-17.0 j)	Pass

Senergy Channeled Adhesive CI Design Wall System

STRONG 15 & FLEXGUARD 4	ASTM E2486 (formerly EIMA 101.86)	150 inch-lbs. (17 j)	Pass
ULTRA HI 20 & FLEXGUARD 4	ASTM E2486 (formerly EIMA 101.86)	150 inch-lbs. (17 j)	Pass

6. SikaWall Rapid Bond Performance:

TEST	METHOD	CRITERIA	RESULTS
Compressive strength	ASTM D1621	Report Value	8.6 psi (59.29 kPa) Parallel
Tensile Strength	ASTM D1623	Report Value	25 psi (172.37 kPa)
Tensile adhesion strength	ASTM C-297	> 15 psi (103 kPa)	Pass
Surface burning characteristics	ASTM E-84/UL 723	< 25 Flame Spread Index < 450 Smoke Developed	0 50

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products under provisions of Section [01 65 00] [01 66 00] [].
- B. Deliver Sika materials in original unopened packages with manufacturer's labels intact.
- C. Protect Sika materials during transportation and installation to avoid physical damage.
- D. Store Sika materials in a cool, dry place protected from freezing. Store at no less than 40°F/4°C (50°F/10°C GRANITE & STONE finish).
- E. Store MAXFLASH at a minimum of 40°F/4°C. In cold weather, keep containers at room temperature for at least 24 hours before using.
- F. Store insulation boards flat and protected from direct sunlight and extreme heat.
- G. Store Reinforcing Mesh, SHEATHING FABRIC and FLASH SEAL NP flexible flashing in a cool, dry place protected from exposure to moisture.
- H. Store RAPID BOND upright in a dry area at temperatures between 45-95°F (7-35°C). Excessive heat can cause premature aging of components, resulting in a shorter shelf life.

1.07 PROJECT/SITE CONDITIONS

- A. Do not apply Sika materials in ambient temperatures below 40°F/4°C (50°F/10°C for GRANITE & STONE Finish). Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F/4°C (50°F/10°C for GRANITE & STONE Finish) prevail. Do not apply Sika materials in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
- B. Do not apply materials to frozen surfaces.
- C. Maintain ambient temperature at or above 40°F/4°C (50°F/10°C for GRANITE & STONE Finish) during and at least 24 hours after material installation and until dry.
- D. Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.

1.08 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Channeled Adhesive CI Design Wall System with related work of other sections.
- B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.

1.09 WARRANTY

- A. Provide a Sika standard warranty for Channeled Adhesive CI Design Wall System installations under provisions of Section [01 70 00].
- B. Comply with Sika Facades notification procedures to assure qualification for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Senergy Channeled Adhesive CI Design Wall System (Class PB System) manufactured by Sika

Senergy Channeled Adhesive CI Design Wall System

Corporation US.

2.02 MATERIALS

NOTE TO SPECIFIER: Items in blue/underlined indicate a system option or choice of options. Throughout the specification, delete those which are not required or utilized. Contact Sika Facades' Technical Service Department for further assistance.

A. Air/Water-Resistive Barrier Components:

1. Air/Water-Resistive Barrier: **(Required, Select a, b or c)**
 - a. SENERSHIELD-R: A one-component fluid-applied vapor permeable air/water-resistive barrier.
 - b. SENERSHIELD-RS: A one-component fluid-applied vapor permeable air/water-resistive barrier for use with airless spray equipment.
 - c. SENERSHIELD-VB: A one-component fluid-applied vapor impermeable air/water-resistive barrier.
2. Rough Opening and Joint Treatment: **(Required, Select a or b)**
 - a. SIKAWALL SHEATHING FABRIC: A spun-bonded non-woven reinforced polyester web for use with Senergy fluid applied air/weather-resistive barriers.
 - b. SIKAWALL MAXFLASH: A one-component elastomeric material for use as a flexible flashing membrane.
3. SIKAWALL FLASH SEAL NP Transitional Membrane / Expansion Joint Flashing: A 32-mil thick self-adhering and self-sealing composite membrane of polyester fabric and butyl adhesive. Compatible with Senergy liquid air/weather-resistive barriers.

B. **SIKAWALL RAPID BOND SPRAY FOAM ADHESIVE:** A one-component, low-expansion polyurethane spray foam adhesive for rigid insulation boards.

C. Adhesives/Base Coats: **(Required, Select One or More)**

1. ALPHA Base Coat: A 100% acrylic base coat, field-mixed with Portland cement. It has a creamy texture that is easily spread.
2. ALPHA DRY Base Coat: A dry-mix polymer adhesive and base coat containing Portland cement and requiring only water for mixing.
3. XTRA-STOP Base Coat: A 100% acrylic-based, water-resistant base coat, field-mixed with Portland cement.
4. ALPHA GENIE Base Coat: A 100% acrylic, fiber-reinforced base coat, adhesive and leveler that is field-mixed with Portland cement.

NOTE TO SPECIFIER: Portland cement is not required if ALPHA DRY base coat is specified.

D. **Portland cement:** Conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.

E. **Water:** Clean and potable without foreign matter.

F. **Insulation Board:** Expanded polystyrene; ASTM C578, Type I; Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723.

1. Minimum density 0.90 lb./ft³; K= 0.24 per inch (6.09 per mm).
2. Minimum thickness as indicated on drawings [minimum 3/4" (19 mm)].
3. Air-dried (aged) six weeks, or equivalent, prior to installation.
4. Edges: square within 1/32" per foot (0.8 mm per meter).
5. Thickness: tolerance of plus or minus 1/16" (1.6 mm).
6. Size: 2' x 4' (0.6 m x 1.22 m).
7. Length and width: tolerance of plus or minus 1/16" (1.6 mm).

G. **Reinforcing Mesh:** Balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Senergy Base Coats. **(Required, Select One or More)**

1. FLEXGUARD 4: Standard weight, 4 oz.
2. SIKAWALL INTERMEDIATE 6: Standard/medium weight, 6 oz.
3. SIKAWALL INTERMEDIATE 12: Intermediate weight, 12 oz.
4. SIKAWALL STRONG 15: Heavy weight, 15 oz. used only in combination with FLEXGUARD 4 or INTERMEDIATE 6.
5. SIKAWALL ULTRA HI 20: Heavy weight, 20 oz. used only in combination with FLEXGUARD 4 or INTERMEDIATE 6.
6. SIKAWALL CORNER MESH: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.

H. **SIKAWALL COLOR ADVANCE (Optional):** A 100% acrylic-based coating. It is designed for spray-,

Senergy Channeled Adhesive CI Design Wall System

roller- or brush-application over EIFS with minimum change in finish texture or sheen.

I. SIKAWALL TINTED PRIMER (Optional): A 100% acrylic-based primer that helps alleviate shadowing and enhances the performance of the Senergy Wall Systems. Color to closely match the selected Senergy Finish Coat.

J. Finish Coat: (Required, Select One or More Finishes and Textures)

1. SENERFLEX Finish: 100% acrylic polymer finishes with advanced technology to improve long-term performance and dirt pick-up resistance; air cured, compatible with base coat; Senergy finish color [] as selected; finish texture:
 - a. CLASSIC: Has a medium "worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - b. FINE: utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. TEXTURE: can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - d. SAHARA: Provides a uniform, "pebble" appearance.
2. SENERFLEX TERSUS Finish: Modified acrylic-based finish with water repellent properties, compatible with base coat; Senergy Finish color [] as selected; finish texture:
 - a. CLASSIC: Has a medium "worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - b. FINE: utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. TEXTURE: can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - d. SAHARA: Provides a uniform, "pebble" appearance.
3. SikaWall Specialty Finishes: 100% acrylic polymer finishes that can be hand-troweled to simulate stone or create a time-honored, mottled tone-on-tone look that achieves a soft and weathered patina over time.
 - a. SIKAWALL ENCAUSTO VERONA: Utilizes uniformly sized aggregate to achieve a free-formed, flat texture. It can be used to achieve a mottled look and unlimited tone on tone designs by combining multiple colors.
 - b. SIKAWALL METALLIC: Has a pearlescent appearance. It utilizes uniformly sized aggregates for a uniform fine texture.
 - c. SIKAWALL GRANITE & STONE: a factory-mixed, reflective stone finish consisting of colored aggregate and large black mica flakes in a 100% acrylic transparent binder that provides a classic granite or marble-like textured finished appearance.
4. SIKAWALL CHROMA Finish: 100% acrylic polymer-based finish with integrated high performance colorants for superior fade resistance, compatible with base coat; Senergy Finish color [] as selected; finish texture:
 - a. F1.0: Utilizes uniformly sized aggregates for a uniformly fine texture.
 - b. M1.5: Provides a uniform "pebble" appearance.
 - c. R1.5: Has a medium "worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal.

2.03 ACCESSORIES

A. Window/Door Drip Edge: Rigid polyvinyl chloride (PVC), UV resistant for exterior use, with a drip edge, as furnished by Plastic Components, Inc. or equal. Accessories shall conform to ASTM D1784-97, C1063-99 and D4216-99.

PART 3 EXECUTION

3.01 EXAMINATION

A. Site Conditions: Verify project site conditions under provisions of Section [01 00 00].

B. Walls:

1. Substrates:
 - a. Acceptable substrates are: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including, Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing. DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Huber Zip

Senergy Channeled Adhesive CI Design Wall System

- (sheathing only); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB. Consult the Sika Facades' Technical Services Department for all other applications.
- b. Wall sheathing must be securely fastened per applicable building code and sheathing manufacturer's requirements.
 - c. Examine surfaces to receive Channeled Adhesive CI Design Wall System and verify that substrate and adjacent materials are dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 1/4" in 10' (6.4 mm in 3 m).
2. Flashings:
- a. All flashings are by others and must be installed in accordance with specific manufacturer's requirements. Where appropriate, end-dams must be provided.
 - b. Openings must be flashed prior to window/door, HVAC, etc. installation. Refer to Senergy Senershield published product data sheet and details for further information.
 - c. Windows and openings shall be flashed according to design and Building Code Requirements.
 - d. Individual windows that are ganged to make multiple units require continuous head flashing and the joints between the units must be fully sealed.
3. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
4. Kick-out flashing: Kick-out flashing must be installed leak-proof and angled (min 100°) to allow for proper drainage and water diversion.
- C. Do not proceed until all unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage and staining during application of Channeled Adhesive CI Design Wall System materials.
- B. Finish: Protect finished work at end of each day to prevent water penetration.
- C. Substrate preparation: Prepare substrates in accordance with Senergy instructions.

3.03 MIXING

General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

NOTE TO SPECIFIER: Keep only the products in this section that were selected in Section 2.02. Delete those not to be utilized.

A. Air/Water-Resistive Barriers:

1. SENERSHIELD-R/RS/VB: Mix with a clean, rust-free paddle and drill until thoroughly blended. Do not add water.

B. SIKAWALL RAPID BOND: Reference published product data sheet for complete mixing and dispensing instructions.

C. Base Coat:

1. ALPHA Base Coat: Mix base coat with a clean, rust-free paddle and drill until thoroughly blended, before adding Portland cement. Mix one-part (by weight) Portland cement with one-part base coat. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment. Clean, potable water may be added to adjust workability.
2. XTRA-STOP Base Coat: Mix base coat with a clean, rust-free paddle and drill until thoroughly blended, before adding Portland cement. Mix one-part (by weight) Portland cement with one-part base coat. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment. Clean, potable water may be added to adjust workability.
3. ALPHA GENIE Base Coat: Mix base coat with a clean, rust-free paddle and drill until thoroughly blended, before adding Portland cement. Mix one-part (by weight) Portland cement with one-part base coat. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment. Clean, potable water may be added to adjust workability.
4. ALPHA DRY Base Coat: Mix and prepare each bag in a 5-gallon (19-liter) pail. Fill the container with approximately 1.5-gallons (5.6-liters) of clean, potable water. Add base coat in small increments, mixing after each additional increment. Mix Base Coat and water with a clean, rust-free

Senergy Channeled Adhesive CI Design Wall System

paddle and drill until thoroughly blended. Additional ALPHA DRY base coat or water may be added to adjust workability.

D. SIKAWALL COLOR ADVANCE: Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.

E. SIKAWALL TINTED PRIMER: Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.

F. Finishes:

1. SENERFLEX, SENERFLEX TERSUS, CHROMA, and ENCAUSTO VERONA Finish: Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.
2. SIKAWALL GRANITE & STONE Finish: Gently mix the contents of the pail for 1 minute using a low RPM ½" drill equipped with a mixing paddle such as a Demand Twister or a Wind-Lock B-MEW, B-M1 or B-M9.

3.04 APPLICATION

A. Accessories:

1. Attach Window/Door Drip Edge level and per manufacturer's instructions.

NOTE TO SPECIFIER: Keep only the products in this section that were selected in Section 2.02. Delete those not to be utilized.

B. Air/Water-Resistive Barrier:

1. All sheathing joints and windows/openings must be protected, and the air/water-resistive barrier applied in accordance with the published Senershield product data sheet and details.
2. Substrate shall be dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than ¼" in 10' (6.4 mm in 3 m).
3. Unsatisfactory conditions shall be corrected before application of the Senergy air/water-resistive barriers.
4. Apply the SHEATHING FABRIC and Senergy air/water-resistive barrier in accordance with the Senergy air/water-resistive barrier product bulletin.
5. Apply the MAXFLASH in accordance with the MAXFLASH product bulletin.
6. Installed materials shall be checked before continuing system application.
7. Ensure SHEATHING FABRIC Senergy air/water-resistive barrier or MAXFLASH overlaps the top flange of the flashing flange.
8. Installed materials shall be checked before continuing system application.

C. Insulation Board with Adhesive/Base Coat:

1. Vertical surfaces: Begin at base of wall with firm, temporary support or spacer.
2. Stagger joints horizontally in a running bond pattern offset a minimum of 6" (152 mm).
3. Pre-cut insulation board to fit openings and projections. Insulation board must be a single piece around corners of openings. Stagger vertical joints and corners. Stagger insulation and sheathing board joints. Offset insulation board joints from sheathing joints by a minimum of 16" (406 mm).
4. Apply mixed Senergy Base Coat to entire surface of insulation board using a stainless-steel trowel with 1/2"x 1/2" (13 mm x 13 mm) notches spaced 2" (50 mm) apart. Ribbons of adhesive must be applied parallel to the 2' (610 mm) dimension of the EPS insulation board to ensure they are vertical when the EPS insulation board is applied to the substrate.
5. Immediately set board into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not slide board into place. Do not allow base coat to dry prior to installing.
6. Abut all joints tightly and ensure overall flush level surface.
7. Fill 1/16" (1.6 mm) and larger gaps between insulation boards with slivers of insulation board.
8. Check adhesion periodically by removing a board prior to set. Properly installed insulation board will be difficult to remove, and Senergy Adhesive/Base Coat will be adhered to both the Senergy Air/Water-Resistive Barrier and the insulation board.
9. Allow application of insulation board to dry (normally 8 to 10 hours) prior to application of base coat/reinforcing mesh.
10. Rasp flush any irregularities of the insulation board greater than 1/16" (1.6 mm).

Senergy Channeled Adhesive CI Design Wall System

11. Install expansion joints and aesthetic grooves as indicated on drawings. Do not align aesthetic grooves with insulation board joints.

D. Insulation Board with SIKAWALL RAPID BOND:

1. Vertical surfaces: Begin at base of wall with firm, temporary support or spacer.
2. Stagger joints horizontally in a running bond pattern offset a minimum of 6" (152 mm).
3. Pre-cut insulation board to fit openings and projections. Insulation board must be a single piece around corners of openings. Stagger vertical joints and corners. Stagger insulation and sheathing board joints. Offset insulation board joints from sheathing joints by a minimum of 16" (406 mm).
4. Apply a ribbon to each end of the (2' x4') insulation board, parallel to the short dimension of the board. Position the end ribbons approximately 3/4" (19mm) from the end of the insulation board.
5. Apply six (6) more ribbons for a total of 8 to each 2'x4' (0.6m x 1.2m) insulation board, evenly spaced nominally 5"-6" (12.7cm-15cm) apart between the end ribbons. Start and stop adhesive ribbons approximately 1/2" (12.7mm) from the edge of the board.
6. Apply insulation board to prepared substrate when adhesive ribbons have tack and before the surface of ribbons begin to form a skin. Install the board using LIGHT but firm pressure, taking care not to over-compress the adhesive ribbons.

NOTE: The time between placing adhesive ribbons onto the insulation board, and the time the ribbons skin over is approximately 1-5 minutes.

7. Be precise with the initial placement of insulation boards. The adhesive sets rapidly and provides limited opportunity to adjust insulation board placement. Use a straight edge to lightly press boards to keep board joints flush. Board joint gaps up to 1/4" (6.4mm) can be filled with RAPID BOND, ensure any excess foam is rasped flush.
8. Rasp insulation boards after full cure of adhesive, typically after one hour in nominal conditions 70°F (21°C) and 50% relative humidity. Cooler temperatures and lower humidity will extend cure time. Do not rasp insulation boards until full cure has occurred.
9. Install expansion joints and aesthetic grooves as indicated on drawings. Do not align aesthetic grooves with insulation board joints.

E. Senergy Base Coat/Reinforcing Mesh:

1. Senergy base coat shall be applied to achieve reinforcing mesh embedment with no reinforcing mesh color visible.

NOTE TO SPECIFIER: Indicate on drawings the required locations of standard, medium, high or ultra-high impact reinforcing mesh.

F. SIKAWALL CORNER MESH:

1. Install at corners, prior to application of reinforcing mesh.
2. Apply mixed Senergy Base Coat to insulation board at outside corners using a stainless-steel trowel. Immediately place mesh against the wet base coat and embed into the base coat by troweling from the corner; butt edges and avoid wrinkles.
3. After base coat is dry and hard, apply a layer of FLEXGUARD 4, INTERMEDIATE 6 or 12 Reinforcing Mesh over the entire surface of the CORNER MESH in accordance with 3.04 F.

F. Standard Impact or Medium Impact Resistance Reinforcing Mesh: FLEXGUARD 4 INTERMEDIATE 6 and INTERMEDIATE 12

1. Install reinforcing mesh where indicated on drawings.
2. Apply mixed Senergy Base Coat to entire surface of insulation board with a stainless-steel trowel to embed the reinforcing mesh.
3. Immediately place Senergy Reinforcing Mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges. Lap reinforcing mesh 2 1/2" (64 mm) minimum at edges.
4. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
5. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
6. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours).

G. High Impact or Ultra High Impact Resistance Reinforcing Mesh: INTERMEDIATE 12, STRONG 15 and ULTRA HI 20

NOTE TO SPECIFIER: Where STRONG 15 or ULTRA HI 20 is specified, FLEXGUARD 4 or INTERMEDIATE 6 must be specified also.

Senergy Channeled Adhesive CI Design Wall System

1. Install Senergy Reinforcing Mesh where indicated on drawings.
2. Apply mixed Senergy Base Coat to the entire surface of insulation board with a stainless-steel trowel to embed the reinforcing mesh.
3. Immediately place reinforcing mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges.
4. Butt reinforcing mesh at all adjoining edges; do not use to backwrap or bend around corners.
5. Butt reinforcing mesh at adjoining edges of CORNER MESH.
6. Ensure reinforcing mesh is free of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
7. After base coat with embedded reinforcing mesh is dry and hard (normally 8 to 10 hours), apply a layer of FLEXGUARD 4 or INTERMEDIATE 6 Reinforcing Mesh over the entire surface in accordance with 3.04 F to achieve total nominal base coat/ reinforcing mesh thickness of 3/32" (2.4 mm).

H. SIKAWALL COLOR ADVANCE:

1. Apply material to the base coat/reinforcing mesh in sealant joints with a high-quality, latex-type paintbrush. Work material continuously until a uniform appearance is obtained. Allow to dry thoroughly (approximately 24 hours) prior to application of sealant primer and sealant.

I. SIKAWALL TINTED PRIMER:

1. Apply Primer to the base coat/reinforcing mesh with a sprayer, 3/8" (10 mm) nap roller, or good quality latex paint brush at a rate of approximately 150-250 ft² per gallon (3.6–6.1m² per liter). Primer shall be dry to the touch before proceeding to the Senergy Finish coat application.

J. Finish Coat: SENERFLEX, SENERFLEX TERSUS and CHROMA.

1. Apply finish directly to the base coat with a clean, stainless steel trowel.
2. Apply and level finish during the same operation to a minimum obtainable thickness consistent with uniform coverage. Maintain a wet edge on finish by applying and texturing continually over the wall surface.
3. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Float finish to achieve final texture.

K. SIKAWALL GRANITE & STONE Finish:

1. Apply SIKAWALL TINTED PRIMER to the substrate in accordance with the current product bulletin. Primer shall be of the corresponding color for the selected finish color. Allow the primer to dry to the touch before proceeding with finish application.
2. Apply a tight coat of finish with a clean, stainless steel trowel. Maintain a wet edge on finish by applying and leveling continually over the wall surface.
3. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of finish.
4. Use a stainless-steel trowel and apply the second coat of finish. Achieve final texture using circular motions. Total thickness of finish may be between 1/16" (1.6 mm) and 1/8" (3.2 mm).

3.05 CLEANING

- A. Clean work under provisions of Section [01 74 00] [].
- B. Clean adjacent surfaces and remove excess material, droppings, and debris.

3.06 PROTECTION

- A. Protect materials from rain, snow and frost for 48-72 hours following application.
- B. Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.
- C. Protect installed construction under provisions of Section [01 76 00] [].

END OF SECTION

Senergy Channeled Adhesive CI Design Wall System

WARRANTY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com/senergy or by calling SIKA Facades' Technical Service Department at 1-800-226-2424. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/>.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ
07071 USA
+1 201 933 8800
usa.sika.com/senergy

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BUILDING TRUST





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Channeled AdhesiveCI Design

A Systems Approach
to the Building Enclosure

Typical Details

BUILDING TRUST



Channeled Adhesive CI Design Details

Typical Details

Table of Contents

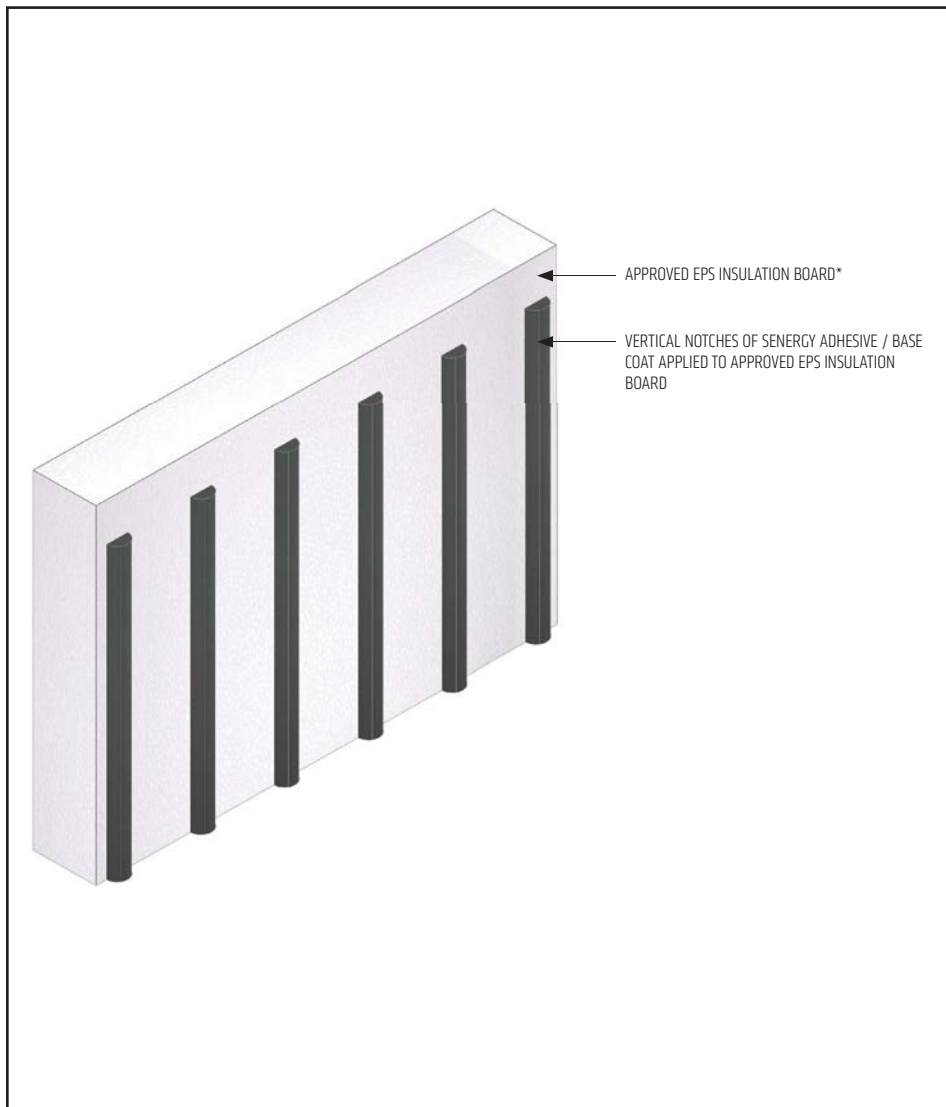
- | | |
|---|--------------------------------------|
| 1. Channeled Adhesive Pattern | 21. Window Head with Sealant End Dam |
| 2. Application over Framing | 22. Window Jamb (Flush) |
| 3. Application over CMU | 23. Window Sill (Flush) |
| 4. Application over Brick | 24. Window Head (Recessed) |
| 5. Application with High Impact Reinforcing Mesh | 25. Window Jamb (Recessed) |
| 6. Corner Mesh Application With Flexguard 4, Intermediate 6 or 12 | 26. Window Sill (Recessed) |
| 7. Aesthetic Reveal | 27. Flanged Window Head |
| 8. Decorative Shape Application | 28. Flanged Window Jamb |
| 9. Expansion Joint | 29. Flanged Window Sill |
| 10. Expansion Joint at Change In Substrate | 30. Fascia to Direct Applied Soffit |
| 11. Expansion Joint at Floorline | 31. Fascia to Insulated Soffit |
| 12. Drainage at Floorline | 32. Pipe Penetration |
| 13. Abutment To Brick With Flashing | 33. Light Fixture |
| 14. Typical Abutment To Brick With Continuous Drainage Plane | 34. Core Mounted Railing Attachment |
| 15. Termination at Foundation | 35. Raining Attachment |
| 16. Termination at Foundation (Flush) | 36. Sign Attachment |
| 17. Termination at Balcony Deck | 37. Coping |
| 18. Window Head (Flush) | 38. EPS Parapet Cap |
| 19. Window Head with Weep Tubes (Flush) | 39. Termination to Flat Roof |
| 20. Window Head with Diverter Track (Flush) | 40. Kick-Out Flashing at Sloped Roof |
| | 41. Roof Edge Flashing |

Notes:

- **The details within are latest recommendations and are represent in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.**
- **Install Sika materials in accordance with current installation instructions.**
- **Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.**

Channeled Adhesive CI Design

TYPICAL CHANNELED ADHESIVE PATTERN



CAD-01 2401

(*NOTE: BY OTHERS)

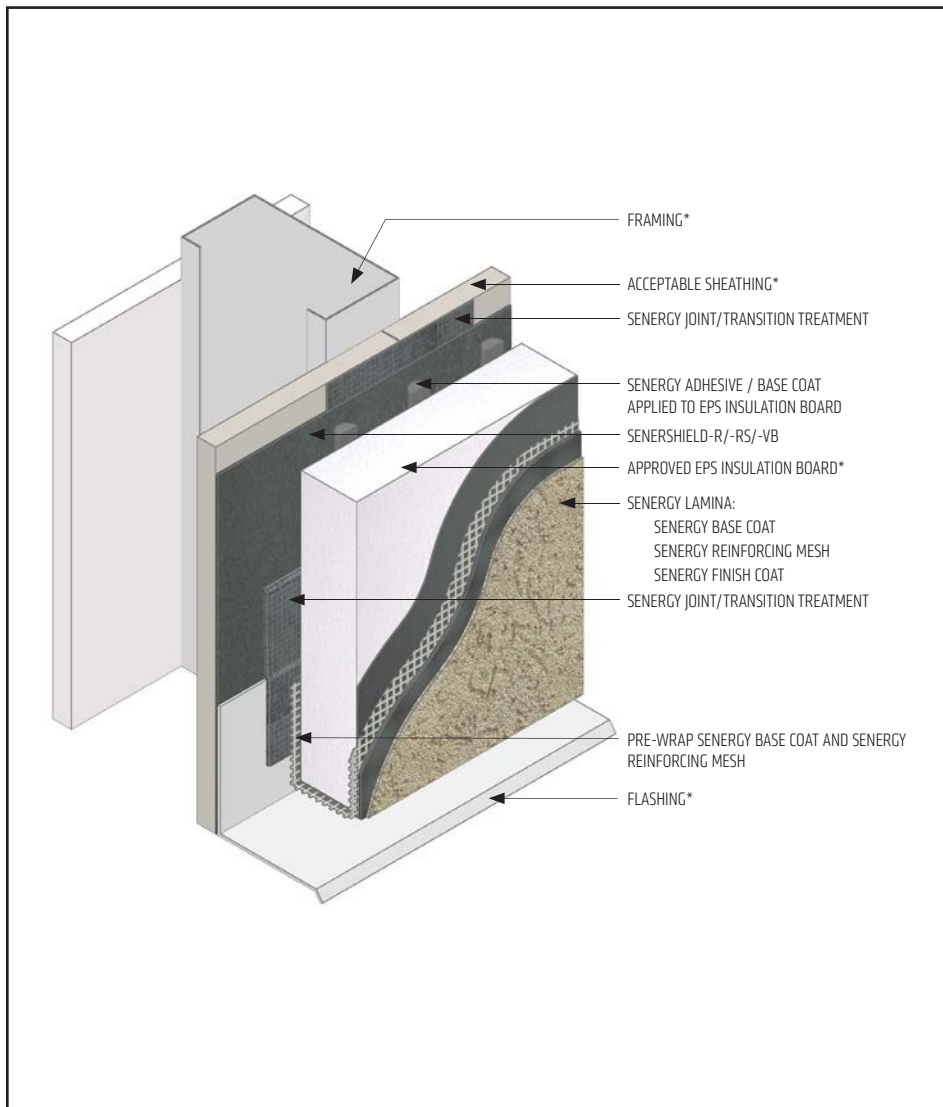
- Apply mixed Senergy Adhesive/Base Coat to entire surface of insulation board using a stainless steel trowel with 1/2" x 1/2" (13 mm x 13 mm) notches spaced 2" (50 mm) apart. Ribbons of adhesive must be applied parallel to the 2' (610 mm) dimension of the EPS insulation board to ensure they are vertical when the EPS insulation board is applied to the substrate.
- Set EPS insulation board into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not slide board into place.

The details within are latest recommendations and are represent in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

Channeled Adhesive CI Design

TYPICAL APPLICATION OVER FRAMING



CAD-02 2401

(*NOTE: BY OTHERS)

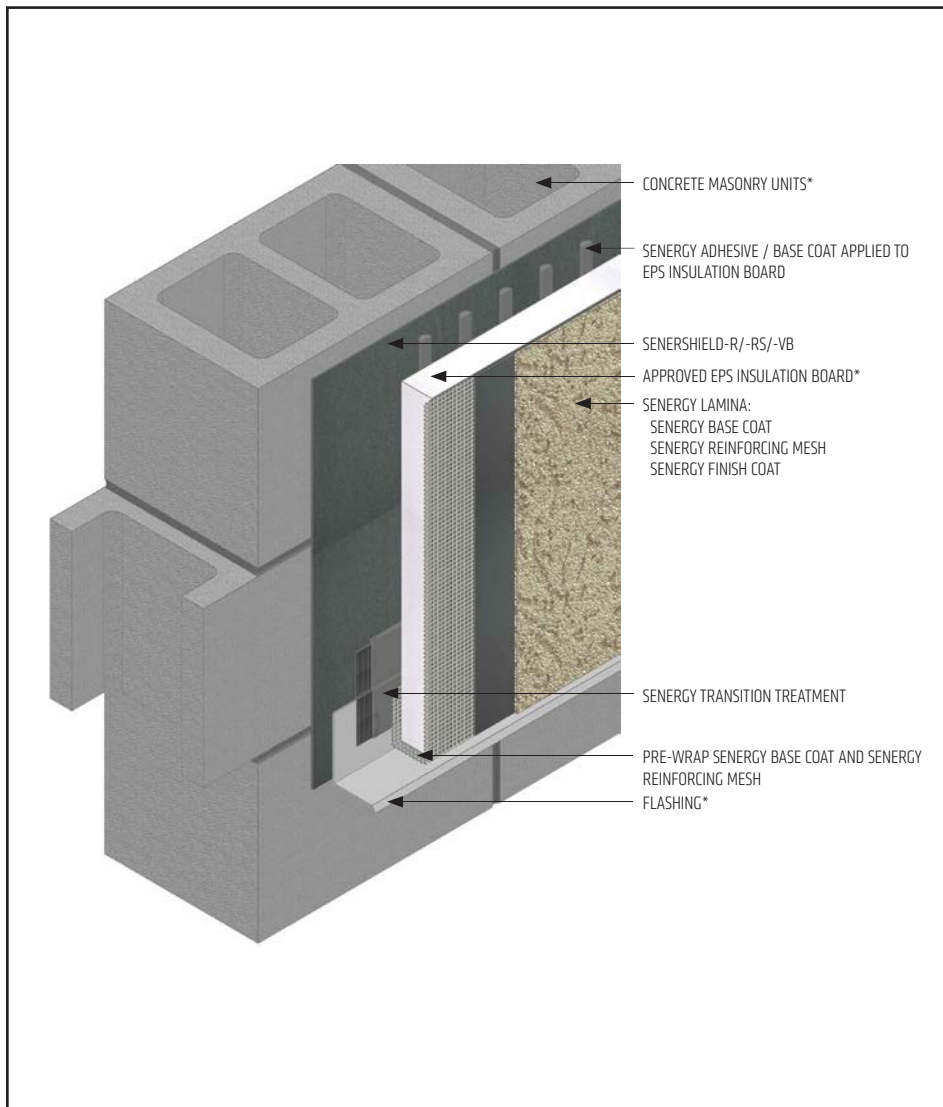
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination.
- Senergy Joint/Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

The details within are latest recommendations and are represent in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

Channeled Adhesive CI Design

TYPICAL APPLICATION OVER CMU



CAD-03 2401

(*NOTE: BY OTHERS)

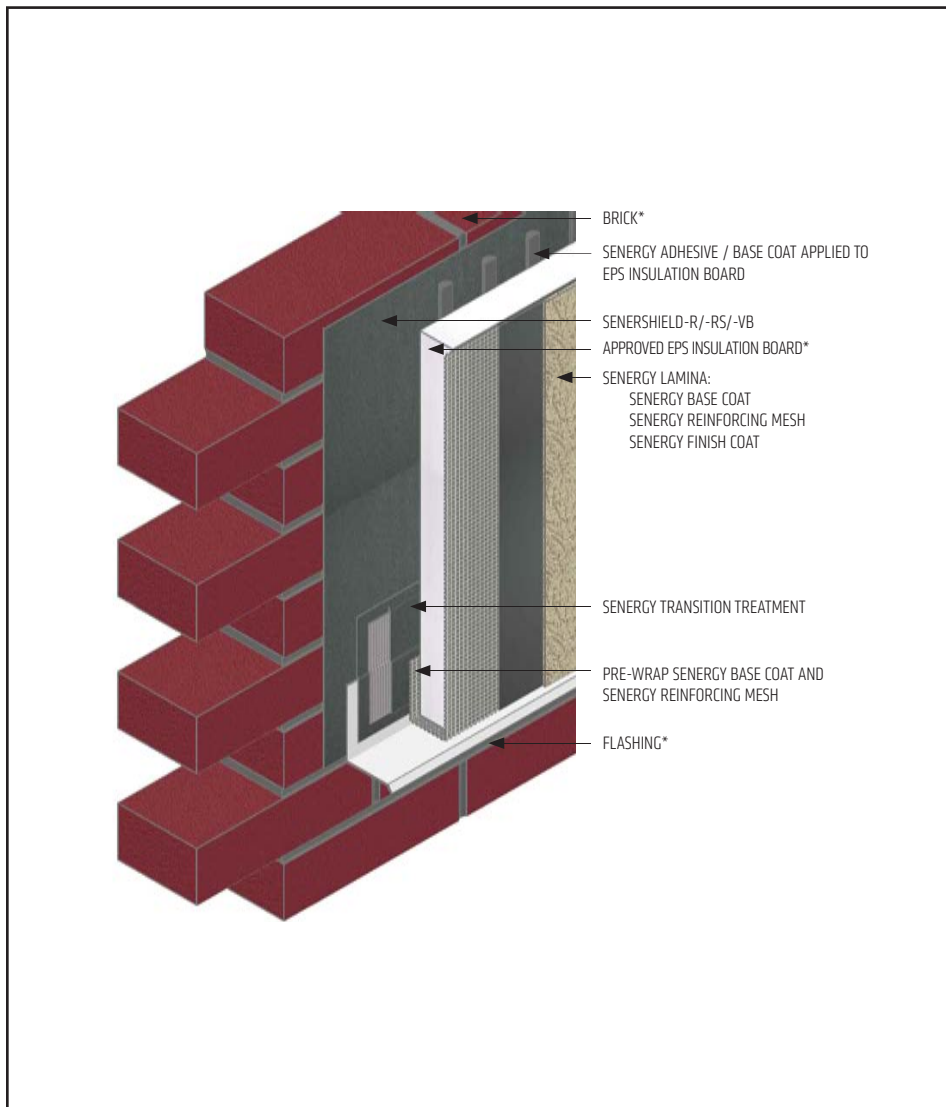
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

The details within are latest recommendations and are represent in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

Channeled Adhesive CI Design

TYPICAL APPLICATION OVER BRICK



CAD-04 2401

(*NOTE: BY OTHERS)

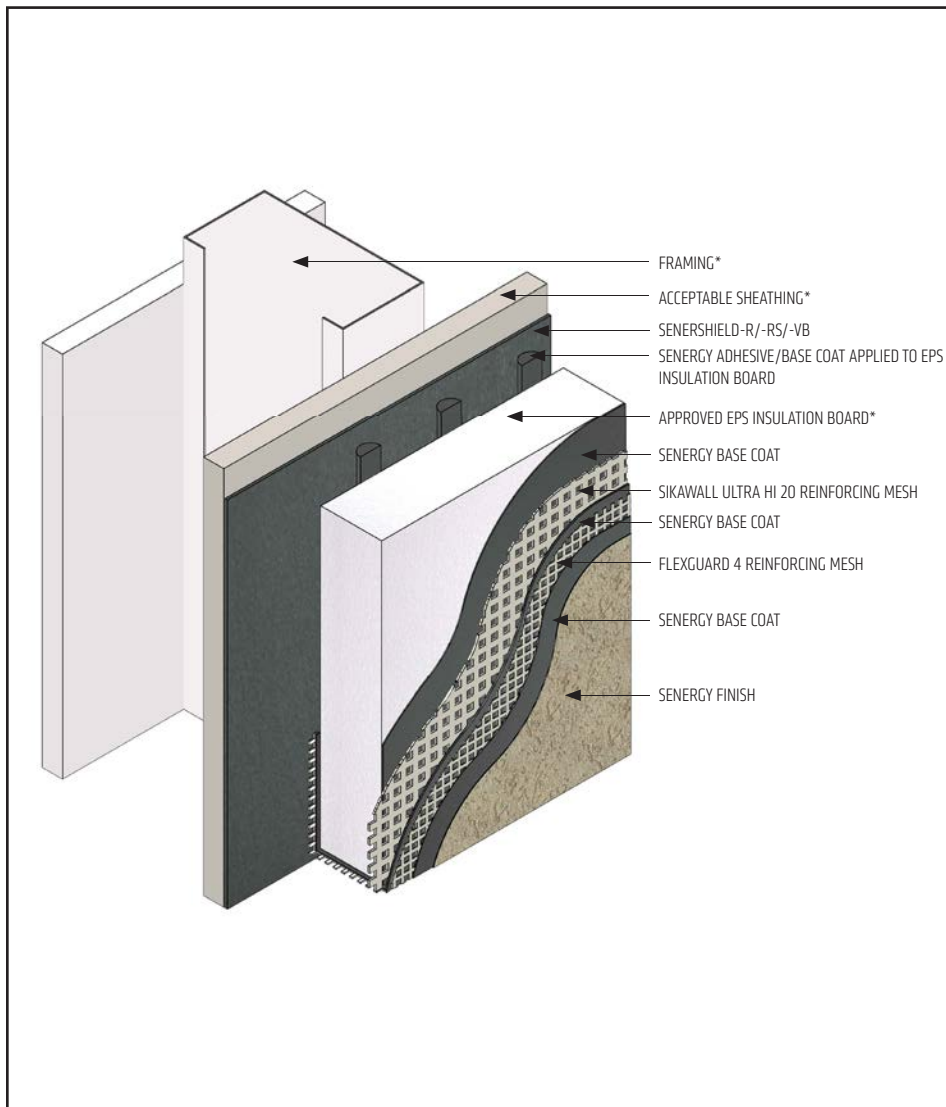
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

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Channeled Adhesive CI Design

TYPICAL APPLICATION WITH HIGH IMPACT REINFORCING MESH



CAD-05 2401

(*NOTE: BY OTHERS)

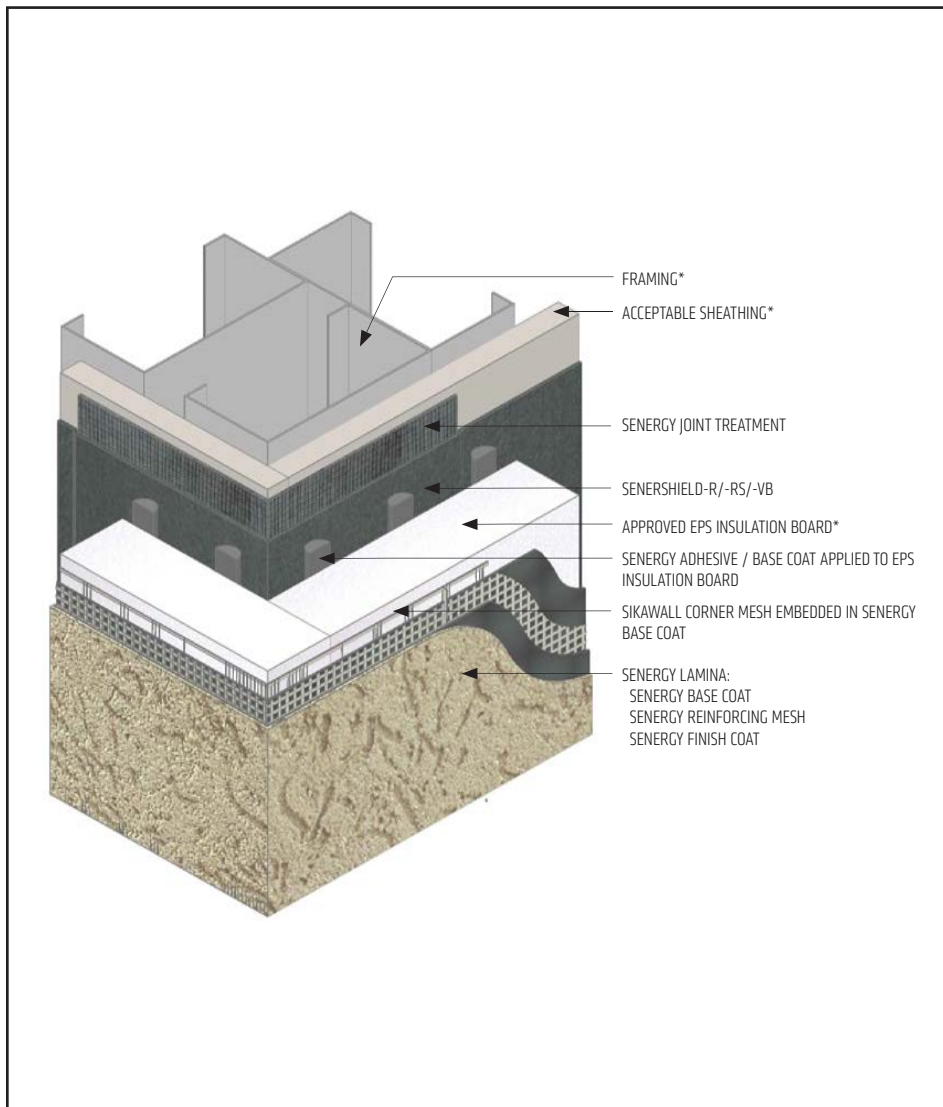
- Use of SikaWall Ultra HI 20 reinforcing mesh is recommend at the ground floor in high traffic areas and in areas exposed to potential for high impact.
- Butt SikaWall Ultra HI 20 reinforcing mesh at all adjoining edges including corners, do not use to backwrap or bend around corners.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- SikaWall Ultra HI 20 and Flexguard 4 reinforcing mesh are embedded in two separate layers of base coat. Allow the first base coat layer with Ultra HI 20 Reinforcing Mesh to dry prior to application of the second base coat layer with Flexguard 4 Reinforcing Mesh.

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Channeled Adhesive CI Design

TYPICAL CORNER MESH APPLICATION WITH FLEXGUARD 4, INTERMEDIATE 6 OR 12



CAD-06 2401

(*NOTE: BY OTHERS)

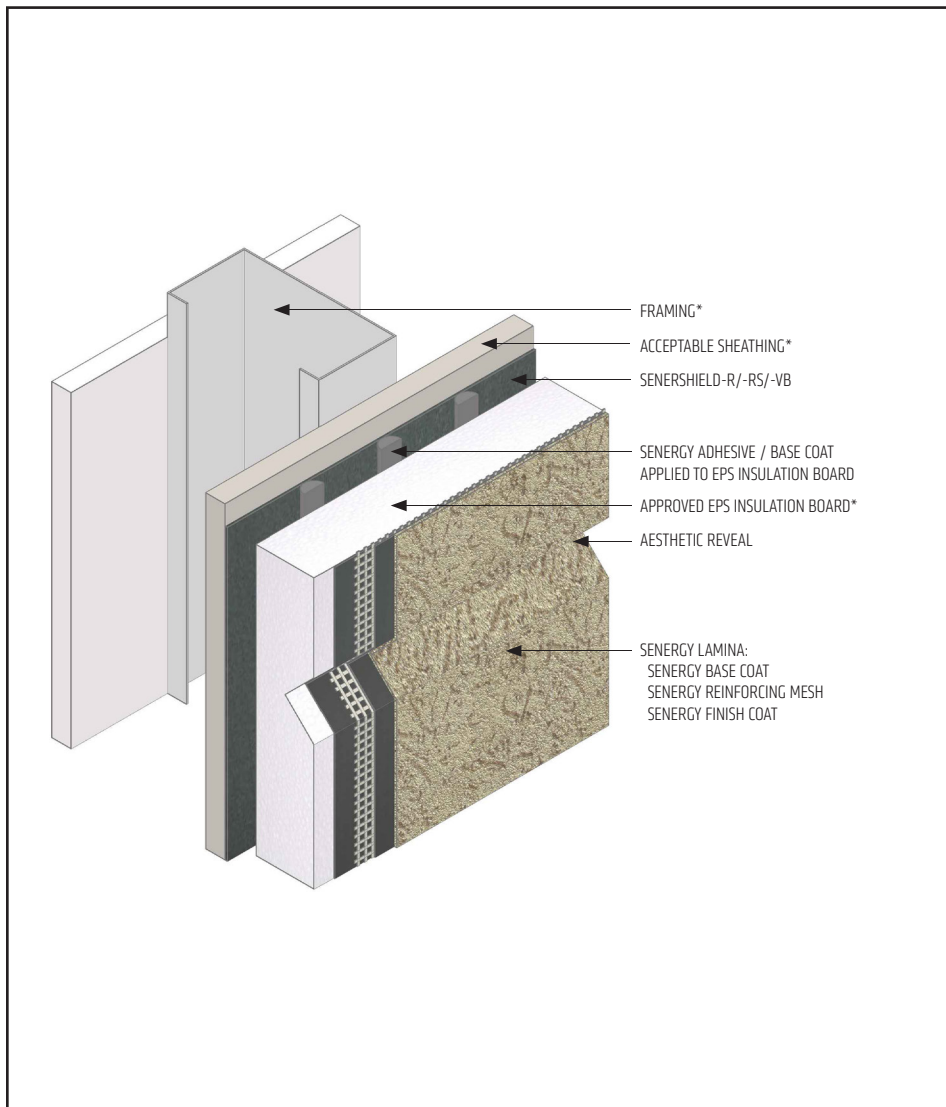
- Ensure Flexguard 4, SikaWall Intermediate 6 or SikaWall Intermediate 12 Reinforcing Mesh is lapped a minimum of 8" (203 mm) around corners.
- SikaWall Corner Mesh on outside corner can be replaced, with Flexguard 4, SikaWall Intermediate 6 or SikaWall Intermediate 12, extended a minimum of 8" (203 mm) around corner from both sides (creating double layer of mesh at corner).
- Senergy Joint Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

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Channeled Adhesive CI Design

TYPICAL AESTHETIC REVEAL



CAD-07 2401

(*NOTE: BY OTHERS)

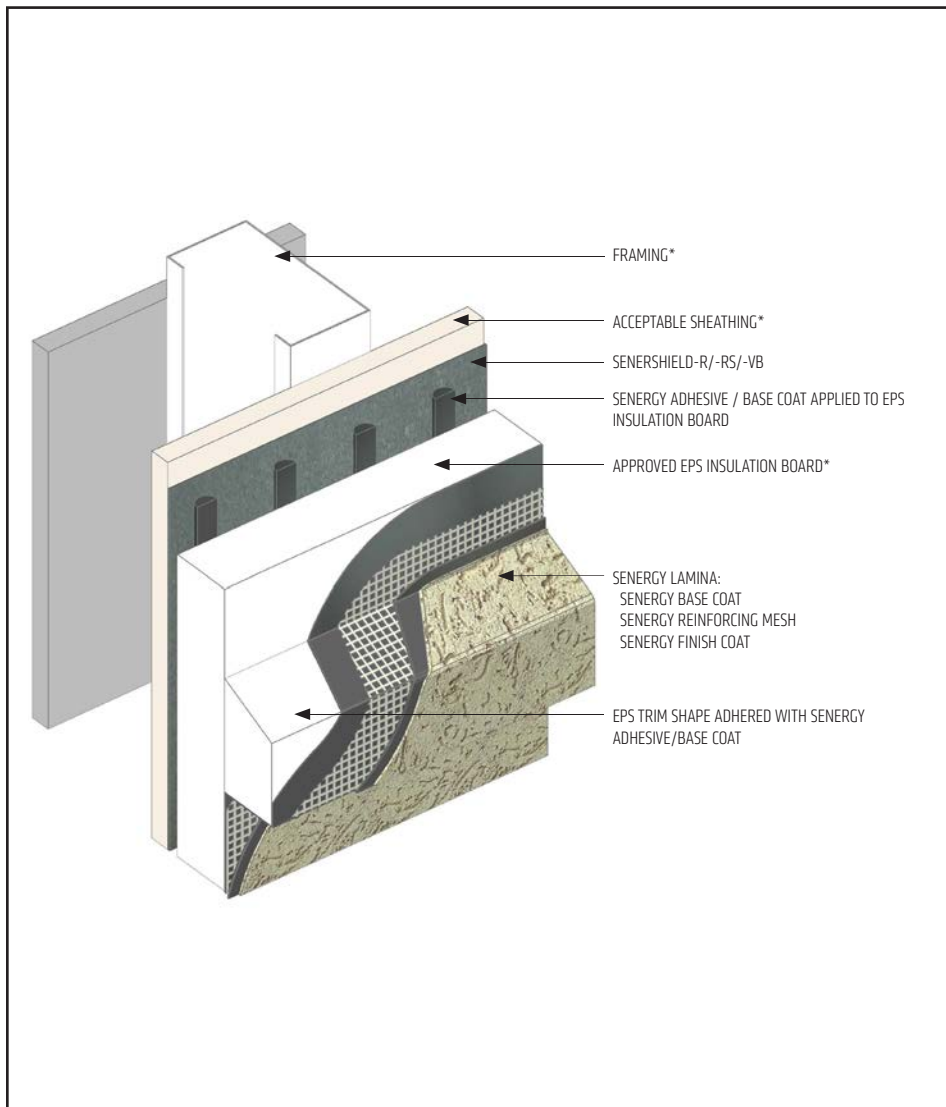
- Maintain a continuous layer of EPS insulation board, at a minimum 3/4" (19 mm) thickness, behind all reveals and aesthetic grooves.
- Reinforcing mesh shall be continuous and care shall be taken to ensure reinforcing mesh is not cut during base coat application.
- Horizontal reveals shall provide for outward positive drainage.
- Reveals must not occur at the abutment of two pieces of EPS insulation board.

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Channeled Adhesive CI Design

TYPICAL DECORATIVE SHAPE APPLICATION



CAD-08 2401

(*NOTE: BY OTHERS)

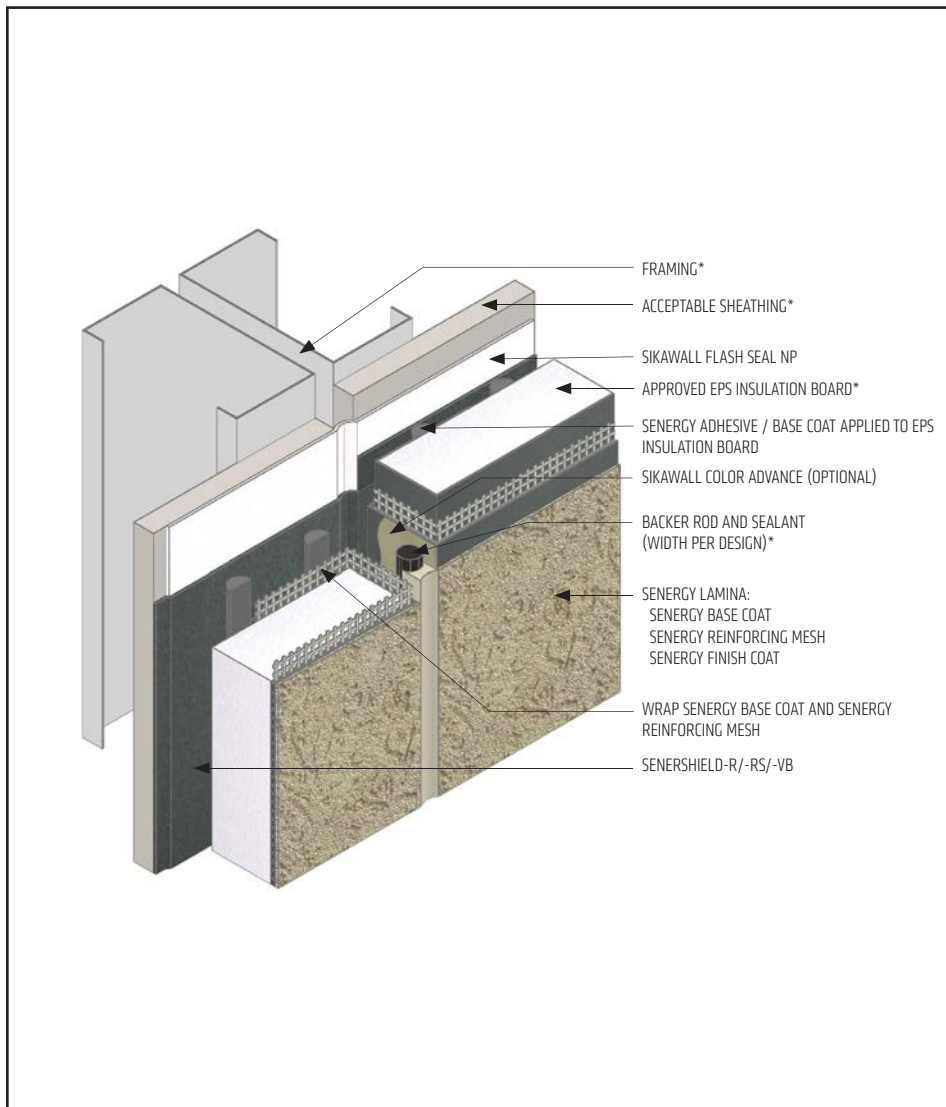
- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope. For sloped surfaces over 24" (340mm), a roofing system or a metal cap flashing is required.
- Senergy Joint Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senersshield-R/-RS/-VB or SikaWall Flash Seal NP.

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TYPICAL EXPANSION JOINT



CAD-09 2401

(*NOTE: BY OTHERS)

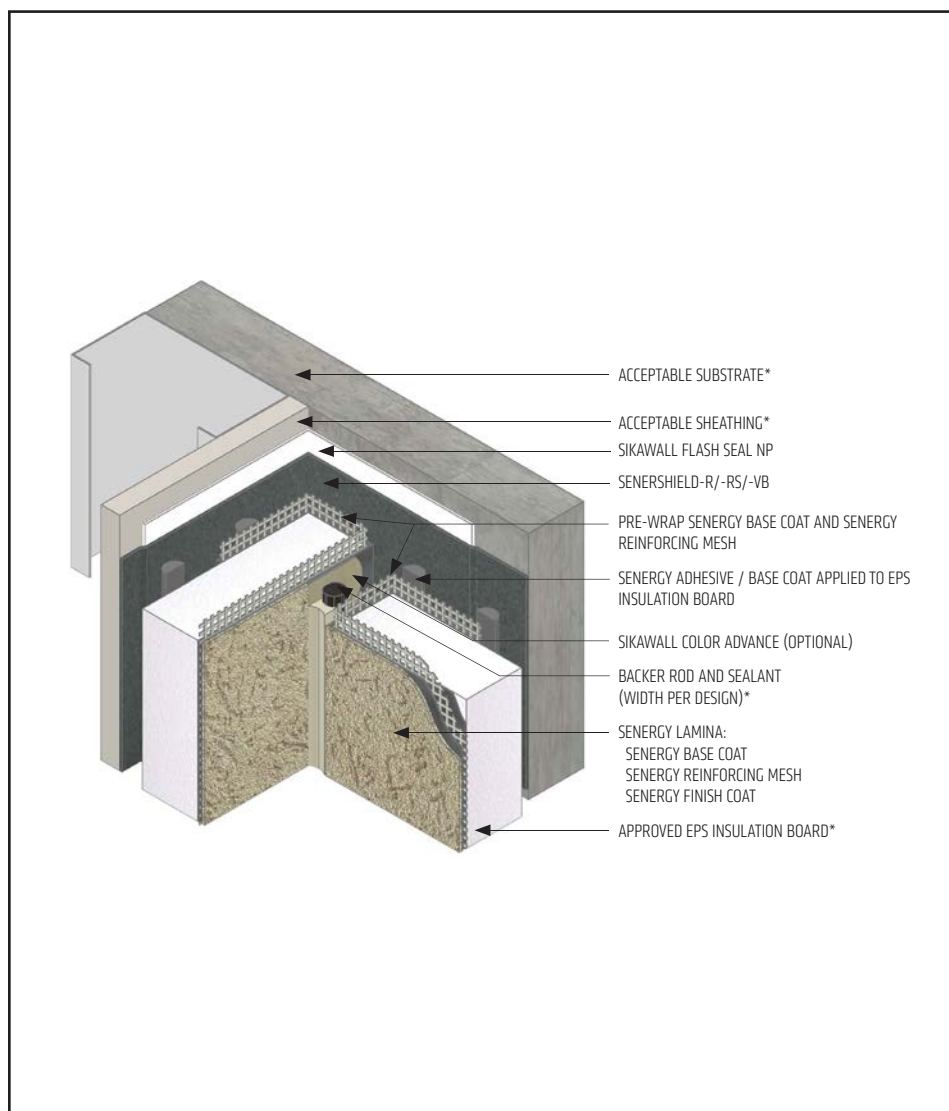
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings
- Provide sufficient slack in SikaWall Flash Seal NP at expansion joint to allow for movement.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL EXPANSION JOINT AT CHANGE IN SUBSTRATE



CAD-10 2401

(*NOTE: BY OTHERS)

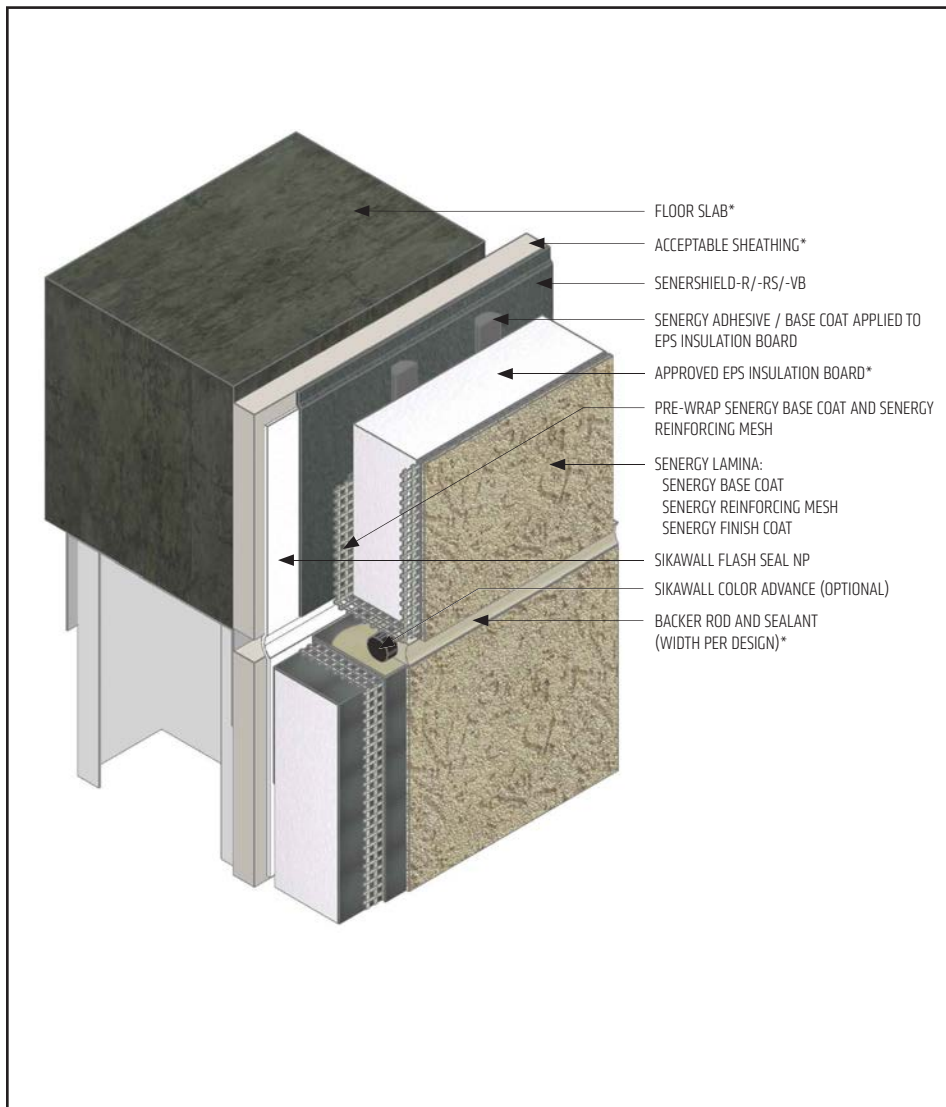
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- Provide sufficient slack in SikaWall Flash Seal NP at expansion joint to allow for movement.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL EXPANSION JOINT AT FLOORLINE



CAD-11 2401

(*NOTE: BY OTHERS)

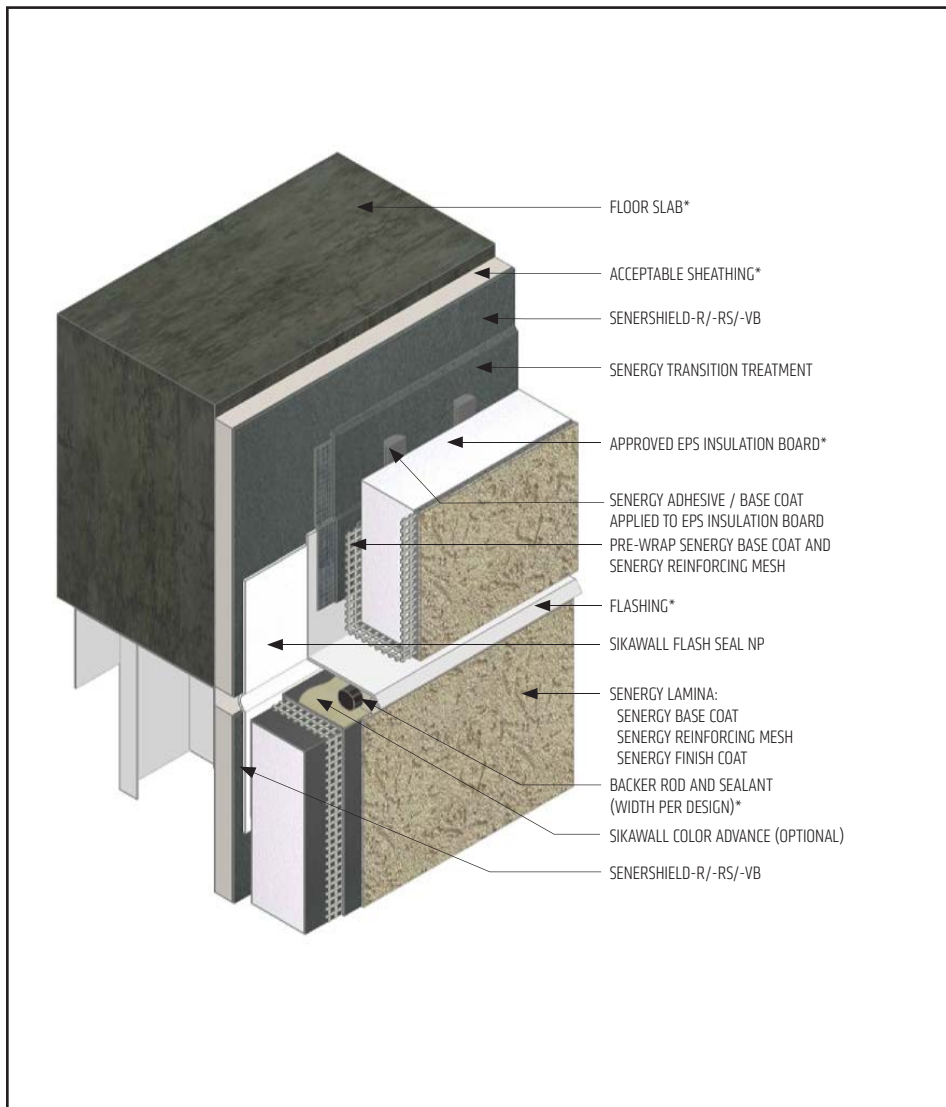
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.
- Provide sufficient slack in the SikaWall Flash Seal NP at expansion joint to allow for movement.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- It is recommended that a means for drainage is provided at every third floor. (See typical drainage at floorline detail).
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL DRAINAGE AT FLOORLINE



CAD-12 2401

(*NOTE: BY OTHERS)

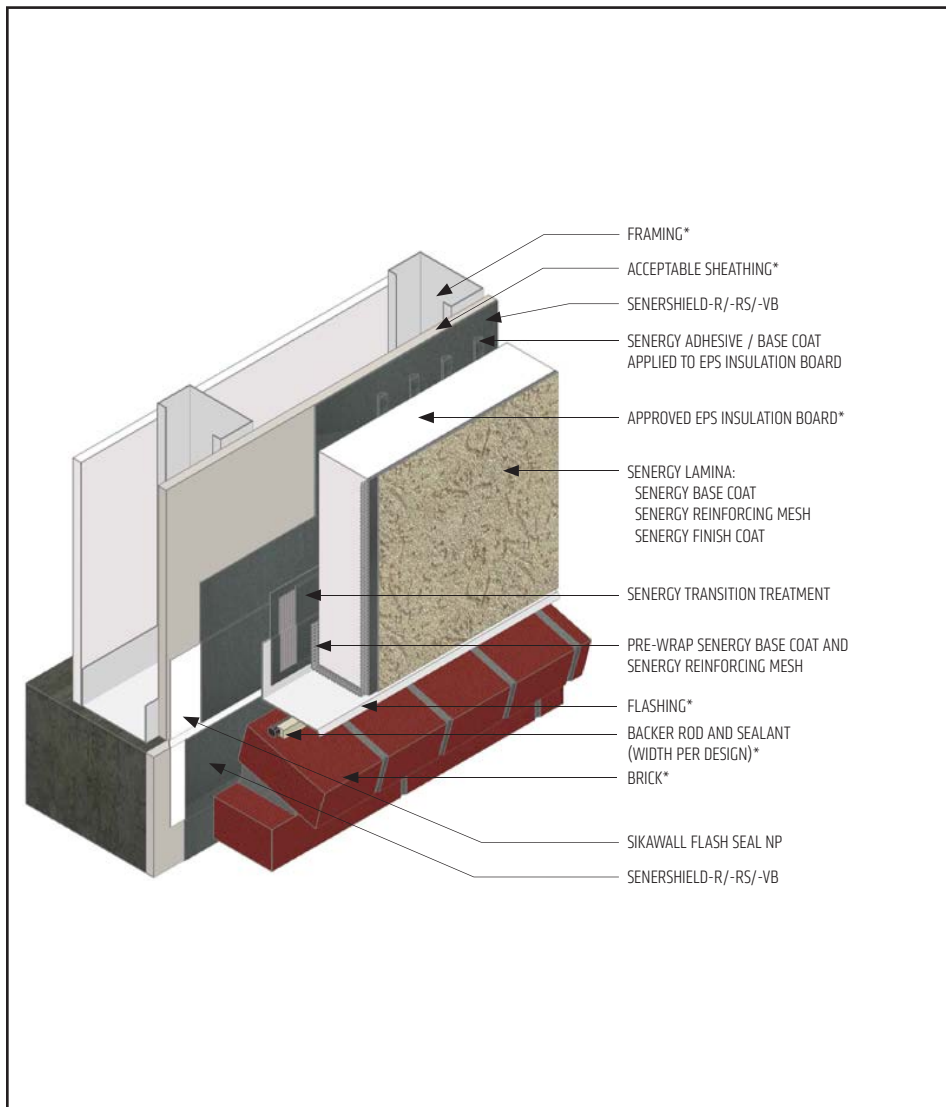
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- It is recommended that a means for drainage is provided at every third floor.
- Provide sufficient slack in the SikaWall Flash Seal NP at expansion joint to allow for movement.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for Use With Sika Facades Technical Bulletin* for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL ABUTMENT TO BRICK WITH FLASHING



CAD-13 2401

(*NOTE: BY OTHERS)

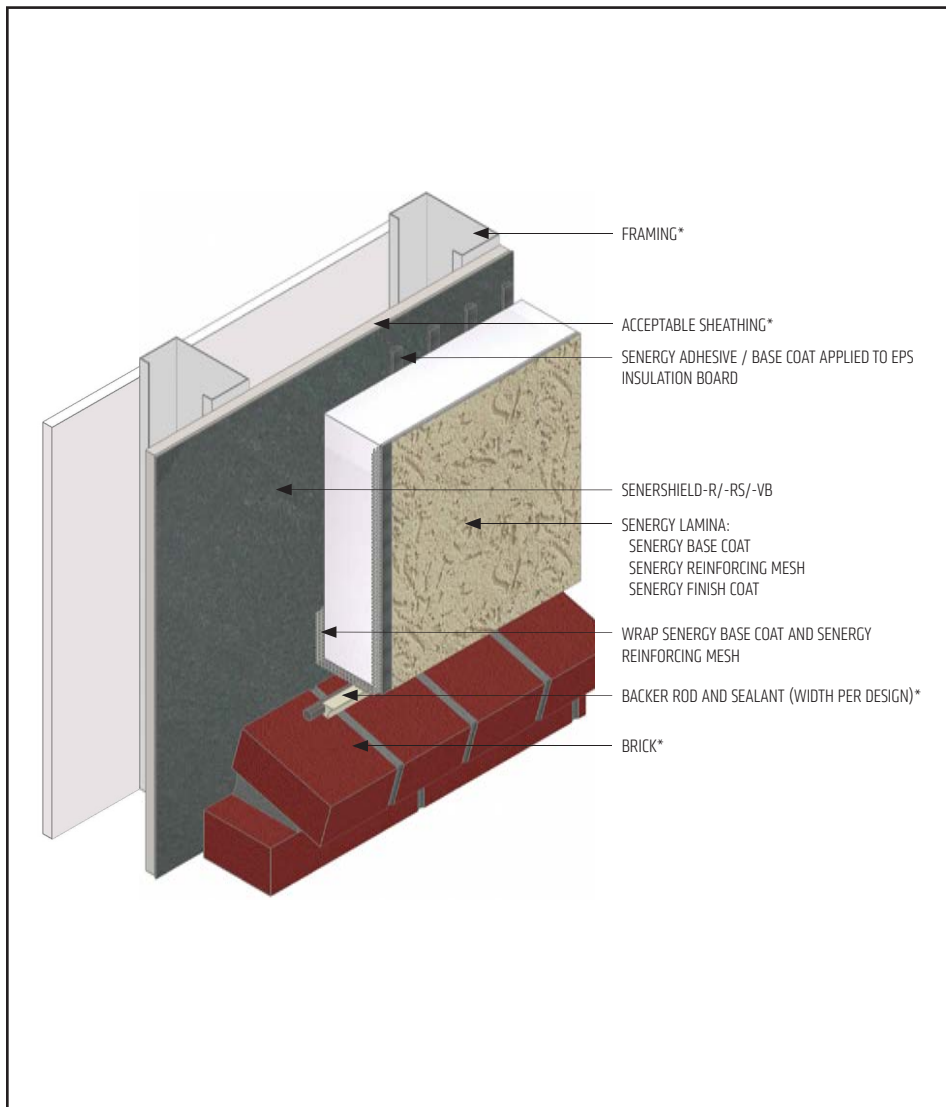
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at brick.
- Brick must be installed per local code requirements.
- Provide sufficient slack in the SikaWall Flash Seal NP at expansion joint to allow for movement.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

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TYPICAL ABUTMENT TO BRICK WITH CONTINUOUS DRAINAGE PLANE



CAD-14 2401

(*NOTE: BY OTHERS)

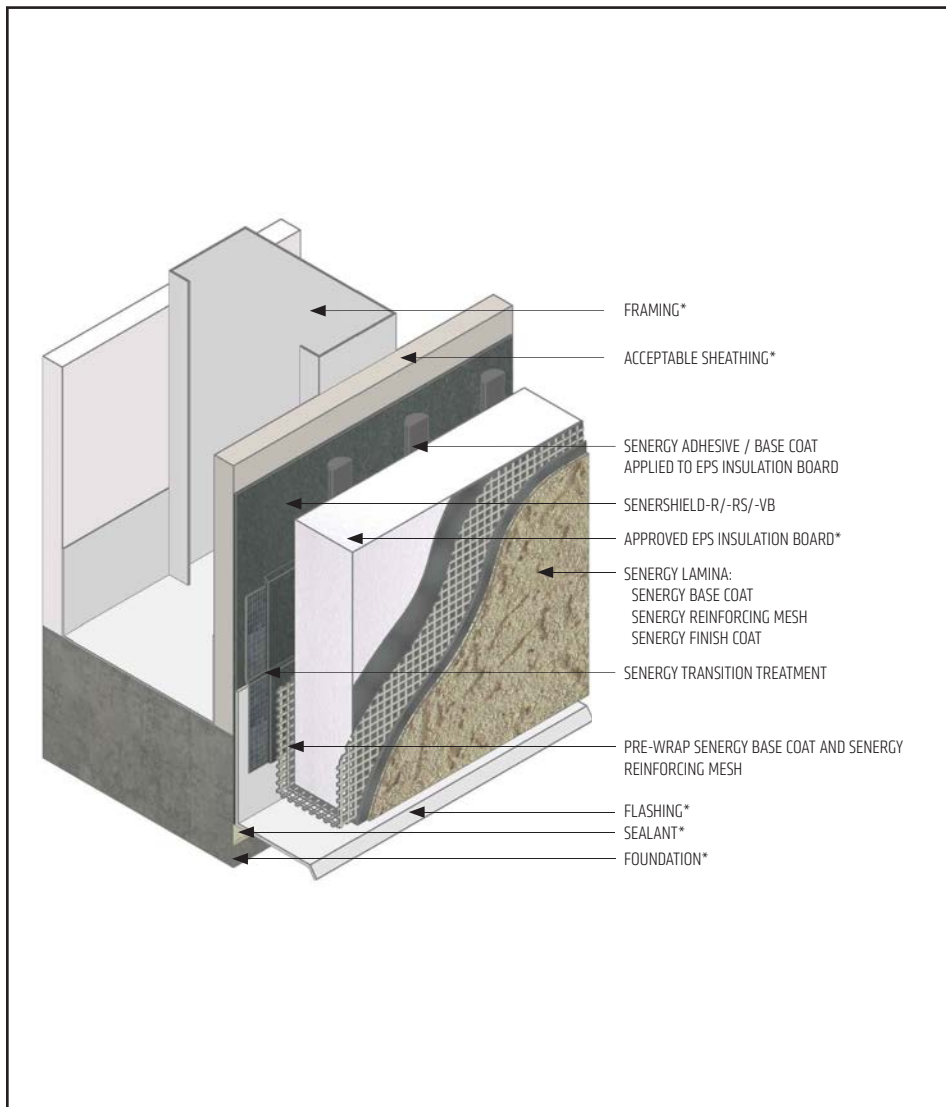
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a continuous drainage plane is maintained at system abutment to brick.
- Brick must be installed per local code requirements.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL TERMINATION AT FOUNDATION



CAD-15 2401

(*NOTE: BY OTHERS)

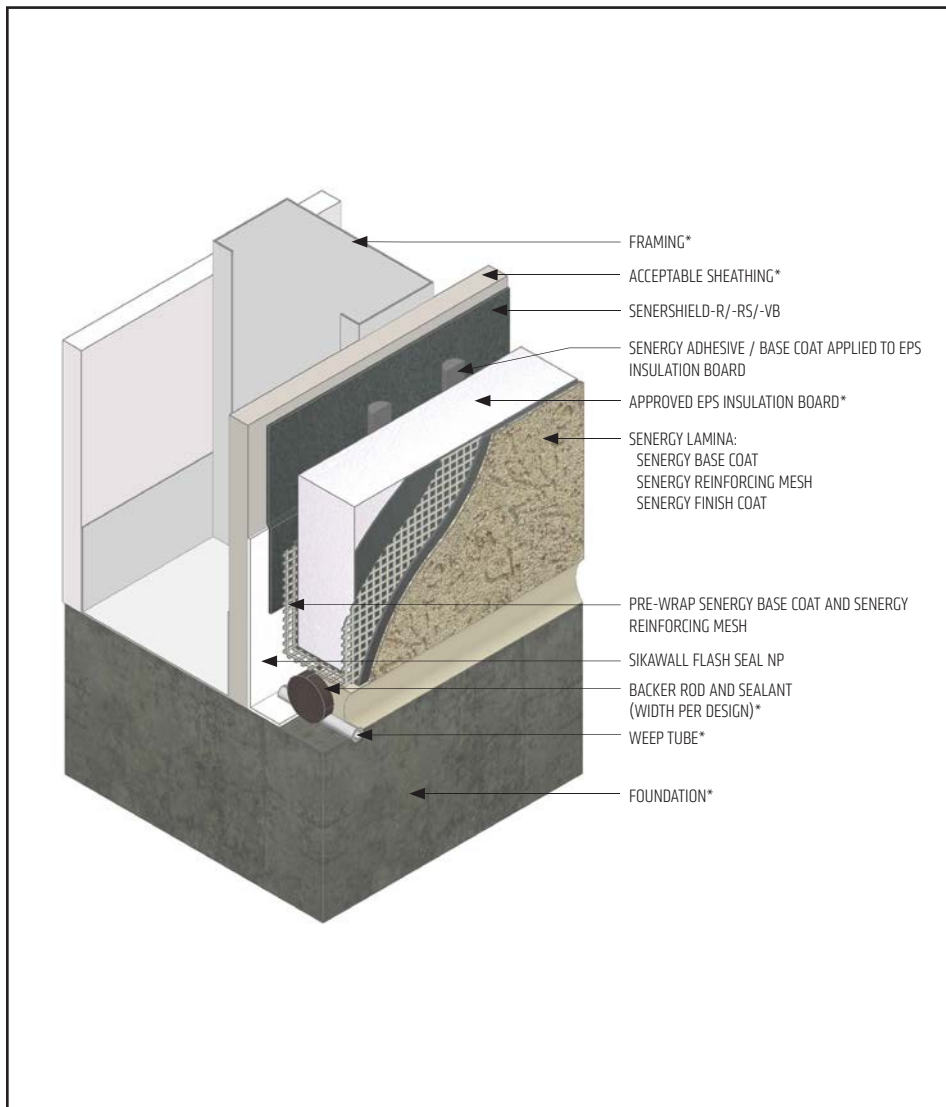
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at foundation.
- Terminate system a minimum of 6" (152 mm) above grade.
- Extend system a minimum of 2" (50 mm) and a maximum of 12" (305 mm) at the sole plate foundation transition.
- Apply Senergy Transition Treatment at transition from sheathing to concrete (behind flashing).
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

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Channeled Adhesive CI Design

TYPICAL TERMINATION AT FOUNDATION (FLUSH)



CAD-16 2401

(*NOTE: BY OTHERS)

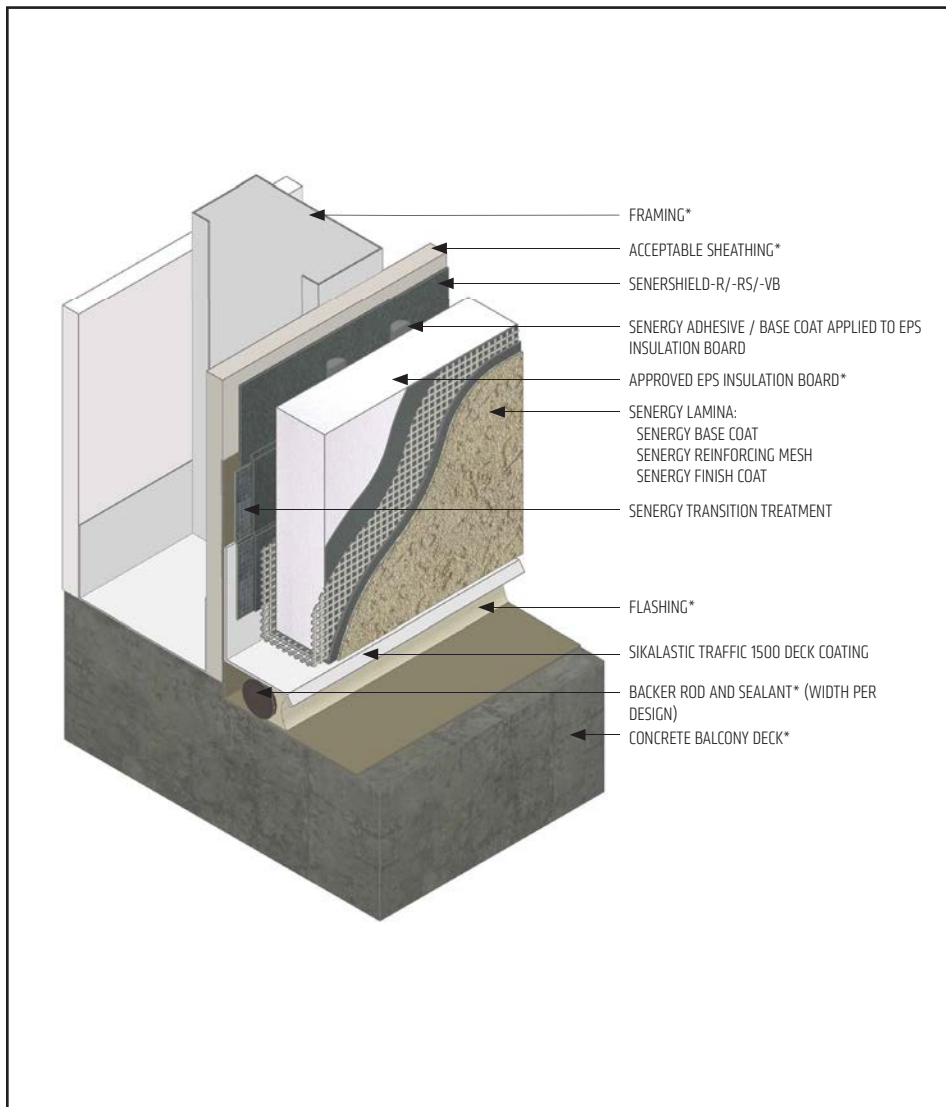
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at foundation.
- Place weep tubes a maximum of 24" (610 mm) on center.
- Do not apply finish to areas that will receive sealant.
- Reference *Acceptable Sealants for use with Senergy Wall System* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL TERMINATION AT BALCONY DECK



CAD-17 2401

(*NOTE: BY OTHERS)

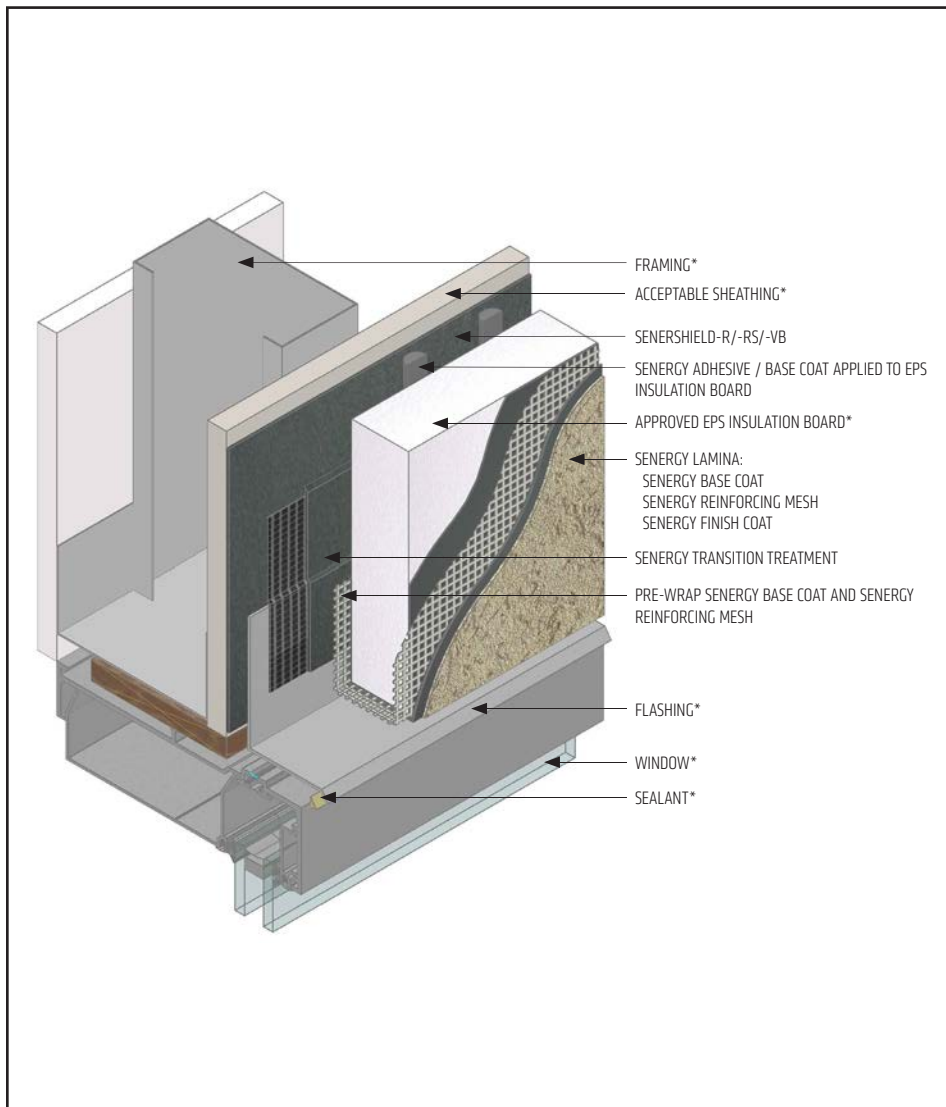
- For traffic/deck coating other than Sikalastic® Traffic 1500, ensure flashing flange fully covers the traffic/deck coating material prior to transitioning Senergy materials onto the flange.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.

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Channeled Adhesive CI Design

TYPICAL WINDOW HEAD (FLUSH)



CAD-18 2401

(*NOTE: BY OTHERS)

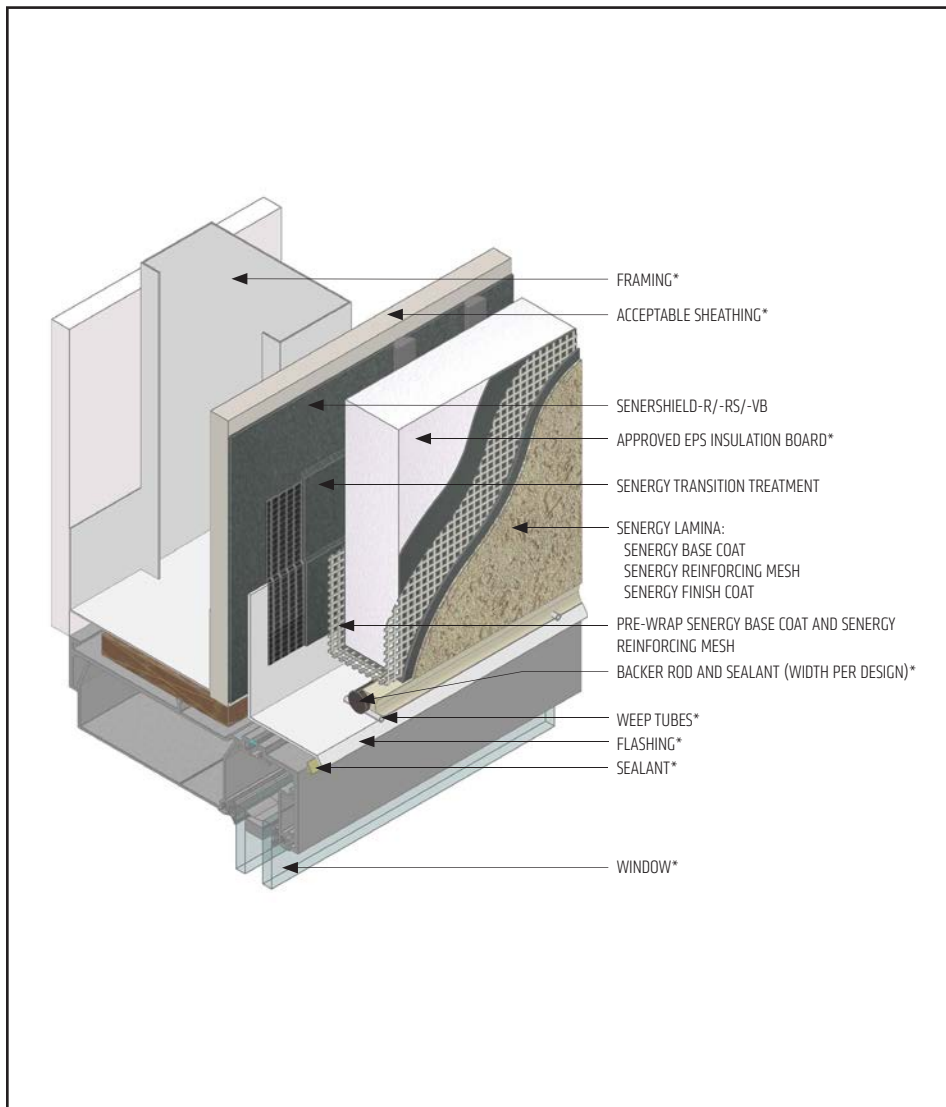
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at window head.
- Provide end-dams at flashing terminations.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL WINDOW HEAD (FLUSH) WITH WEEP TUBES



CAD-19 2401

(*NOTE: BY OTHERS)

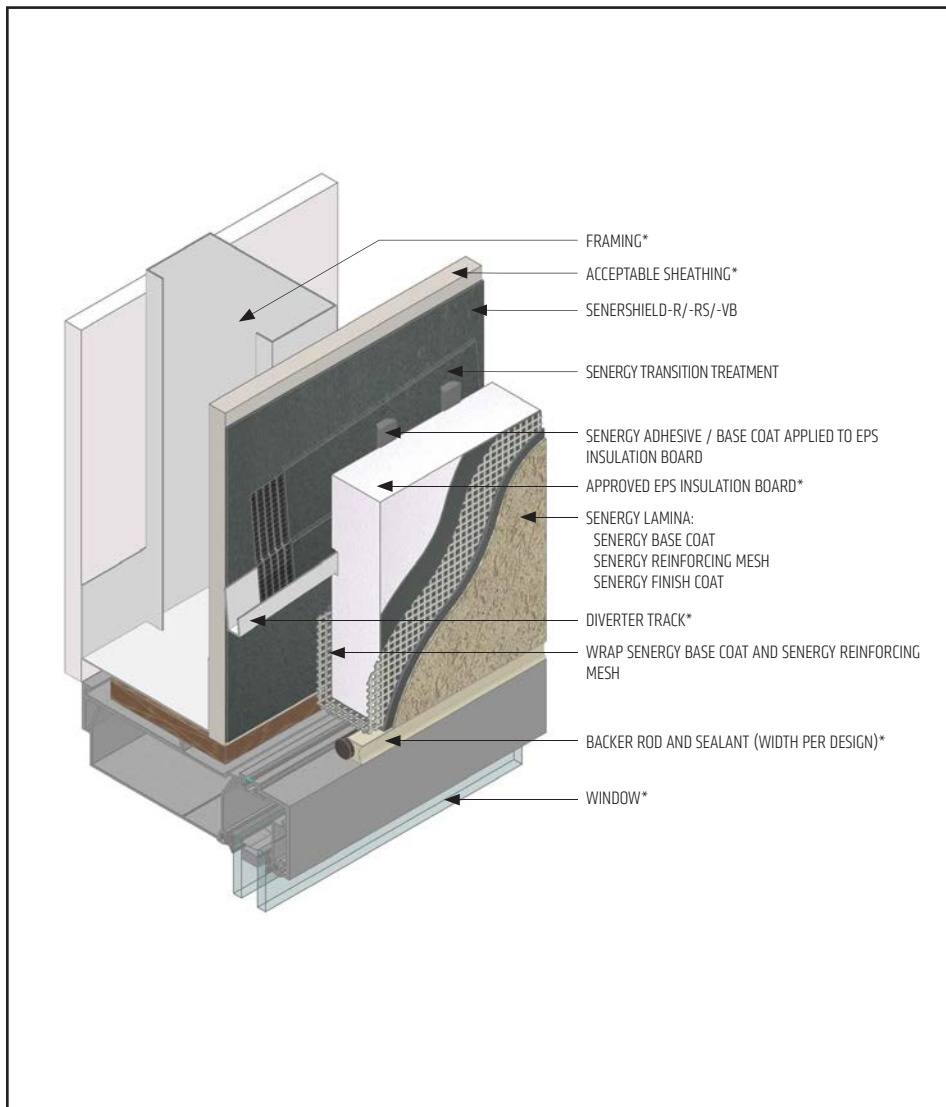
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at window head.
- Provide end-dams at flashing terminations.
- Do not apply finish to areas that will receive sealant.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details.
- Place weep tubes a maximum of 16" (406 mm) on center.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL WINDOW HEAD (FLUSH) WITH DIVERTER TRACK



CAD-20 2401

(*NOTE: BY OTHERS)

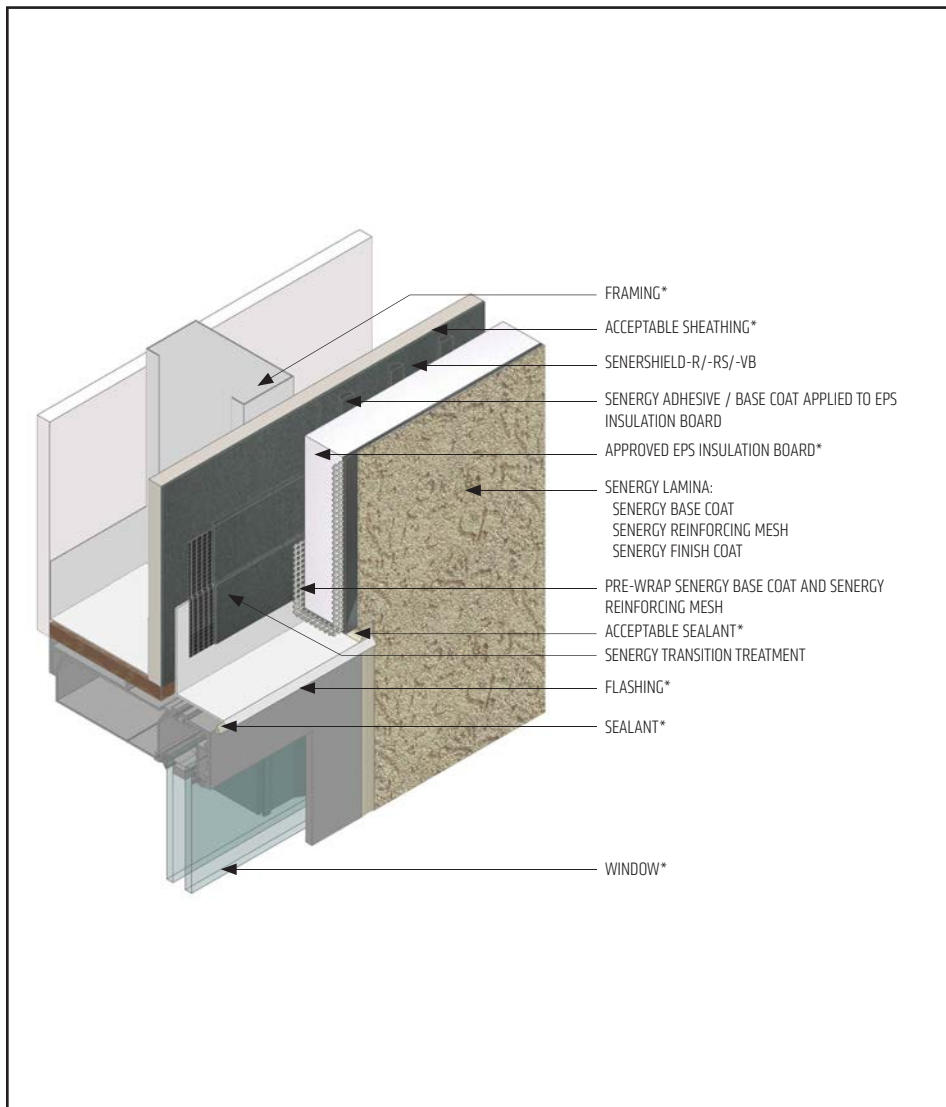
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Diverter Flashing Requirements:
 - Extend diverter flashing 6" (152 mm) beyond opening on either side of the opening to allow potential moisture to drain down the wall to the side of the opening.
 - Ensure the flashing is in one piece and does not exceed 10 ft.
 - Ensure the diverter track flashing is sloped 1-2" to provide a means for drainage.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Maintain a minimum of 3/4" (19 mm) EPS insulation thickness.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Do not apply finish in areas that will receive sealant.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL WINDOW HEAD WITH SEALANT END DAM



CAD-21 2401

(*NOTE: BY OTHERS)

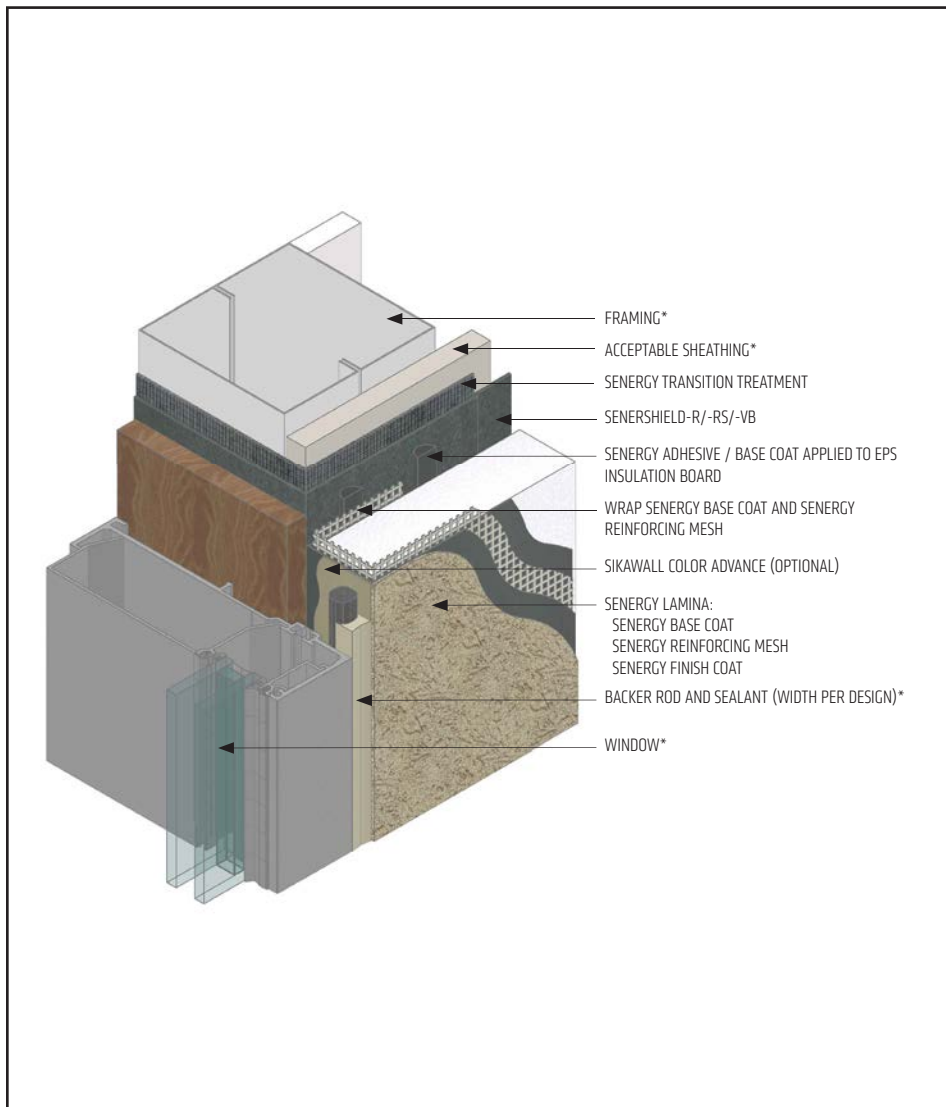
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senersshield-R/-RS/-VB or SikaWall Flash Seal NP.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senersshield published typical details.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Do not apply finish in areas that will receive sealant.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

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Channeled Adhesive CI Design

TYPICAL WINDOW JAMB (FLUSH)



CAD-22 2401

(*NOTE: BY OTHERS)

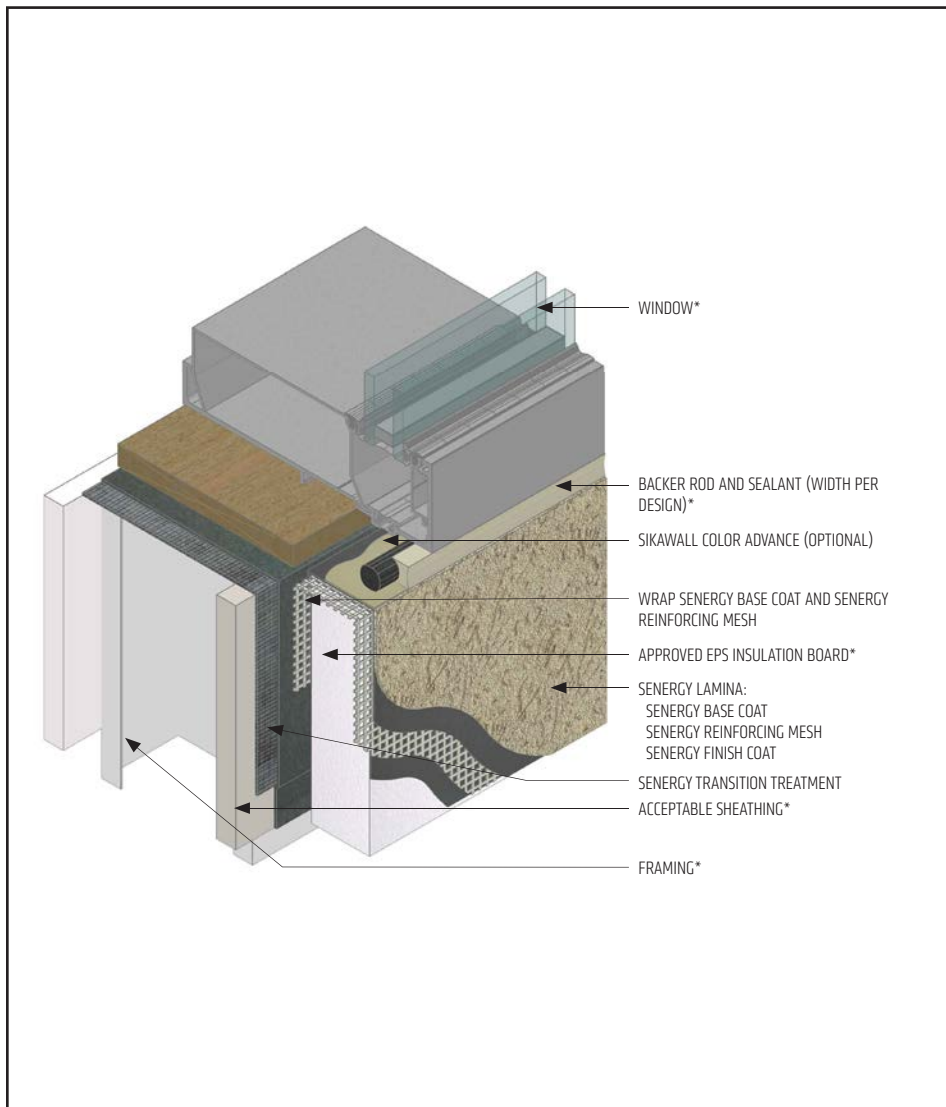
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senersshield published typical details for further information.
- Do not apply finish to areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senersshield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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TYPICAL WINDOW SILL (FLUSH)



CAD-23 2401

(*NOTE: BY OTHERS)

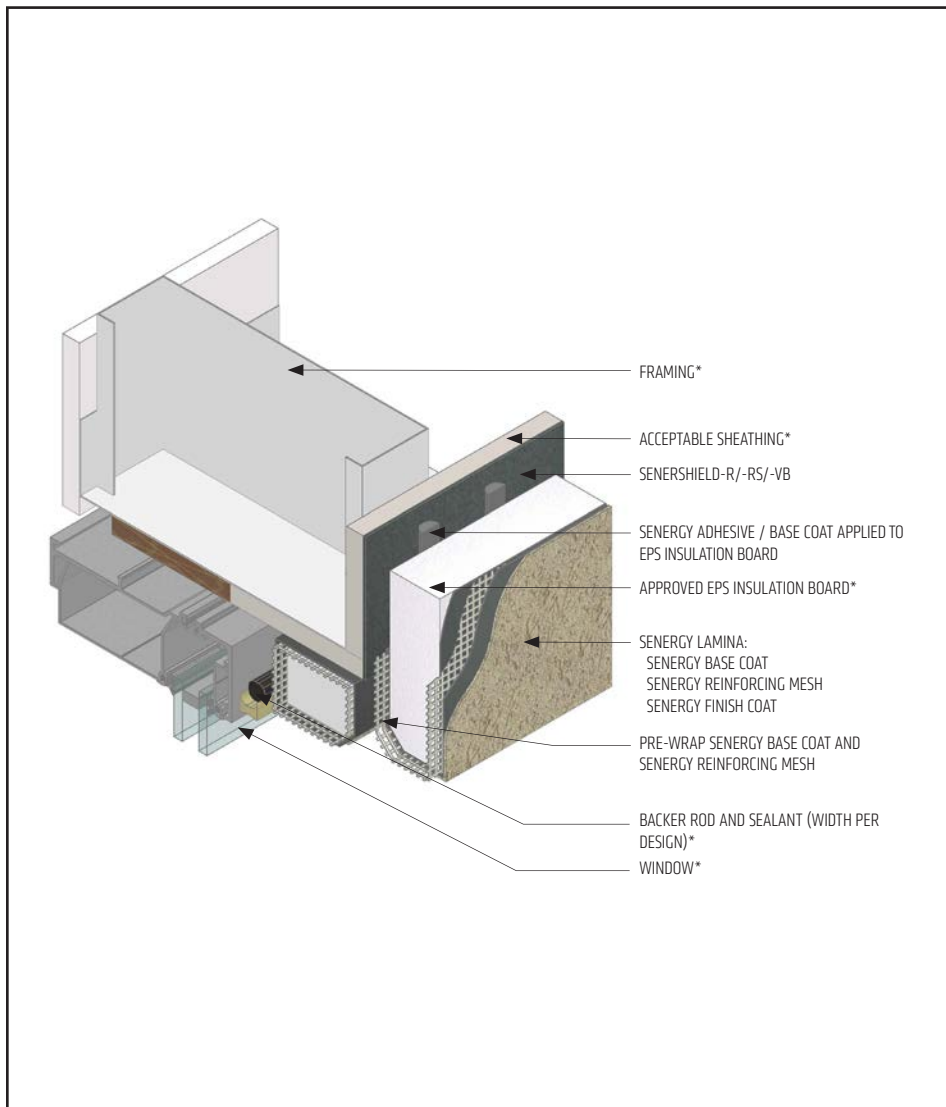
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied to the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details.
- Do not apply finish to areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL WINDOW HEAD (RECESSED)



CAD-24 2401

(*NOTE: BY OTHERS)

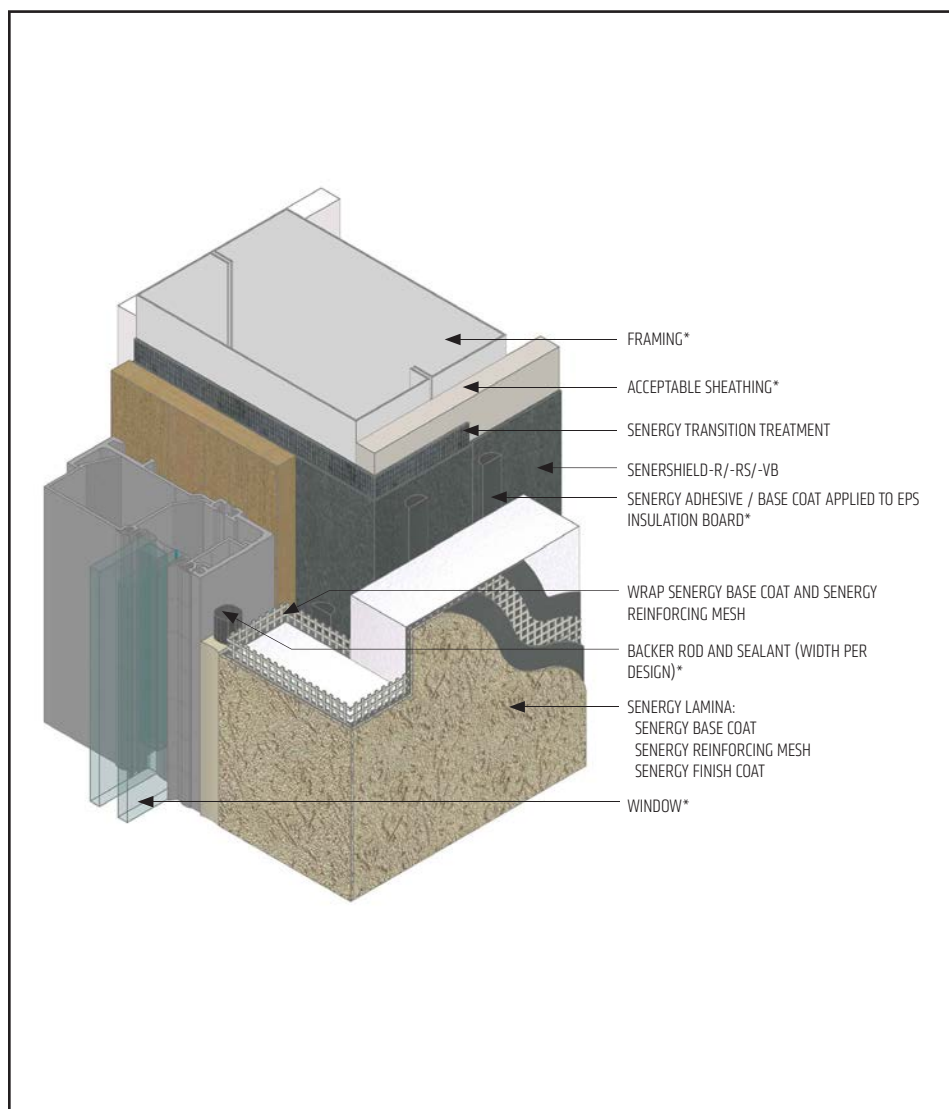
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.
- Ensure a means for drainage is provided at system termination at window head.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details for further information.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Reference *Acceptable Sealants for Use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL WINDOW JAMB (RECESSED)



CAD-25 2401

(*NOTE: BY OTHERS)

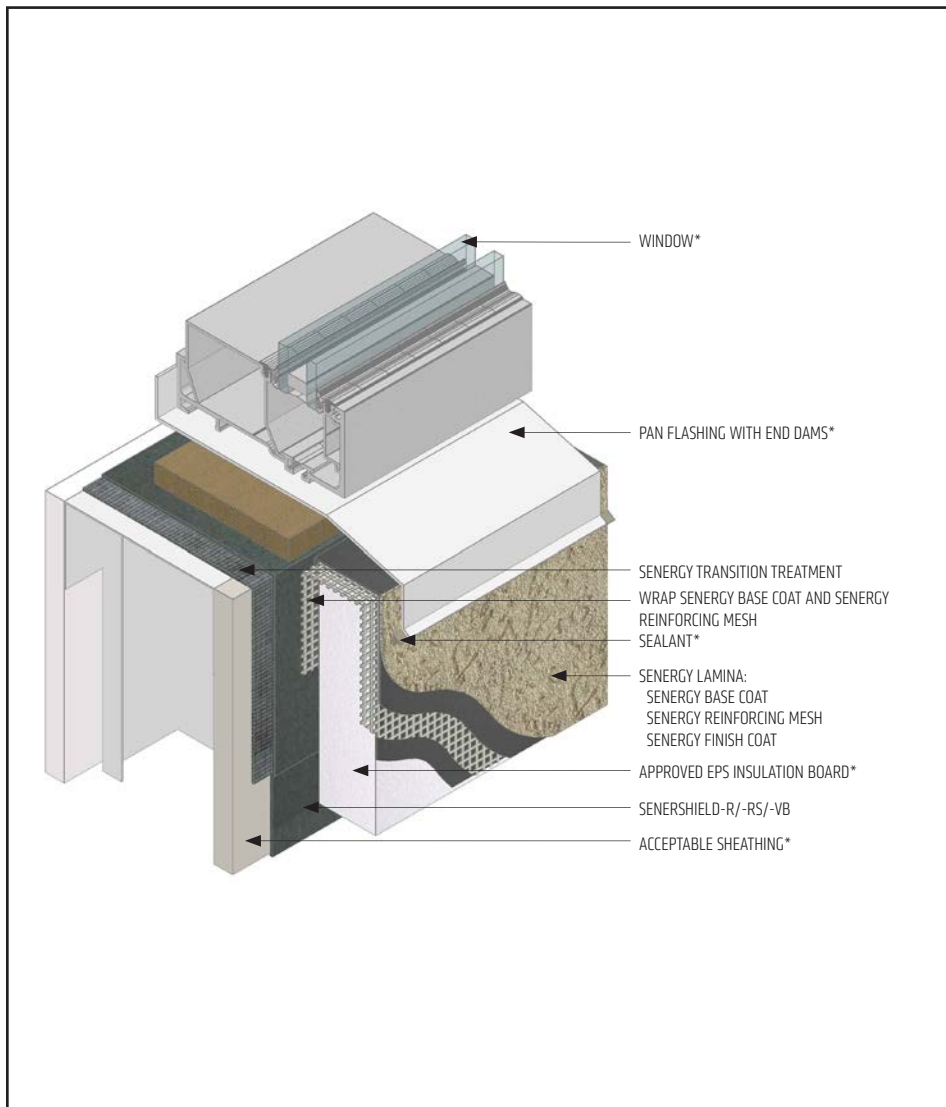
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details for further information.
- Do not apply finish to areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Senergy Transition Treatment Options: SikaWall Flash Seal MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL WINDOW SILL (RECESSED)



CAD-26 2401

(*NOTE: BY OTHERS)

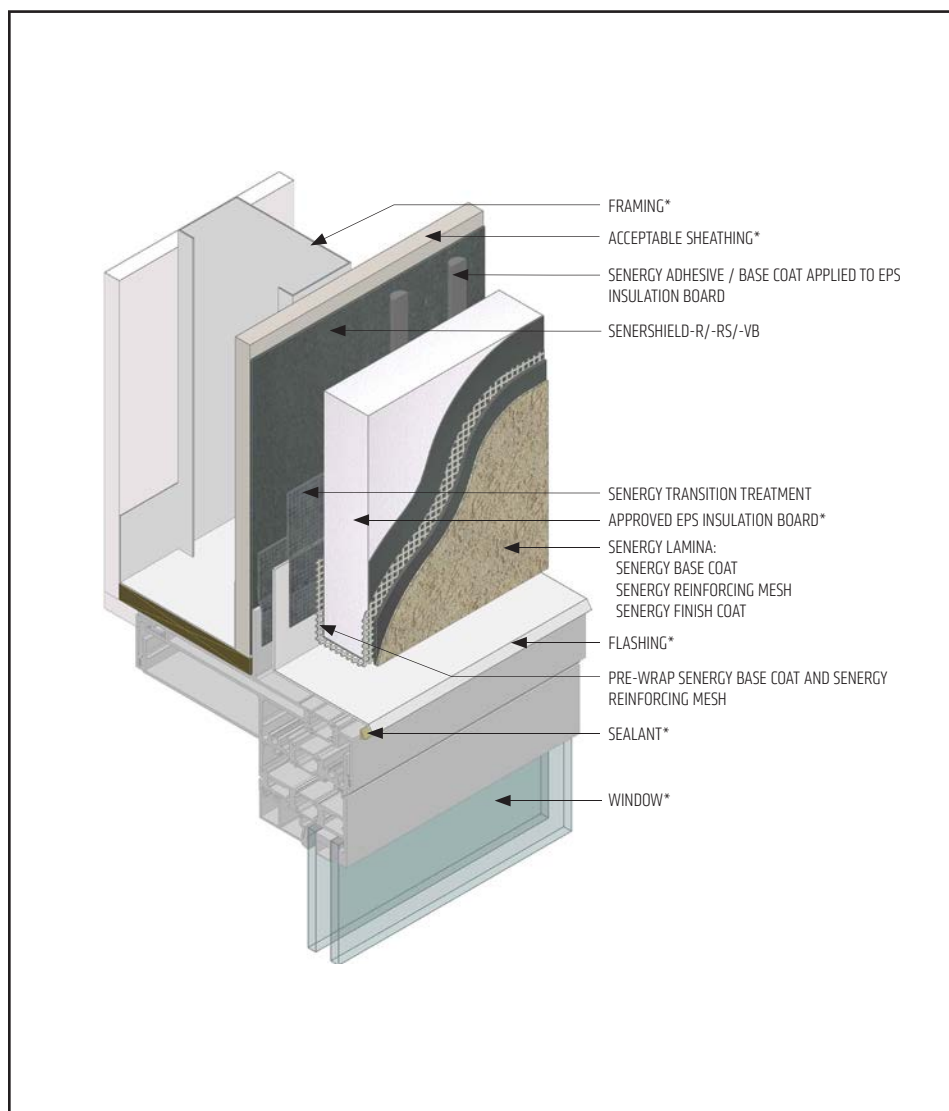
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to EPS insulation board application.
- Ensure that metal pan flashing extends onto the system a minimum of 2" (50 mm) down the face and that end dams are provided.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL FLANGED WINDOW HEAD



CAD-27 2401

(*NOTE: BY OTHERS)

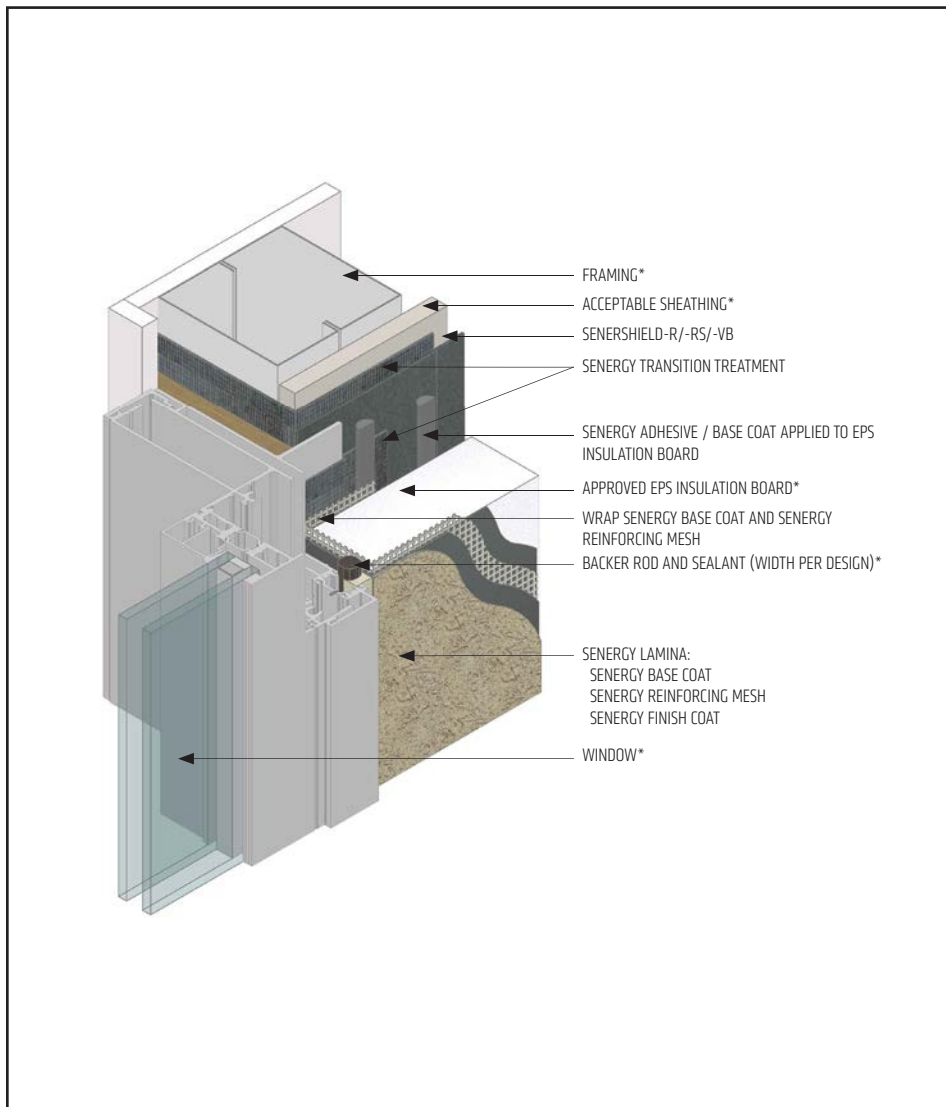
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure the window flange is treated with a Senergy transition treatment.
- Ensure a means for drainage is provided at system termination at window head.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senersshield-R/-RS/-VB or SikaWall Flash Seal NP.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senersshield published typical details for further information.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL FLANGED WINDOW JAMB



CAD-28 2401

(*NOTE: BY OTHERS)

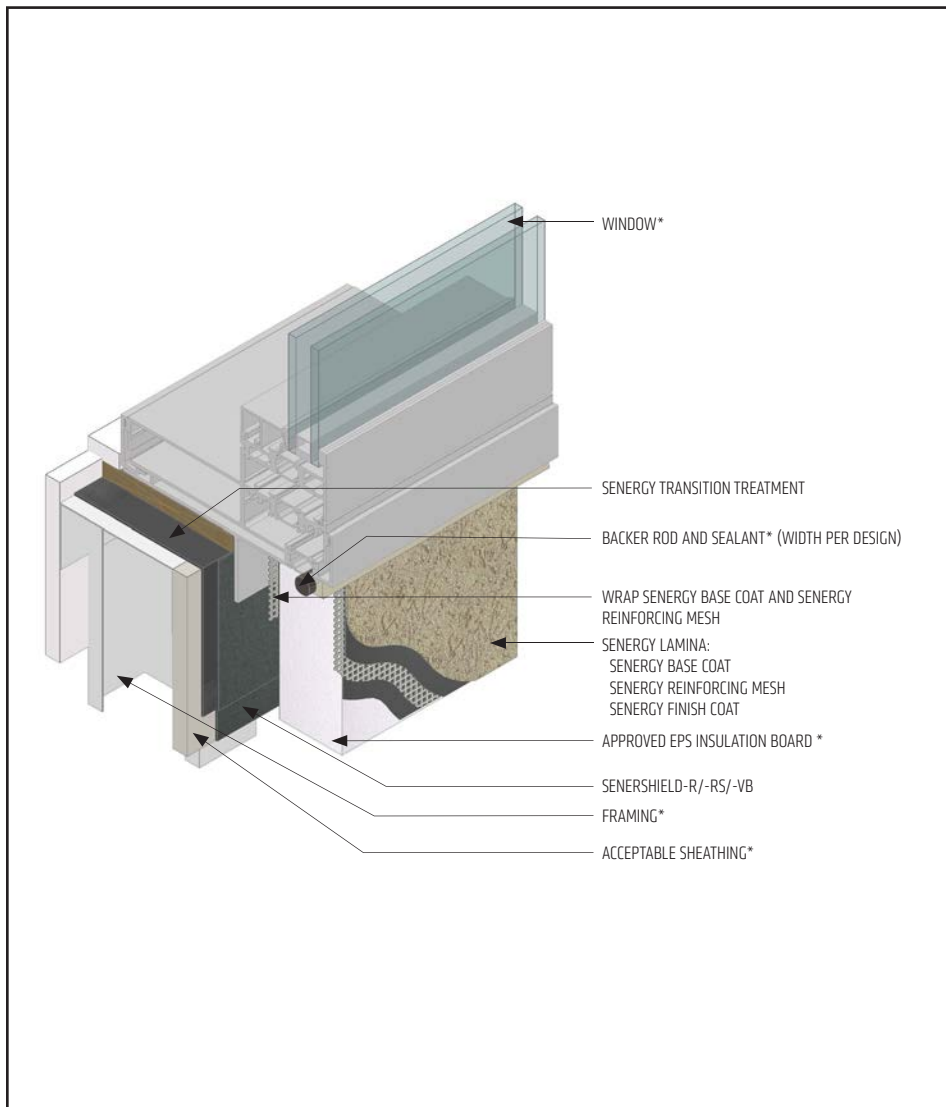
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure the window flange is treated with a Senergy transition treatment.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senersshield-R/-RS/-VB or SikaWall Flash Seal NP.
- Do not apply finish to areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senersshield published typical details.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL FLANGED WINDOW SILL



CAD-29 2401

(*NOTE: BY OTHERS)

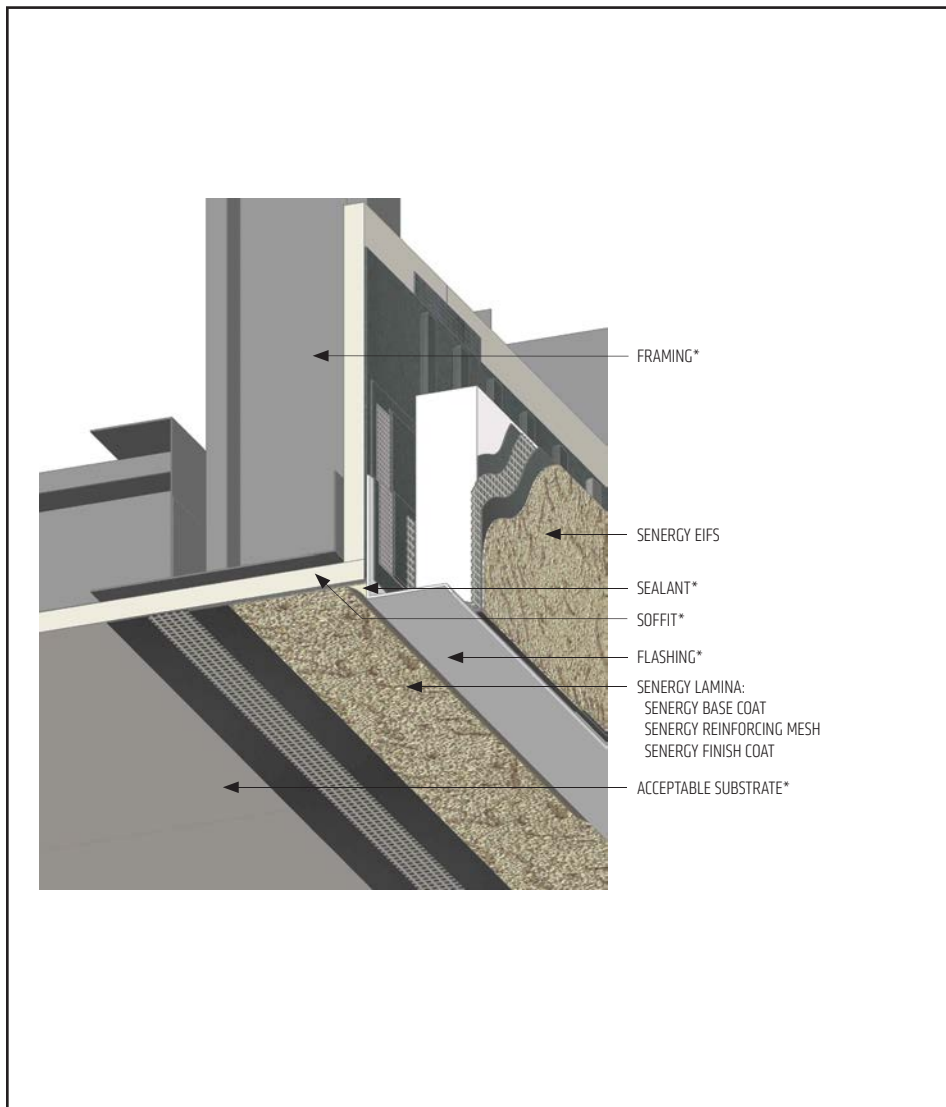
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure the window flange is left untreated for drainage.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Prior to window and EPS installation, ensure water-resistive barrier is properly applied into the rough openings in accordance with Senergy application guidelines and code requirements. Reference Senergy Senershield published typical details.
- Do not apply finish to areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.

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Channeled Adhesive CI Design

TYPICAL FASCIA TO DIRECT APPLIED SOFFIT



- Verify substrate is flat, free of fins or planar irregularities greater than 1/4" in 10".
- Install wall system first followed by lamina application at soffit.
- Ensure a means for drainage is provided at system termination at soffit.
- Extend flashing slightly below the level of the soffit to provide a surface for sealant application.
- Extend Senershield-R/-RS/-VB a minimum of 4" (100mm) onto soffit. If necessary for air barrier continuity Senershield-R/RS/VB can be applied over entire soffit.
- Reference Senergy Finishing System for Soffits and Ceilings published literature for additional information.

CAD-30 2401

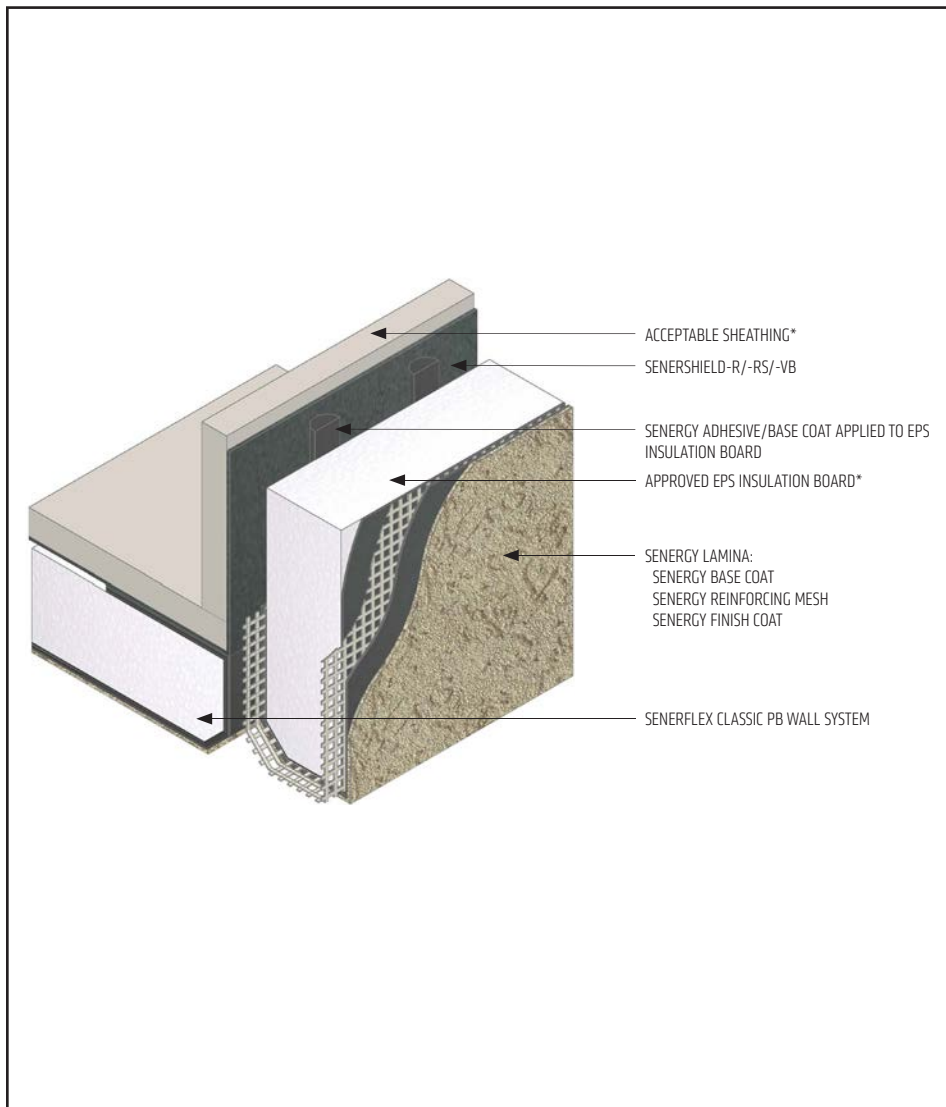
(*NOTE: BY OTHERS)

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Channeled Adhesive CI Design

TYPICAL FASCIA TO INSULATED SOFFIT



CAD-31 2401

(*NOTE: BY OTHERS)

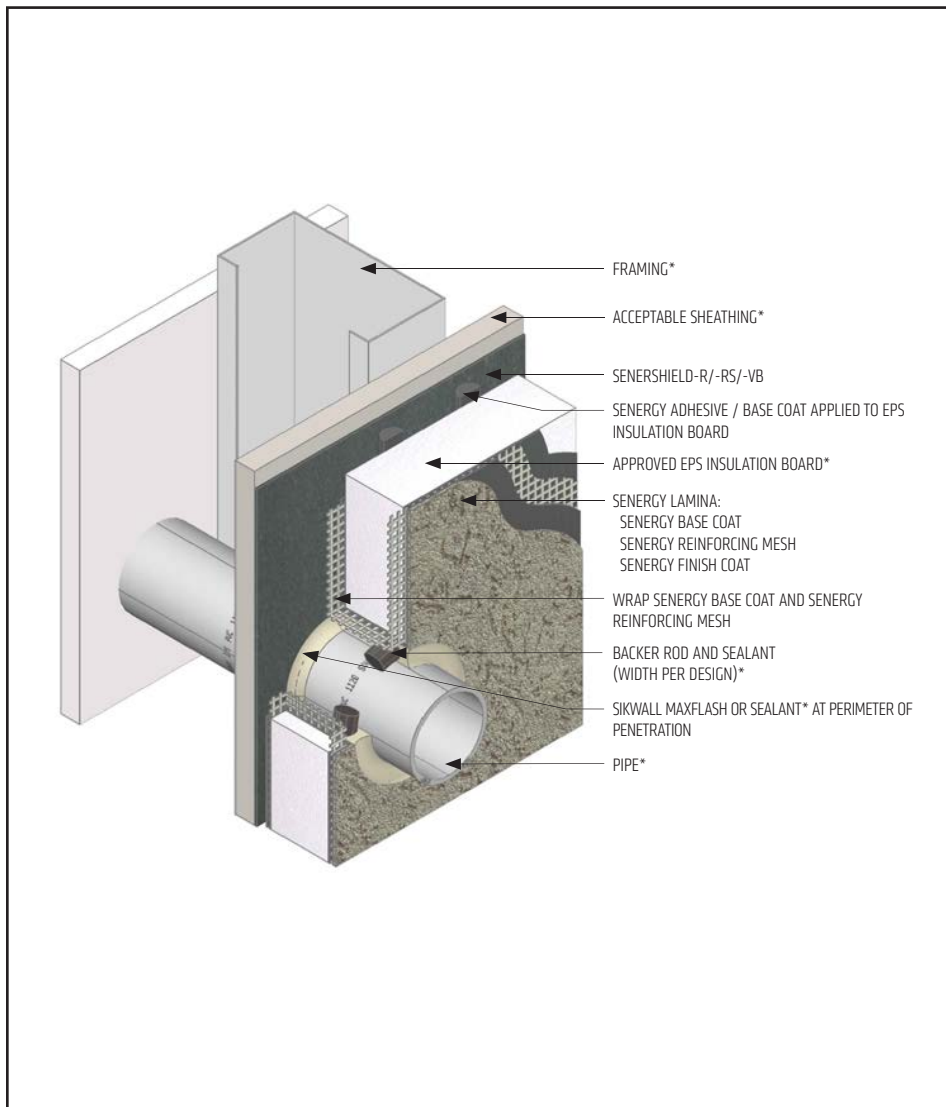
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrap both the vertical and horizontal terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Extend Senershield-R/-RS/-VB a minimum of 4" (100mm) onto soffit. If necessary for air barrier continuity Senershield-R/-RS/-VB can be applied over entire soffit.
- Ensure a means of drainage is provided at system termination at soffit/fascia transition.

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Channeled Adhesive CI Design

TYPICAL PIPE PENETRATION



CAD-32 2401

(*NOTE: BY OTHERS)

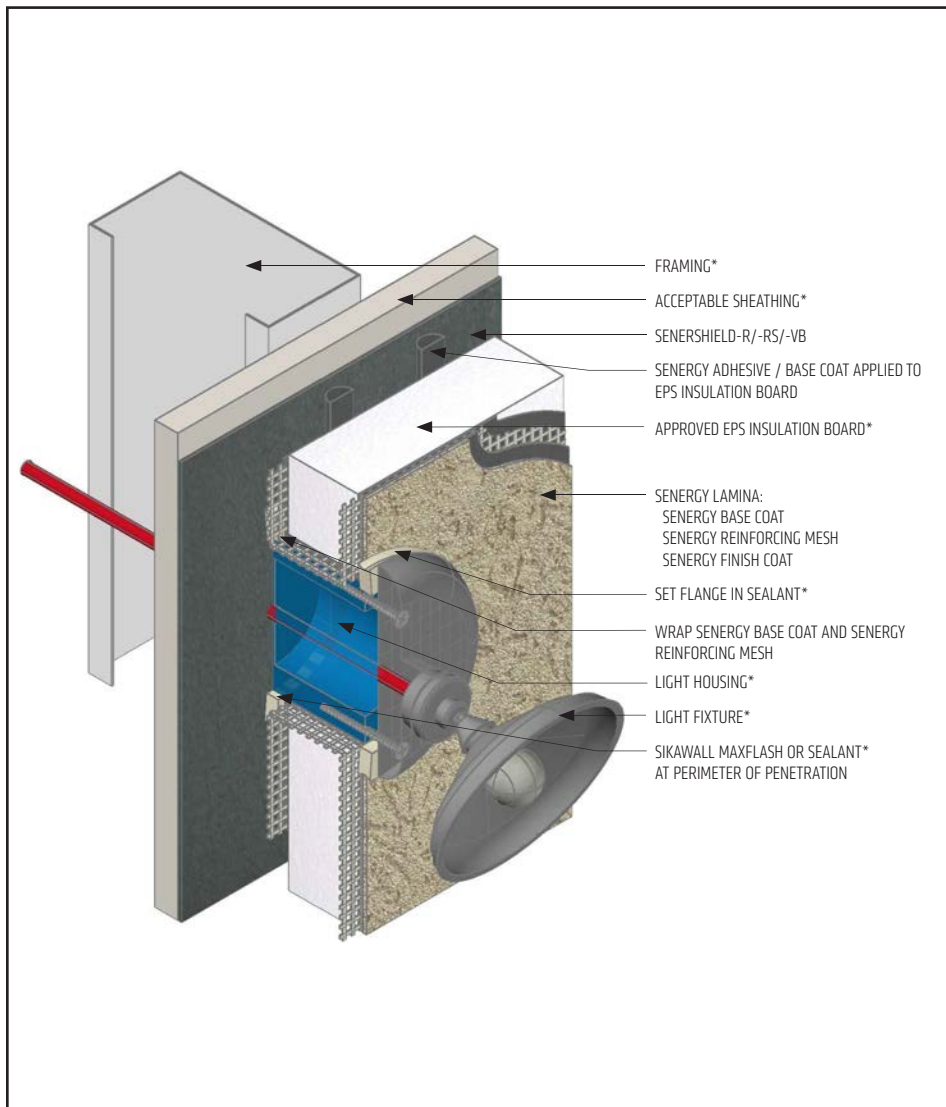
- All terminations must be fully encapsulated with mesh reinforced basecoat. Pre-backwrap both the vertical and horizontal terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure all penetrations into the system are properly sealed. Reference *Acceptable Sealants to use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Provide continuous air seal around perimeter of penetration prior to EPS insulation board application. Reference *Acceptable Sealants for use with Senershield-R/-RS/-VB* Technical Bulletin for a list of sealants.
- Do not apply finish to areas that will receive sealant.

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Channeled Adhesive CI Design

TYPICAL LIGHT FIXTURE



CAD-33 2401

(*NOTE: BY OTHERS)

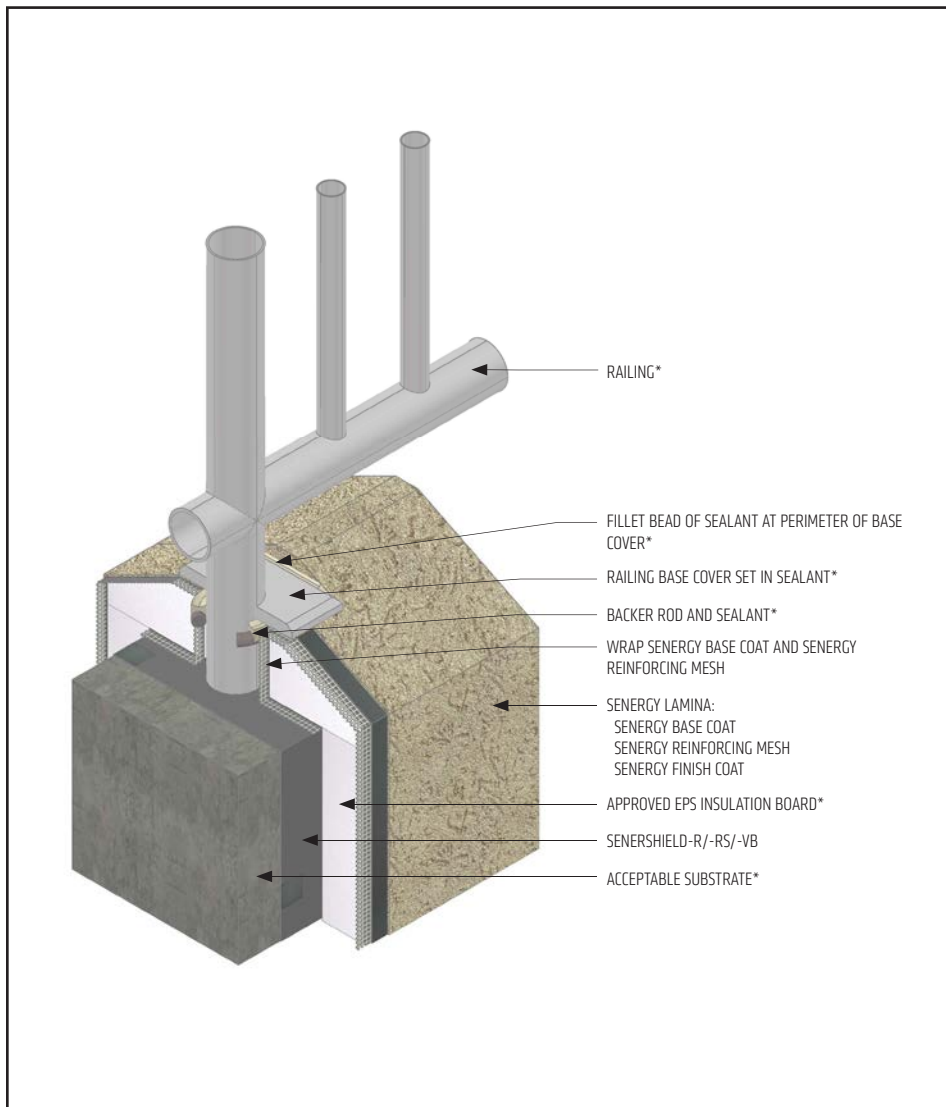
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrap both the vertical and horizontal terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure all penetrations into the system are properly sealed.
- Reference *Acceptable Sealants to use with Senergy Wall Systems* Technical Bulletin for a list of sealants.
- Provide continuous air seal around perimeter of penetration prior to EPS insulation board application. Reference *Acceptable Sealants for use with Senershield-R/-RS/-VB* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL CORE MOUNTED RAILING ATTACHMENT



CAD-34 2401

(*NOTE: BY OTHERS)

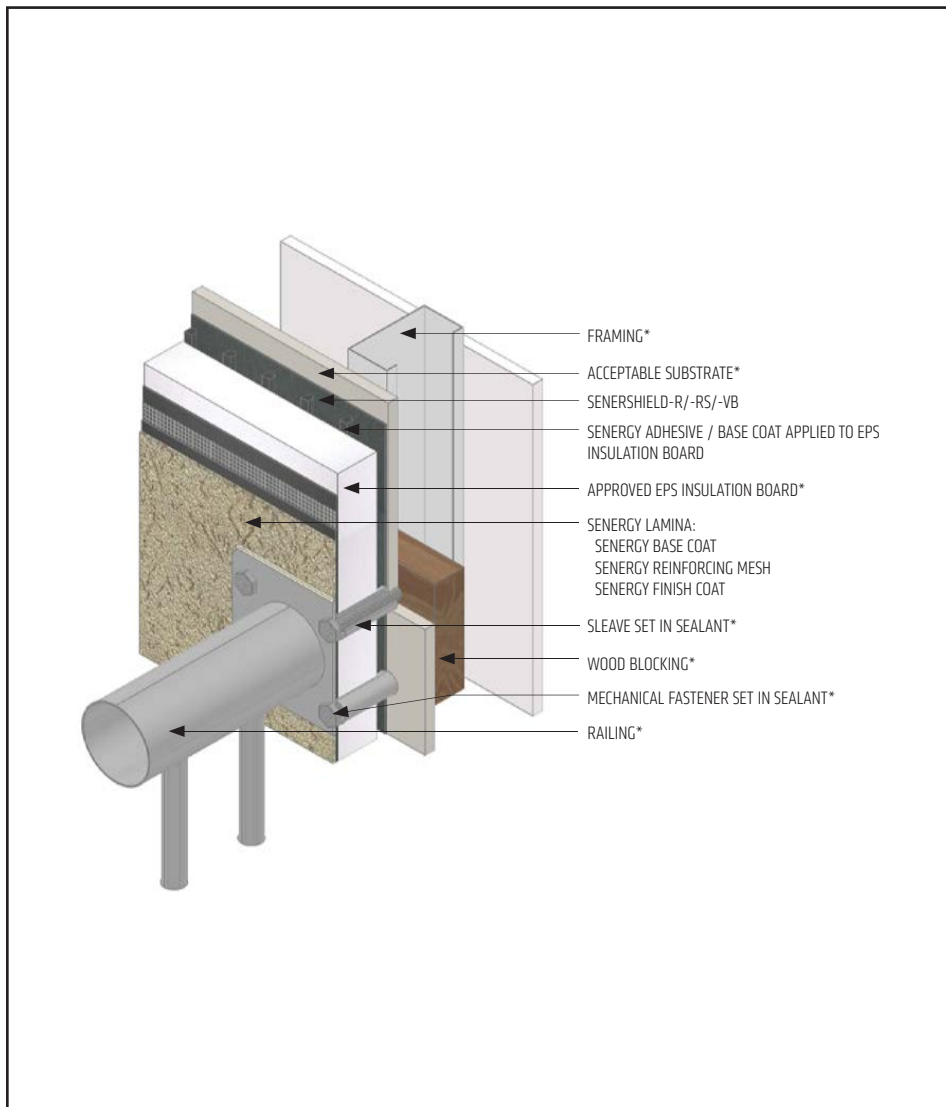
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrap both the vertical and horizontal terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure all penetrations into the system are properly sealed.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL RAILING ATTACHMENT



CAD-35 2401

(*NOTE: BY OTHERS)

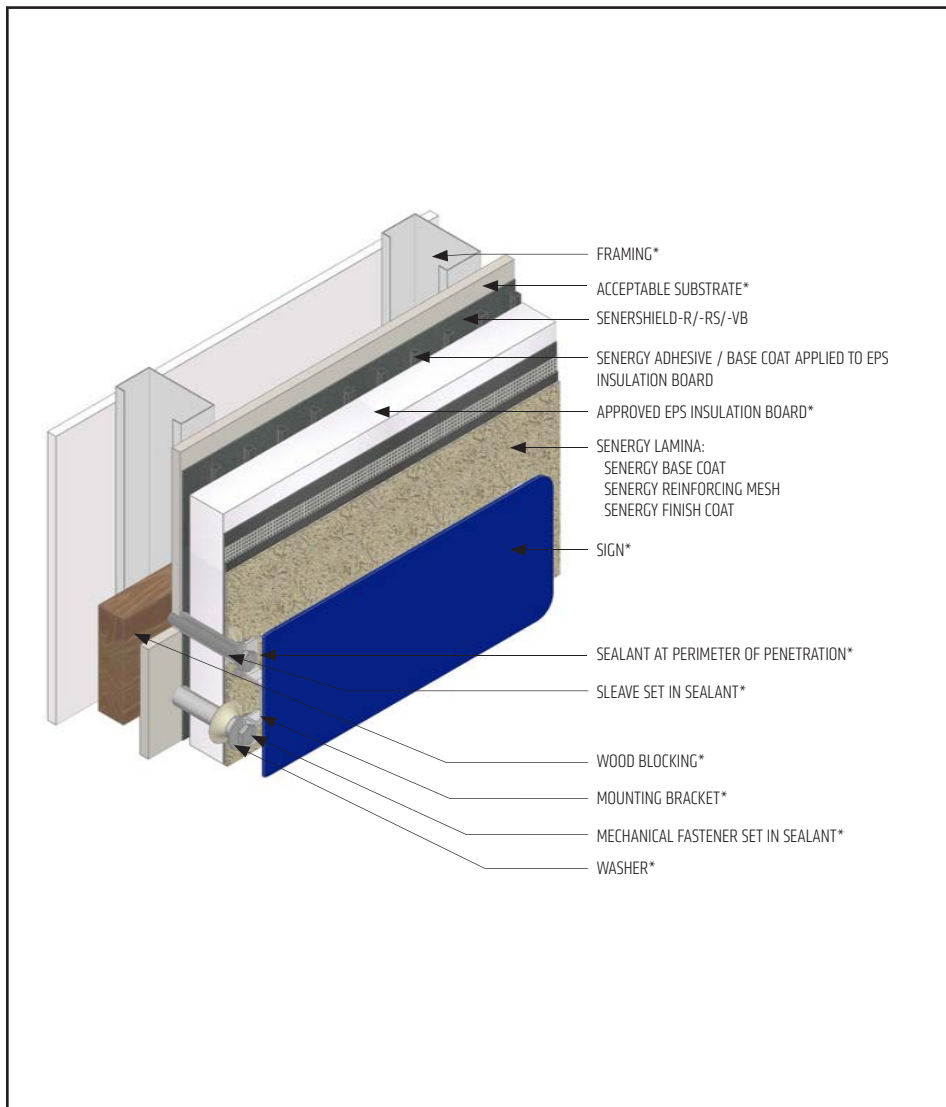
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure all penetrations into the system are properly sealed.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL SIGN ATTACHMENT



CAD-36 2401

(*NOTE: BY OTHERS)

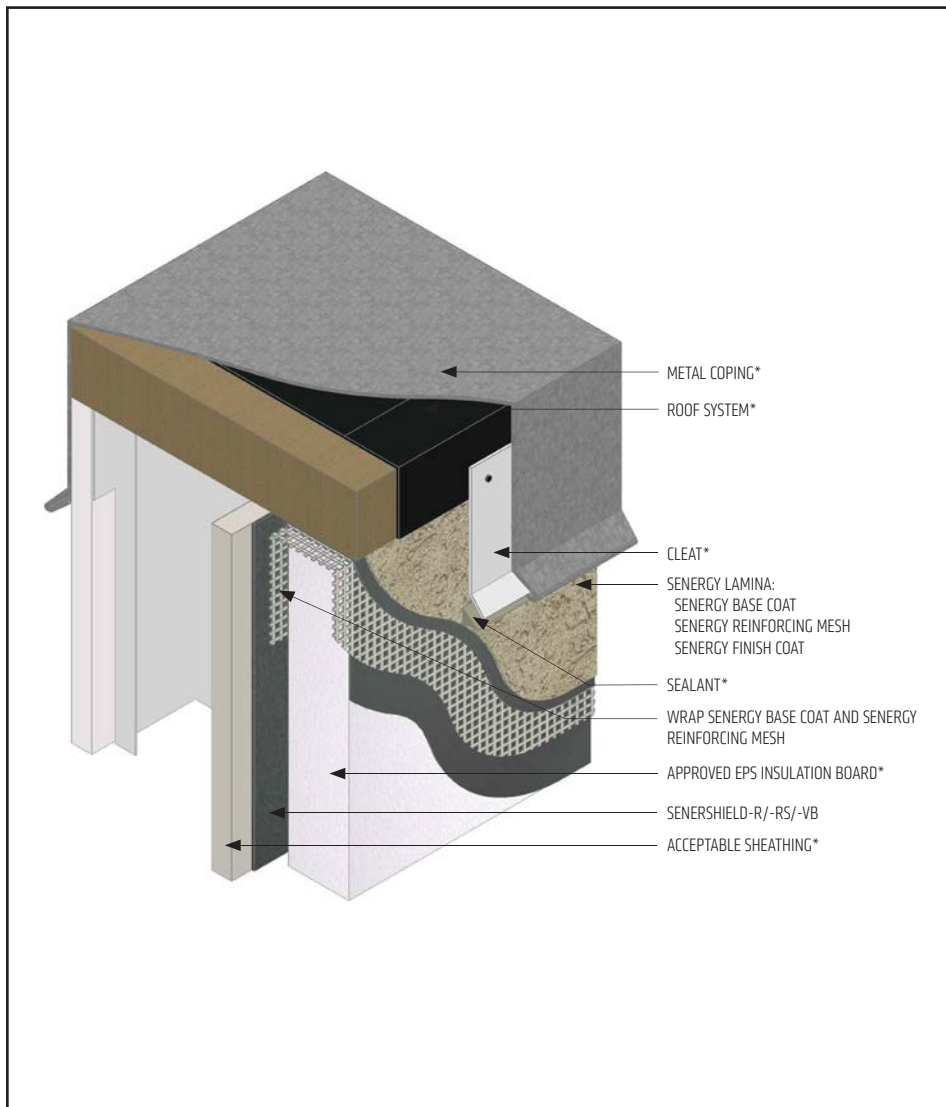
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure all penetrations into the system are properly sealed.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL COPING



CAD-37 2401

(*NOTE: BY OTHERS)

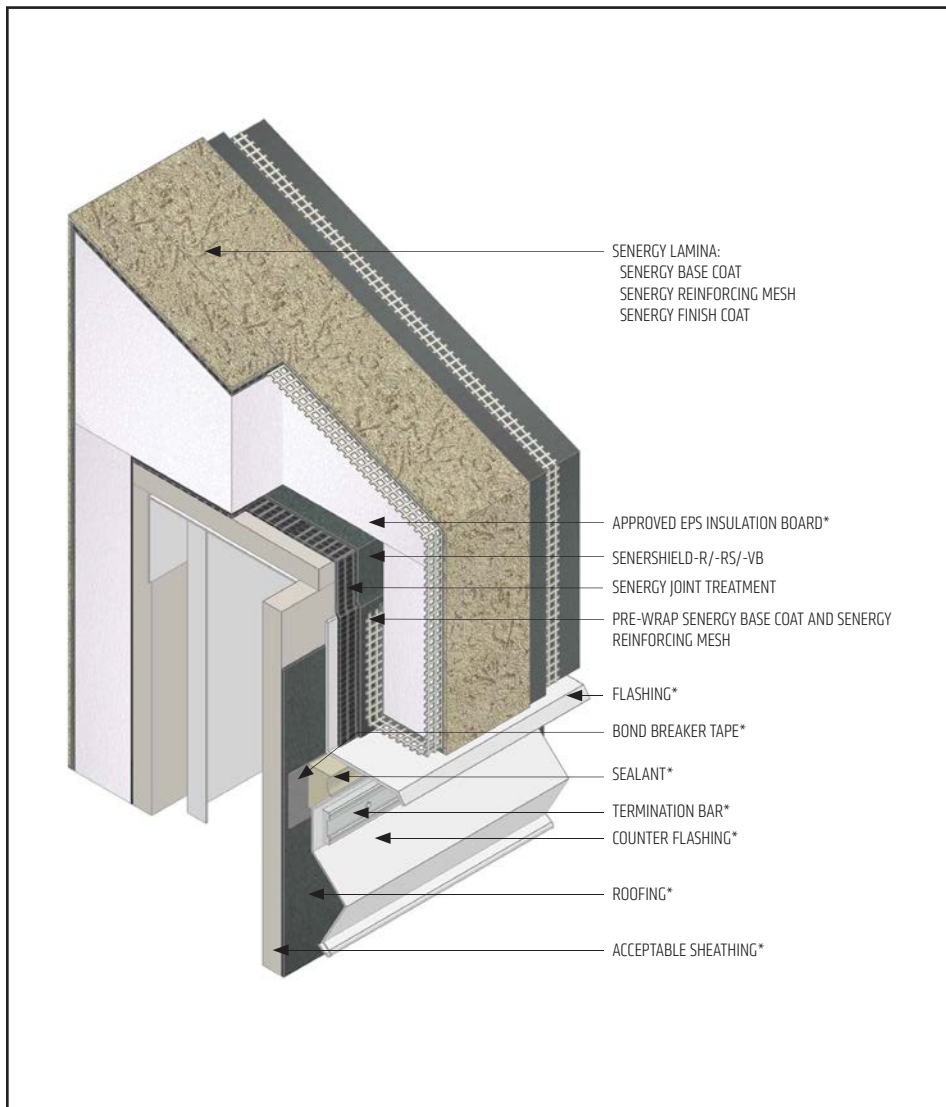
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure that metal coping/ flashing extends onto the system a minimum of 2" (50 mm) down the face.
- Extend Senershield-R/-RS/-VB or SikaWall MaxFlash onto bottom of blocking or provide alternate air seal at sheathing termination to blocking.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL WITH EPS PARAPET CAP



CAD-38 2401

(*NOTE: BY OTHERS)

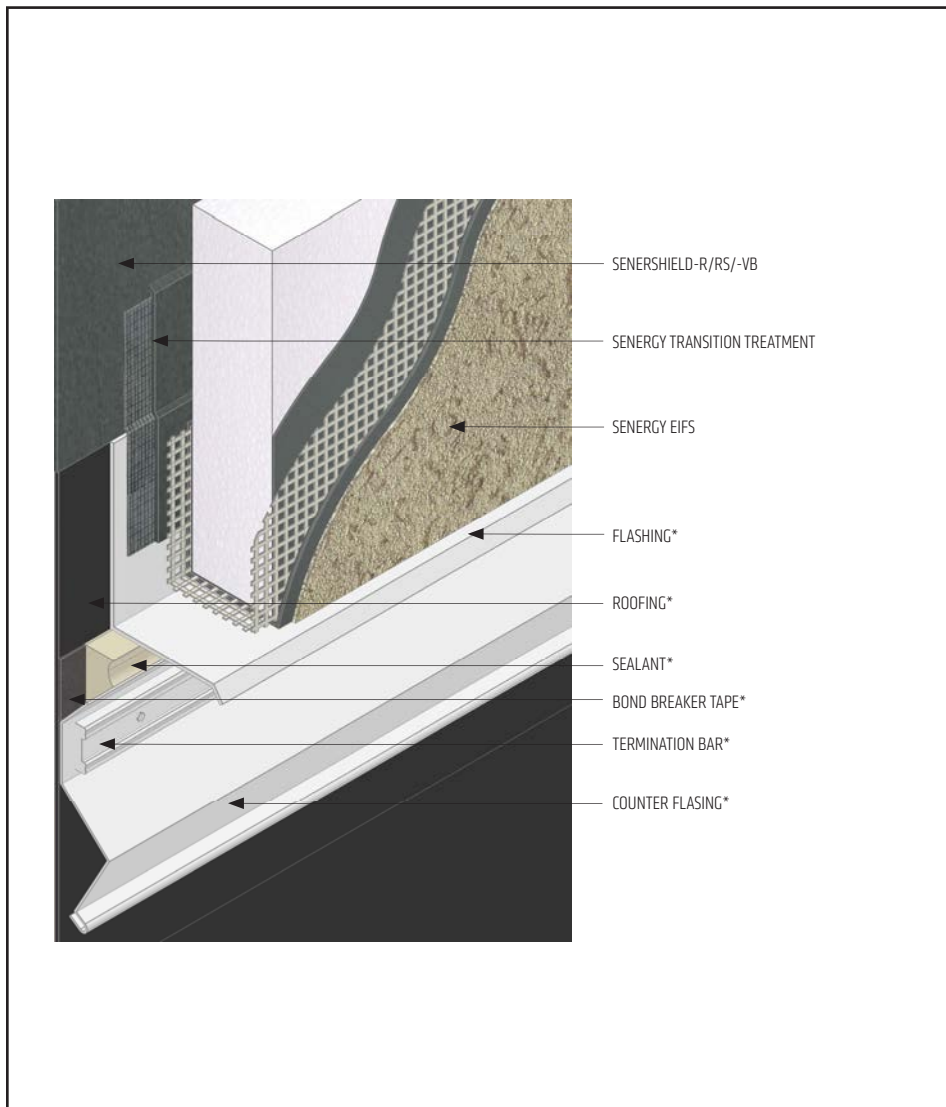
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Provide a minimum 6:12 slope for all horizontal surfaces. Senergy requires the use of a roofing system or metal cap flashing for sloped surfaces over 24" (610 mm).
- Additional layers of mesh reinforced base coat is recommended when sloped surfaces exceed 12" (305 mm).
- Ensure a means for drainage is provided at system termination.
- Terminate system a minimum of 8" (203 mm) above flat roof. Roofing material shall not extend above the flashing flange.
- Maintain a minimum 1" (25 mm) thick EPS insulation board.
- Senergy Joint Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL TERMINATION TO FLAT ROOF



CAD-39 2401

(*NOTE: BY OTHERS)

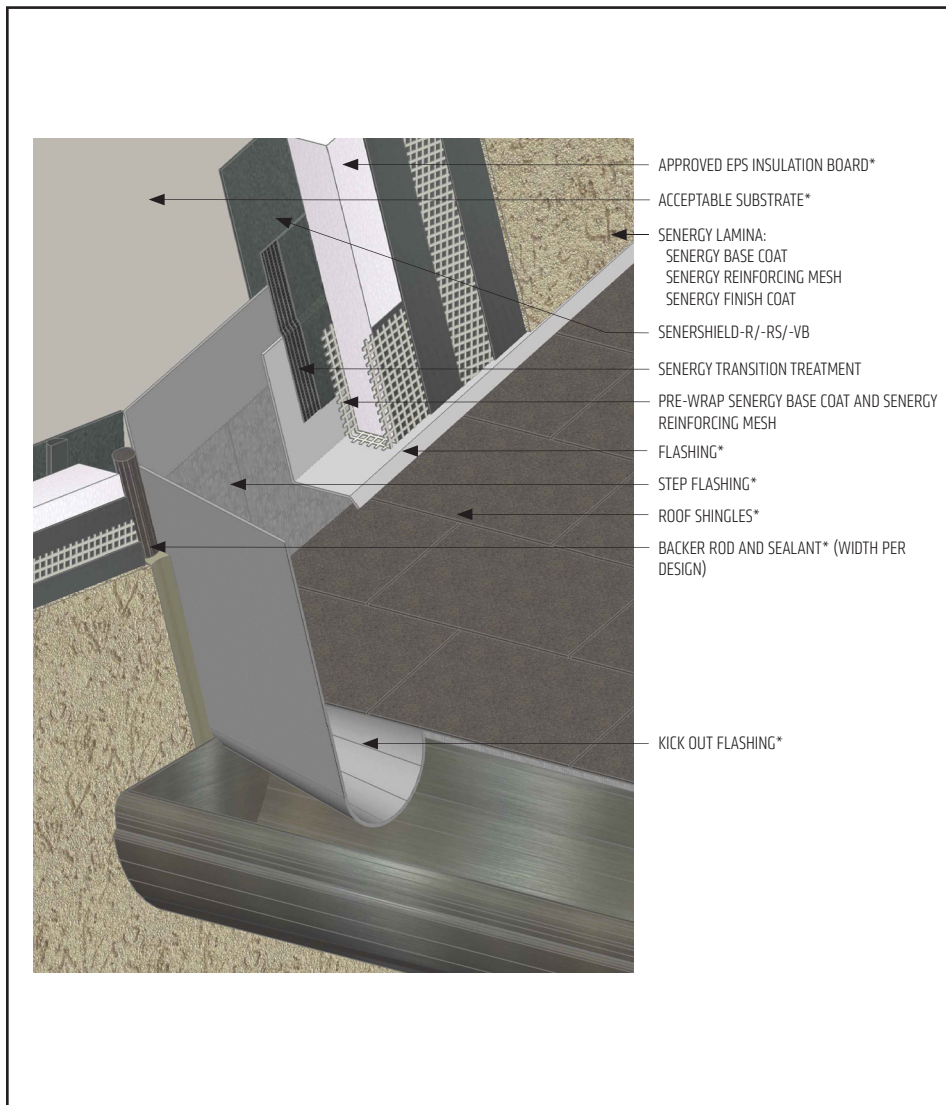
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination.
- Terminate system a minimum of 8" (203 mm) above flat roof. Roofing material shall not extend above the flashing flange.
- Ensure roofing material terminates behind flashing.

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Channeled Adhesive CI Design

TYPICAL KICK-OUT FLASHING AT SLOPED ROOF



CAD-40 2401

(*NOTE: BY OTHERS)

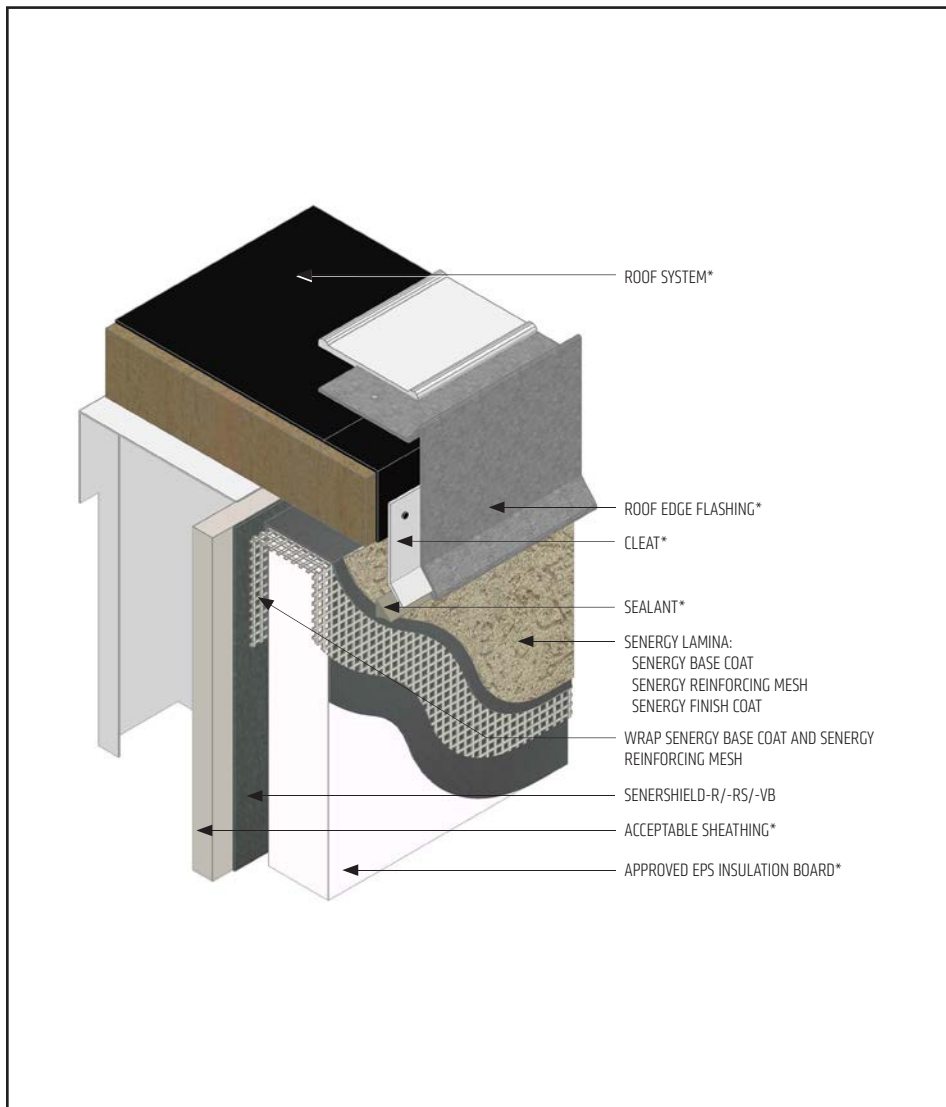
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at roof.
- Terminate system a minimum of 2" (50 mm) above sloped roof.
- Ensure step flashing is a minimum of 2" (50 mm) behind system.
- Kick-out flashing shall be a minimum of 4" (102 mm) in height.
- Do not apply finish to areas that will receive sealant.
- Senergy Transition Treatment Options: SikaWall MaxFlash, SikaWall Sheathing Fabric embedded in Senershield-R/-RS/-VB or SikaWall Flash Seal NP.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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Channeled Adhesive CI Design

TYPICAL ROOF EDGE FLASHING



CAD-41 2401

(*NOTE: BY OTHERS)

- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure that metal coping/flushing extends onto the system a minimum of 2" (50 mm) down the face.
- Extend Senersshield-R/-RS/-VB or SikaWall MaxFlash onto bottom of blocking or provide alternate air seal at sheathing termination to blocking.
- Reference *Acceptable Sealants for use with Senergy Wall Systems* Technical Bulletin for a list of sealants.

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BUILDING TRUST



LIMITED WARRANTY NOTICE

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com/senenergy or by calling our Technical Service Department at +1 (800) 589-1336.

Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at usa.sika.com.

For the most current version of this literature, please visit our website at usa.sika.com/senergy.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071 USA
Customer Service +1 (800) 433-9517
Technical Service +1 (800) 589-1336
usa.sika.com/senergy

Rev April 2024

BUILDING TRUST



PRODUCT DATA SHEET

Senersshield-R

Vapor Permeable Air/Water-Resistive Barrier Membrane

COLOR

Grey

PACKAGING

60 lbs per 5-gallon pail (27.2 kg per 19-liter pail).

COVERAGE PER PAIL*

ASTM C1177 TYPE SHEATHING

450 ft² (41 m²) at 10 mils WFT

CEMENT BOARD

500 ft² (46 m²) at 10 mils WFT

PLYWOOD

265 ft² (24 m²) at 20 mils WFT

ORIENTED STRAND BOARD (OSB)

265 ft² (24 m²) at 20 mils WFT

CONCRETE MASONRY UNITS (CMU)

Standard Weight 265 ft² (24 m²) at 20 mils WFT

Medium Weight 180 ft² (17 m²) at 20 mils WFT

Light Weight 125 ft² (12 m²) at 20 mils WFT

POURED CONCRETE

500 ft² (46 m²) at 10 mils WFT

EMBED SHEATHING FABRIC

SikaWall-75 Sheathing Fabric 4
630 ft (192 m)

SikaWall-75 Sheathing Fabric 6
420 ft (128 m)

SikaWall-75 Sheathing Fabric 9
280 ft (85 m)

* Roll or spray / backroll for optimum coverage rate. Other application methods may provide less coverage. Actual results may vary depending on surface porosity, roughness, moisture uptakes, type of OSB or other factors.

VOC

<0.41 lbs/gal or <50g/l less water and exempt solvents.

SHELF LIFE

Two (2) years, properly stored in original container.

DESCRIPTION

Senersshield®-R is a one-component, fluid-applied vapor permeable vertical above grade air/water-resistive barrier with built in, low temperature application properties. This resilient, waterproof coating may be applied directly to approved, above-grade wall strates by sprayer, roller, brush or trowel. It provides excellent secondary moisture protection behind most wall claddings including EIFS, stucco*, brick, siding and metal panels. Senersshield-R is listed in ICC ESR-1878 and ESR-2986.

* A slipsheet is required for stucco claddings.

USES

For use over the following exterior wall substrates:

Poured concrete/unit masonry, ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; scement-boards (ASTM C1325 Type A Exterior); including PermaBase™ cement-board, Untreated Exposure I or exterior plywood sheathing (grade C-D or better), Untreated Exposure I OSB, Zip Sheathing (sheathing only) Fire Treated wood sheathing: Pyro-Guard® and Dricon® plywood and FlameBlock® OSB; gypsum sheathing (ASTM C79/ASTM C1396).

ADVANTAGES

One continuous air/water-resistive barrier for buildings with multiple claddings (can be used with most code-compliant claddings).

ICC ESR-2986 evaluation report confirms compliance with IBC, IRC and IECC requirements.

Approved for projects requiring ABAA specifications and quality assurance.

<1% of allowable air leakage tested per ASTM E2357, easily meets air tightness requirements per ASHRAE 189.1 and 90.1 and ABAA.

Self sealing performance meets ASTM D1970 nail sealability requirements with and without Sheathing Fabric.

One component, easy to apply formulation that meets low VOC requirements in all 50 states.

Nonflammable as applied.

Will not dry out or crack due to loss of oil/plasticizer over time.

Cleans up with water; solvents and citrus based cleaners not required.

Low temperature application down to 25°F (-4°C).

Allows for flexible construction scheduling with an 180 day outdoor exposure rating.

TEST RESULTS

TEST	METHOD	CRITERIA	RESULTS
VOC content	ASTM D3960 (based in part on EPS method 24)	Report value	<0.41 lbs/gal or <50g/l less water and exempt solvents
Air Leakage of Air Barrier Assemblies	ASTM E2357	0.04 cfm/ft ² @ 1.57 psf (0.2 l/ (s.m ²) @75 Pa)	0.0001 cfm/ft ² @ 1.57 psf (0.0007 l/s.m ²) @ 75 Pa) positive / post conditioning 0.0003 cfm/ft ² @ 1.57 psf (0.0014 l/s.m ² @ 75 Pa) negative / post conditioning
Air Permeance of Building Materials	ASTM E2178	0.004 cfm/ft ² @ 1.57 psf (0.02 l/ (s.m ²) @75 Pa)	0.00098 cfm/ft ² @ 1.57 psf (0.0049 l/s.m ² @ 75 Pa)
Rate of Air Leakage	ASTM E283	Report value	0.0037 cfm/ft ² @ 1.57 psf (0.0185 l/s.m ² @ 75 Pa)
Water Vapor Transmission	ASTM E96 Method B	Report value	18 Perms (grains/Hr. in Hg. ft ²) @ 10 mils wet film thickness 14 Perms (grains/Hr. in Hg. ft ²) @ 20 mils wet film thickness
Pull-Off Strength of Coatings	ASTM D4541	Min.15.9 psi (110 kPa) or substrate failure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood; pvc and galvanized flashing
Nail Sealability (without Sheathing Fabric)	ASTM D1970	No water penetration at galvanized roofing nail penetration under 5" 9127 mm) head of water after 3 days at 40°F (4°C)	Pass
Surface Burning	ASTM E84	Flame Spread < 25 Smoke Development < 450	Meets Class A: Flame spread = 15 Smoke developed = 95
Radiant Heat Multi-Story Tests	NFPA 268 NFPA 285	No increase in fire hazard	Pass using many wall designs; including Senergy EIFS cladding with 12" EPS insulation Reference technical bulletin NFPA 285 Compliant Wall Systems and Assemblies
Water-resistive barrier coatings used under EIFS	ASTM E2570		Pass (Meets all criteria in the standard)
Compound Stability (Elevated Temperature)	ASTM D5147 Section 15		No flowing, dripping, or drop formation up to 350°F (177°C)
Fire Resistance	ASTM E119/UL 263	Maintain fire resistance of existing rated assembly	Will not add or detract from the rating of a fire resistive wall assembly
Drainage Efficiency	ASTM E 2273	90% Minimum	99%
% Solids	Lab method	Report value	74%

ICC-ES AC 212 Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing: 1. Structural 2. Racking 3. Restrained Environmental Conditioning 4. Water Penetration	1. ASTM E 1233 Procedure A 2. ASTM E 72 3. ICC-ES AC-212 4. ASTM E 331	No cracking at joints or interface of flashing No water penetration after 15 min @ 2.86 psf (137 Pa)	Pass - Tested over OSB and gypsum sheathing No water penetration after 90 min @ 6.24 psf (299 Pa)
Sequential Testing - Weathering 1. UV Light Exposure 2. Accelerated Aging 3. Hydrostatic Pressure Test	1. ICC-ES AC-212 2. ICC-ES AC-212 3. AATCC 127-1985	No cracking or bond failure to substrate No water penetration after 21.7 in (550 mm) water for 5 hours	Pass
Freeze-Thaw	ASTM E 2485 (Method B)	No sign of deleterious effects after 10 cycles	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Water Resistance	ASTM D2247	No deleterious effects after 14-day exposure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Tensile Bond	ASTM C 297	Minimum 15 psi (103 kPa)	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood, CMU; pvc and galvanized flashing
Tensile Bond (after freeze-thaw)	ASTM C 297	Minimum 15 psi (103 kPa) avg; no failure after 10 cycles freeze-thaw	Pass (Tested over various substrates)

ICC-ES AC 148 Acceptance Criteria for Flexible Flashing Materials

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing - Weathering 1. UV Light Exposure 2. Accelerated Aging 3. Hydrostatic Pressure Test	1. ICC-ES AC 148 2. ICC-ES AC 148 3. AATCC 127-1985	No cracking or bond failure to substrate No water penetration after 21.7 in (550 mm) water for 5 hours	Pass
Peel Adhesion	ASTM D 3330 Method F	After UV Exposure After Accelerated Aging After Elevated Temperature Exposure After Water Immersion	Pass - tested over ASTM C1177 glass-mat sheathing, OSB, plywood, PVC and uncoated aluminum
Nail Sealability after Thermal Cycling	ASTM D 1970 (Modified), AAMA 711	No water penetration at galvanized roofing nail penetration under 1.2" (31 mm) head of water after 24 hours at 40°F (4°C)	Pass
Tensile Strength after UV Exposure	ASTM D 5034, AAMA 711	Minimum 20 lbs./in (3.5 N/mm)	Pass
Cold Temperature Pliability	ASTM D 1970, AAMA 711	No cracking after bending around a 1" (25 mm) mandrel after 2-hour exposure to 0°F (-18°C)	Pass
Resistance to Peeling	AAMA 711	No signs of distress or failure after 24 hours of exposure at room temperature, 122°F (50°C), 149°F (65°C), 176°F (80°C)	Pass

CCMC Tech Guide 07240 and CAN/ULC-S716.1	
Joint Disruption Resistance	No cracking, delamination or other deleterious effects at L/180 deflection.
Joint Relaxation Resistance	Pass Max water transmission rate. $2 \times 10^{-7} \text{ kg/m}^2 \cdot \text{s}$ ($4.1 \times 10^{-8} \text{ lbs/ft}^2 \cdot \text{s}$) after extension and environmental cycling.
Adhesive/Cohesive Bond	Pass Min 0.3 MPa (43.5 psi) in dry state, 0.1 MPa (14.5 psi) after 48 hour water immersion.
Nail Popping Resistance	No cracking or delamination around nail head following 1 mm (0.04") protrusion.
Water Absorption	Pass Maximum $0.004 \text{ kg/m}^2 \cdot \text{s}$ ($0.0008 \text{ lbs/ft}^2 \cdot \text{s}$).
Accelerated Weather Resistance	No visible effects (cracking, flaking, other deleterious effects) after 334 total hours.

PRODUCT CONSIDERATIONS AND JOB CONDITIONS

- Expect extended dry time for cold temperature application less than 40°F (4°C) down to 25°F (-4°C). Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).
- Walls should be capped to prevent moisture and precipitation from entering wall during construction.
- Dry/cure times of adhered EPS insulation board installed over Senershield-R may be prolonged, particularly in cool and/or damp weather. Non-cementitious adhesives are not recommended for EPS insulation board attachment to Senershield-R. Proper application is the responsibility of the user.
- A minimum of two 10-mil wet coats of Senershield-R is required over OSB, plywood and CMU. Senershield-R may be sprayed to a 20-mil thickness over OSB, plywood and CMU in one wet application. Backrolling may be needed to produce a pinhole-free film.
- Punched studs in rough openings must be treated with SikaWall®-85 Flash Seal NP flashing membrane.
- Ensure all fasteners are spotted with Senershield-R or SikaWall-80 MaxFlash.
- Prior to application of claddings, visually inspect the Senershield-R for voids, pinholes, surface deficiencies, etc. Repair deficiencies and areas that are not intact. Apply additional Senershield-R as necessary, such that

the barrier is free of voids, pinholes, etc. All sheathing joints, terminations, inside and outside corners must be reinforced with Sheathing Fabric embedded in Senershield-R, MaxFlash or Flash Seal NP.

- Treat expansion joints with Flash Seal NP flashing membrane, provide sufficient slack in Flash Seal NP at joint to allow for movement.

SURFACE PREPARATION

- An acceptable substrate (see list above) should be used and installed per substrate manufacturer's instructions and local code requirements.
- Substrate shall be dry, clean, sound and free of release agents, paint/coatings, other residue or other deleterious conditions before application of cladding. Verify substrate is flat, free of fins or planar irregularities greater than ¼" in 10' (6.4 mm in 3 m). Unsatisfactory conditions shall be reported to the general contractor and corrected before application of Senershield-R and claddings.

EQUIPMENT

- For roller application, use a ¾" (20mm) nap roller. Prewet the synthetic roller pad with water and spin out the excess. The prewetting only needs to be done once, at the start of application.
- For spraying application instructions and equipment reference Spray Application technical bulletin.

MIXING

- Use directly from original packaging or prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product.
- Mix Senershield-R with a clean, rust-free paddle and drill until thoroughly blended. Dilution of Senershield-R is not recommended.
- Additives are not permitted.
- Close container when not in use.
- Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

APPLICATION

FLASHING ROUGH OPENINGS

Using MaxFlash

- Apply a bead of MaxFlash in each corner of the rough opening, ensuring that corners are fully sealed. Where wood bucks are used, apply a bead of MaxFlash into gaps between bucks and between the buck and building structure.
- Apply additional MaxFlash in a zigzag pattern onto head, sill, jambs and exterior substrate. Spread MaxFlash evenly across the rough opening to form a uniform, continuous, void and pinhole-free membrane with a 12-20 mil thickness. Extend MaxFlash at a minimum 4" onto the exterior wall, maintaining 12 to 20-mil thickness.
- Allow MaxFlash to skin before applying Senershield-R to sheathing. Lap the air/water-resistive barrier

a minimum of 2" onto MaxFlash, creating a continuous, monolithic air/water-resistive barrier membrane.

4. Allow MaxFlash to cure prior to the installation of windows, doors and other wall assemblies.

Using Sheathing Fabric

1. Cut Sheathing Fabric to desired size. Apply a generous amount of mixed Senershield-R receiving coat across rough opening and out onto the substrate. Immediately embed Sheathing Fabric, ensure complete saturation. An additional coat of Senershield-R may be necessary to ensure a complete, void and pinhole-free membrane.
2. Extend Sheathing Fabric a minimum 2" onto the exterior wall. Reference Senershield-R published details for step by step application details.

SHEATHING JOINT REINFORCEMENT

Using MaxFlash

Apply a thick bead of MaxFlash to sheathing joints, inside and outside corners as well as knot holes and check cracks that may exist in plywood or OSB. Spread evenly a minimum of 1" beyond the joint on either side, maintaining 20-mils across the sheathing joint. Allow MaxFlash to skin before applying Senershield-R to sheathing. See the MaxFlash product bulletin for coverages and additional product highlights.

Note: MaxFlash can be used to treat sheathing joints up to ½" wide, not for use in expansion joints.

Using Sheathing Fabric

1. Precoat sheathing joints, inside and outside corners as well as knot holes and check cracks that may exist in plywood or OSB with mixed Senershield-R.
2. Immediately place and center Sheathing Fabric over wet Senershield-R. Ensure Sheathing Fabric extends evenly on both sides of the sheathing joint. Completely saturate Sheathing Fabric with Senershield-R.

3. Lap Sheathing Fabric 2 ½" (63.5 mm) minimum at intersections.

4. If using roller or brush application, allow to dry to the touch before applying Senershield-R to entire wall surface. If spraying, "wet on wet" application is acceptable.

Note: Sheathing Fabric can be used to treat sheathing joints up to ¼" wide, not for use in expansion joints

SENERSHIELD-R APPLICATION OVER ACCEPTABLE SUBSTRATES

For concrete, glass-mat sheathing (C1177), cement board (ASTM C1325 Type A Exterior), and gypsum sheathing (ASTM C79/ ASTM C1396); apply with roller, brush, stainless steel trowel or spray gun to a consistent, minimum 10 wet mil thickness that is free of voids and pin holes. If rolling, a fully loaded roller pad is required to obtain a consistent, minimum 10 wet mil thickness.

Note: Refer to Spray Application technical bulletin for spray application equipment and application instructions.

For plywood, OSB or CMU substrate(s); apply with ¾" (20 mm) nap roller a consistent, minimum 10 wet mil thickness. Prior to application of the second coat, visually inspect to assure sheathing surface is blister free and coating is free of voids and pinholes. Repair if needed and then apply a second coat after the initial coating is sufficiently dry.

Note: A minimum of two (2) 10-mil wet coats of Senershield-R are required over OSB, plywood and CMU.

Applying with spray equipment, Senershield-R may be sprayed to a 20-mil thickness over CMU, OSB and plywood in one wet application. Backrolling may be needed to produce a pinhole-free film.

Note: Refer to Spray Application technical bulletin for spray application equipment and application instructions. Verify thickness using a wet film mil gauge.

COLD TEMPERATURE APPLICATION LESS THAN 40°F (4°C) DOWN TO 25°F (-4°C).

- Precondition material to a minimum 65°F (18°C).
- Substrate and ambient temperature must be 25°F (-4°C) and rising. Do not apply if temperature below 25°F (-4°C) is expected at any time during the application or drying period. Substrate surface must be frost free and remain dry.
- Install material in dry weather and protect from rain and temperatures below 25°F (-4°C) for a minimum of 24 hours and until dry. Actual drying time will vary depending on ambient and substrate temperature, humidity and the ability of the substrate to absorb water. Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).

DRYING TIME

40°F (4°C) and rising; allow to dry completely, typically 2-10 hours before proceeding with cladding installation.

40°F (4°C) down to 25°F (-4°C); when applied at a 10-mil wet film thickness, typically dry in approximately 12 hours at 32°F (0°C) and 50% relative humidity (RH). When applied at a 20-mil thickness (single pass spray), typically dry in approximately 18 hours at 32°F (0°C) and 50% (RH). Allow to dry completely prior to proceeding with cladding installation.

Note: Actual drying time will vary depending on ambient and substrate temperature, humidity and the ability of the substrate to absorb water. Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C) and below 120°F (49°C). Protect from extreme heat and direct sun.
- Do not stack pallets.

LIMITATIONS

- Limit the weather exposure of Senershield-R to a maximum of 180 days. If exposure limits are exceeded, clean and recoat with Senershield-R.
- Do not use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
- Do not apply in ambient temperatures below 25°F (-4°C) or onto substrates below 25°F (-4°C). Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
- Ensure wood sheathings and lumber including fire and pressure treated are dry throughout the thickness of the material and free of any bond inhibiting materials prior to application of Senershield-R.
- Senershield-R is designed as a positive side water barrier and does not function as a negative side barrier product.

TECHNICAL SUPPORT

Consult Sika Facades Technical Services Department at **+1 (800) 589-1336** for specific recommendations concerning all other applications. Consult the Sika Facades website at **usa.sika.com/senergy**, for additional information about products and systems and for updated literature.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting **usa.sika.com/senergy**, e-mailing your request to **mbsbscst@mbcc-group.com** or calling **+1 (800) 433- 9517**. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

LIMITED WARRANTY NOTICE

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at **usa.sika.com/senergy** or by calling our Technical Service Department at **+1 (800) 589-1336**.

Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at **usa.sika.com** or by calling **+1 (800) 589-1336**.

PRODUCT DATA SHEET

Alpha Base Coat

100% acrylic adhesive and base coat

COLOR

Off white prior to addition of Portland

PACKAGING

60 lbs per 5-gallon pail
27.2 kg per 19-liter pail

COVERAGE PER PAIL

Adhesive

Notch Trowel: 160 ft² (14.8 m²)

Mesh Embedment

Senergy Flexguard 4: 280 ft² (26 m²)

SikaWall®-9000 Intermediate 12: 200 ft² (18.5 m²)

SikaWall-9015 Ultra Hi 20 & Flexguard 4: 120 ft² (11 m²)

Adhesive & Flexguard 4

Embedment:

120 ft² (11 m²)

*Coverage rates vary depending on porosity of substrates and application techniques.

VOC

0 g/l less water and exempt solvents.

SHELF LIFE

Two (2) years, properly stored in original containers.

DESCRIPTION

Alpha Base Coat is a 100% acrylic adhesive and base coat that is field-mixed with Type I or Type II Portland cement. It has a very creamy texture that spreads easily.

USES

1. To adhere expanded polystyrene insulation board to the following acceptable substrates: Senersshield-R/-RS/-VB; expanded polystyrene insulation board (EPS); PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; gypsum sheathing (ASTM C79/C1396); Exposure 1* or exterior plywood* (Grade C/D or better), Exposure 1 OSB*
***Note: Not for use directly over wood-based sheathing, Senersshield-R/-RS/-VB required over wood sheathing.**
2. For reinforcing mesh embedment as part of Senergy and as a skim coat over masonry and concrete above grade substrates.

ADVANTAGES

Smooth, creamy consistency.

Familiar 1:1 mixing ratio making it easy to mix providing less chance for error.

100% Acrylic.

Water based.

Trowels on easily, speeds mesh embedment, reduces applicator arm fatigue, increases job-site productivity.

Provides long-term durability.

Safe, non-toxic and cleans up easily with soap and water.

TEST RESULTS

TEST	METHOD	CRITERIA	RESULT
VOC	ASTM D3960 (based in part on EPA method 24)	Report Value	0 grams per liter less water and exempt solvents
Accelerated Weathering	ASTM G 23	No deleterious effects after 2000 hours.	Pass
Accelerated Weathering	ASTM G 53	No deleterious effects after 7500 hours.	Pass
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass
Water Vapor Transmission	ASTM E96 Method B	Report Value	Alpha Base Coat with Flexguard 4 and Senerflex Finish: 15.1 Perms
Surface Burning Characteristics	ASTM E 84	Report Value	Flame Spread < 25 Smoke Development < 450 (Class A)
Tensile Bond	ASTM C297, E2134	15 psi minimum	> 15 psi

MIXING

In a clean container, mix the contents of the Alpha Base Coat pail with a low speed drill and paddle mixer until thoroughly blended. Mix one-part (by weight) Portland cement with one-part Alpha Base Coat. Add Portland cement in small increments, thoroughly mixing to a homogeneous consistency after each additional increment. Allow base coat to set for 5 -10 minutes, then remix/retemper before use. Small amount of water can be added to adjust workability

- Do not use a container which has contained or been cleaned with a petroleum-based product.
- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.
- If Type 1-L Portland is used, contact Sika Facades Technical Service for approval.

SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and bond inhibiting coatings. Use SikaWall-20 Surface Stabilizer WB for chalky or previously painted concrete and masonry surfaces prior to application of basecoat.

- Concrete: allow to cure a minimum of 28 days prior to application of base coat.
- Unit Masonry: allow to cure prior to application of base coat.
- Stucco: allow to cure a minimum of 6 days prior to application of base coat.

APPLICATION

ADHESIVE FOR NON-DRAINAGE EIFS/EPS TO EPS

Notched trowel method: Apply base coat to entire surface of insulation board using a stainless steel trowel with 1/2" x 1/2" notches spaced 1/2" apart (13 mm x 13 mm x 13 mm) or 3/8" x 3/8" notches spaced 3/8" apart (10 mm x 10 mm x 10 mm).

ADHESIVE FOR ADHERED SENERGY DRAINAGE EIFS

Apply base coat to entire surface of insulation board using a stainless-steel trowel with 1/2"x 1/2" notches spaced 2" apart (13 mm x 13 mm x 50 mm). Ribbons of adhesive must be applied parallel to the 2' dimension of the EPS insulation board to ensure they are vertical when the EPS insulation board is applied to the substrate. Immediately set board into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not slide board into place.

Do not allow base coat to dry prior to installing. Allow application of EPS insulation board to dry (normally 8 to 10 hours) prior to application of Alpha Base Coat/Reinforcing Mesh.

BASE COAT FOR REINFORCING MESH EMBEDMENT

Trowel apply base coat to the surface of the insulation board or approved substrate. Fully embed reinforcing mesh in to wet base coat, ensure no mesh color is visible. Lap reinforcing mesh a minimum 2 1/2" (64 mm) at edges and 8" (203 mm) around corners. Ensure reinforcing mesh is free of wrinkles. Allow reinforced base coat to dry hard (normally 8 to 10 hours) prior to application of Senergy Finish or SikaWall-15 Tinted Primer.

DRY TIME

Typically, 8 to 10 hours. Protect from rain and from temperatures less than 40°F (4°C) for 24 hours after installation and until dry.

LIMITATIONS

1. Not for use directly over wood-based substrates.
2. Do not exceed applied thickness of 1/8" (3.2mm).
3. Use Type I or II Portland cement, if Type 1-L is intended to be used

contact Sika Facades Technical Service for approval.

4. Protect from rain and from temperatures less than 40°F (4°C) for a minimum of 24 hours and until dry.
5. Efflorescence of Portland cement-based substrates such as concrete, masonry units and stucco may cause staining or discoloration on the surface of applied base coat.
6. When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
7. Do not apply materials to frozen surfaces.
8. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C).
- Do not stack pallets.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting usa.sika.com/senergy, e-mailing your request to mbsbscst@mbcc-group.com or calling +1 (800) 433- 9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

TECHNICAL SUPPORT

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR

FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/> or by calling **+1 (800) 589-1336**.

PRODUCT DATA SHEET

Reinforcing Mesh

Balanced, open-weave glass fiber reinforcing mesh

COLOR

White

PACKAGING

Senergy Flexguard 4

4 rolls/case

15 cases/pallet

SikaWall-9000 Intermediate 6

4 rolls/case

12 cases/pallet

SikaWall-9000 Intermediate 12

2 rolls/case

18 cases/pallet

SikaWall-9000 Strong 15

2 rolls/case

18 cases/pallet

SikaWall-9015 Ultra HI 20

1 roll/case

20 cases/pallet

SikaWall-9030 Self Adhering Mesh Tape

4" -36 rolls/case

9" 16 rolls/case

SHELF LIFE

Two (2) years when unopened and stored as directed.

DESCRIPTION

Balanced, open-weave glass fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Senergy Base Coats. A variety of reinforcing mesh types are available to meet the different requirements of impact resistance at specific wall locations. SikaWall®-9030 Self Adhering Mesh Tape, in addition to having the same properties as described above, is coated with a pressure sensitive adhesive.

USES

1. For use with all Senergy EIFS, Senergy Surfacing Systems and Cement Board Stucco Systems and EPS shapes.
2. SikaWall-9030 Self Adhering Mesh Tape for use with base coat as reinforcement over cement board joints and at terminations with Senergy Cement Board Systems only.

ADVANTAGES

Alkali resistance, compatibility with all Senergy base coats; maintains tensile strength and flexibility for long-term durability; all glass fiber reinforcing mesh complies with ASTM E2098.

Coverage

PRODUCT	WEIGHT	ROLL WIDTH	ROLL LENGTH	COVERAGE	
Senergy Flexguard 4	4.2 oz.	38"	150'	475 ft ²	44 m ²
Senergy Flexguard 4	4.2 oz.	48"	150'	600 ft ²	56 m ²
Senergy Flexguard 4	4.2 oz.	72"	150'	900 ft ²	84 m ²
SikaWall-9020 Detail Backwrap Mesh	4.2 oz.	9" Starter Roll	150'	112.5 sf	10.5 m ²
SikaWall-9000 Intermediate 6	5.6 oz.	38"	150'	475 ft ²	44 m ²
SikaWall-9000 Intermediate 12	11 oz.	38"	75'	237.5 ft ²	22 m ²
SikaWall 9000 Strong 15	15 oz.	38"	75'	237.5 ft ²	22 m ²
SikaWall-9015 Ultra HI 20	20 oz.	39"	75'	244 ft ²	22.6 m ²
SikaWall-90 Corner Mesh	9 oz.	9"	150'	112.5 ft ²	105 m ²
SikaWall-9030 Self Adhering Mesh Tape	5 oz.	4"	150'	50 ft ²	4 m ²
SikaWall-9030 Self Adhering Mesh Tape	5 oz.	9"	150'	112.5 ft ²	105 m ²

TECHNICAL DATA

Testing

TEST	METHOD	CRITERIA	RESULT
Alkali Resistance of Reinforcing Mesh	ASTM E 2098	Greater than 120 pli (21 dN/CM) retained tensile strength	Pass (all mesh)
Dade County Impact Test	Protocol 201	Large & Small Missile	Passed with various wall assemblies
Flexguard 4 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	25-49 inch-lbs. (2.8-5.6 j)	Pass
Intermediate 6 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	25-49 inch-lbs. (2.8-5.6 j)	Pass
Intermediate 12 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	50-89 inch-lbs. (5.7-10.1 j)	Pass
Intermediate 12 & Flexguard 4 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	90-150 inch-lbs. (10.2-17.0 j)	Pass
Strong 15 & Flexguard 4 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	150 inch-lbs. (17 j)	Pass
Ultra HI 20 & Flexguard 4 – Impact Resistance	ASTM E2486 (formerly EIMA 101.86)	150 inch-lbs. (17 j)	Pass

FLEXGUARD 4 AND INTERMEDIATE 6

A single-layer application of provides reinforcement for wall system areas not expected to receive abnormal abuse or traffic. Used for rigid insulation back-wrapping.

INTERMEDIATE 12

A versatile, intermediate weight mesh. While capable of being used for a complete single-layer application, Intermediate 12 is often used in conjunction with Flexguard 4 or Intermediate 6 to offer added impact resistance at specific areas such as around doors or walkways.

STRONG 15

A medium/heavy-weight mesh intended for areas expected to receive traffic and abuse. It requires a continuous and lapped overlay of Flexguard 4 or Intermediate 6.

ULTRA HI 20

A heavy-weight mesh intended for areas expected to receive a high degree of traffic and abuse. It requires a continuous and lapped overlay of Flexguard 4 or Intermediate 6.

CORNER MESH

An intermediate-weight mesh, for use at exterior corners when added impact

resistance or clean, crisp corners are desired. Mesh is pre-marked for easy bending. An overlay of Flexguard 4, Intermediate 6 or 12 is required.

SELF-ADHERING MESH TAPE

A standard weight mesh coated with a pressure sensitive adhesive for use with base coat as reinforcement over sheathing joints and at terminations. For use with Senergy Cement Board Stucco Systems only.

APPLICATION

CORNER MESH:

Install Corner Mesh at exterior corners. Apply mixed Base Coat to insulation board at outside corners. Immediately embed the Corner Mesh into the base coat by troweling from the corner; butt edges and avoid wrinkles. After base coat is dry and hard, apply a layer of Flexguard 4, Intermediate 6 or 12 Reinforcing Mesh over the entire surface of the Corner Mesh.

FLEXGUARD 4, INTERMEDIATE 6 AND 12 REINFORCING MESHES:

Fully embed clean mesh into wet base coat and smooth with a trowel to achieve mesh embedment with no mesh color visible. Double layers of

Flexguard 4 and Intermediate 6 mesh must be applied at all inside and outside corners. Window corners also require secondary reinforcement as per details. Lap Reinforcing Mesh 2 1/2" (64 mm) minimum at edges.

STRONG 15 AND ULTRA HI 20 REINFORCING MESHES:

Embed Strong 15 or Ultra HI 20 reinforcing mesh in wet base coat by troweling from the center to the edges. Butt Strong 15 or Ultra HI 20 reinforcing mesh at all adjoining edges and at edge of Corner Mesh, do not use to backwrap or bend around corners. Ensure reinforcing mesh is free of wrinkles and embedded in base coat so that no reinforcing mesh color is visible. After base coat with embedded reinforcing mesh is dry and hard (normally 8 to 10 hours), apply a layer of Flexguard 4 or Intermediate 6 Reinforcing Mesh over the entire surface to achieve total nominal base coat/reinforcing mesh thickness of 3/32" (2.4 mm).

SELF-ADHERING MESH TAPE:

Self Adhering Mesh Tape may be applied direct from the roll. Center the Self Adhering Mesh Tape over all cement board joints and terminations and

firmly press while unrolling. Ensure it is continuous, void of wrinkles. Overlap mesh tape a minimum 2 1/2" (65 mm). Apply mixed Senergy base coat to surface of Self-Adhering Mesh Tape by troweling from the center to the edges. Allow base coat and Self-Adhering Mesh Tape to dry prior to application of Senergy or SikaWall reinforcing mesh and base coat. Apply in temperatures of 40°F (4°C) and higher.

SHIPPING AND STORAGE

1. Protect products during transportation and installation to avoid physical damage.
2. Store products in a cool, dry place protected from exposure to moisture.

TECHNICAL SUPPORT

Consult Sika Facades, Technical Services Department at **+1 (800) 589-1336** for specific recommendations concerning all other applications. Consult the Sika Facades website at usa.sika.com/senergy, for additional information about products and systems and for updated literature.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting usa.sika.com/senergy, e-mailing your request to mbsbscst@mbcc-group.com or calling **+1 (800) 433- 9517**. Use only as directed.

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at usa.sika.com.

PRODUCT DATA SHEET

SikaWall®-15 Tinted Primer

100% ACRYLIC-BASED PRIMER

PRODUCT DESCRIPTION

A 100% acrylic-based primer for use with Sika Facades textured finishes to help alleviate substrate read through, aids with color uniformity and finish shadowing.

USES

SikaWall Tinted Primer is used when preparing Sika Facades systems and substrates such as poured concrete, unit masonry, veneer plaster, or gypsum wall board (interior only) prior to application of Sika Facades finish. SikaWall Tinted Primer color should closely match the color of the selected finish.

CHARACTERISTICS / ADVANTAGES

- Reduced suction by cement base coats and cementitious substrates to improve workability of finish application.
- Creates better final appearance, alleviates shadowing of light-colored, rilled finishes.
- Reduces potential of efflorescence in stucco and other cementitious substrates.

PRODUCT INFORMATION

Packaging	5 gallon pail (19 liters)	
Color	Available in standard and custom colors. Point of Sale Tinting: the maximum pigment load should not exceed 50% of the equivalent finish formula.	
Shelf Life	Two (2) years when properly stored in the original container.	
Storage Conditions	▪ Store in a cool, dry place protected from freezing, extreme heat and direct sun. ▪ Store at no less than 40°F (4°C). ▪ Do not stack pallets.	
Volatile organic compound (VOC) content	ASTM D3960 (based in part on EPA Method 24)	<100 g/L less water and exempt solvents.
Coverage	750-1,250 ft ² (70-116 m ²) per pail. Coverage may vary depending on the texture, porosity and color of the existing substrate.	

Ambient Air Temperature

- When temperatures less than 40°F (4.5°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry.
- Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).

Substrates

- Sika Facades Base Coat
- Stucco
- SikaWall-525 Stucco Surface Leveler
- Concrete
- Unit Masonry
- Gypsum Wall Board (interior only)

Drying Time

- Under average conditions of 70 °F (21 °C) and 50% Relative Humidity
- Primer will typically be dry within 24 hours.
 - Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and film thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time.
 - Protect coating from rain or other precipitation and temperatures less than 40°F (4.5°C) for a minimum of 24 hours and until dry.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

MIXING

Mix the contents of the factory-prepared SikaWall Tinted Primer pail with a low-speed drill and paddle mixer until thoroughly blended. A small amount of clean, potable water may be added to adjust workability but is generally unnecessary. Do not exceed 10 oz of water per 5-gallon pail.

- Additives are not permitted.
- Close the container when not in use.
- Clean tools with soap and water immediately after use.

SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings.

- Sika Facades base coat and SikaWall-525 Stucco Surface Leveler: allow to dry for a minimum of 24 hours.
- Stucco: allow to cure a minimum of 6 days prior to application of primer.
- Concrete: Allow concrete to cure a minimum of 28 days prior to application of primer.
- Unit Masonry: Allow to cure prior to application of primer.

APPLICATION

Apply primer to the substrate with a sprayer, 3/8" (10 mm) nap roller, or quality latex paintbrush at a rate of approximately 150-250 ft² per gallon (3.6-6 m² per liter). Wait a minimum of 24 hours before proceeding to the finish application. Ensure SikaWall Tinted Primer is dry to the touch.

LIMITATIONS

1. The maximum pigment load should not exceed 50% of the equivalent finish formula.
2. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
3. Do not apply materials to frozen surfaces.
4. It is not guaranteed that SikaWall Tinted Primer will eliminate efflorescence development and readthrough to the finish coating. Efflorescence is neither caused nor fully prevented by Sika primer.

Consult Sika Facades Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the

product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

SikaWall®-15 Tinted Primer
January 2025, Version 02.01
02189020000000192

SikaWall-15TintedPrimer-en-US-(01-2025)-2-1.pdf



PRODUCT DATA SHEET

Classic Finish

100% acrylic polymer finish coat

COLORS

Available in a wide variety of standard and custom colors.

PACKAGING

5 gallon pail (19 liter pail)

COVERAGE PER PAIL*

130 to 140 ft² (12 to 13 m²)

*Coverage rates vary depending on porosity of substrates and application techniques.

VOC

0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.

SHELF LIFE

Two (2) years when properly stored in original container.



DESCRIPTION

Factory-mixed, 100% acrylic polymer finish coat. Classic Finish has a “worm-holed” or rilled appearance which is achieved by the random aggregate sizes in the finish. The “worm-holed” look can be circular, random, vertical or horizontal.

USES

Classic Finish provides enhanced protection for an aesthetically pleasing surface color and texture for Senergy wall systems, poured concrete or unit masonry, conventional stucco, properly prepared insulating concrete forms and interior veneer plaster or gypsum wallboard (primer required over interior surfaces).

ADVANTAGES

100% Acrylic polymer chemistry allowing for long-term durability and weather resistance.

Integral color reducing maintenance and the need for recoating.

Repels water and resists wind-driven rain.

Seals existing, non-moving hairline cracks.

Doesn't blister, peel or flake.

TEST	METHOD	CRITERIA	RESULT
VOC	ASTM D3960 (based in part on EPA method 24)	Report Value	0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.
Surface Burning Characteristics	ASTM E 84	Report Value	Flame Spread < 25 Smoke Development < 450 (Class A)
Accelerated Weathering	ASTM G 23	No deleterious effects after 2000 hours.	Pass
Accelerated Weathering	ASTM G 53	No deleterious effects after 7500 hours.	Pass
Water Vapor Transmission	ASTM E96 Method B	Report Value	Finish with Alpha Base Coat and Flexguard 4: 15.1 Perms
Abrasion Resistance	ASTM D968	No Cracking or loss of film integrity at 528 qt. (500L) of sand	Finish not worn through after 725 qt. (686L) of falling sand
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass
Salt Fog Resistance	ASTM B117	No deleterious effects after 300 hours	Pass
Tensile Bond	ASTM C297, E2134	15 psi minimum	> 15 psi

MIXING

Thoroughly mix the factory prepared finish with a paddle and low speed drill to a uniform workable consistency. A small amount of clean potable water may be added to adjust workability. Do not exceed 10 oz. of water per 5-gallon pail.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.

SURFACE PREPARATION:

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Use of SikaWall-15 Tinted Primer or SikaWall-10 Stucco Prime can improve color uniformity by minimizing substrate read-through in light colors, not used for adhesion assistance.

- Concrete: allow to cure a minimum of 28 days prior to application of Senergy primer or finish.
- Unit Masonry: allow to cure prior to application of Senergy primer or finish. When needed, apply a

leveling coat of Alpha Genie Base Coat to provide a smooth surface and minimize the likelihood of mortar joint readthrough prior to application of finish.

- Stucco: allow to cure a minimum of 6 days prior to application of Senergy primer or finish.

APPLICATION

1. Apply finish directly to the substrate (or primed substrate) with a clean, stainless steel trowel. Apply and level finish during the same operation to minimum obtainable thickness consistent with uniform coverage.
2. Maintain a wet edge on finish by applying and texturing continually over the wall surface. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
3. Float finish to achieve final texture.

DRY TIME

Under average conditions [70°F (21°C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface

conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.

LIMITATIONS

1. Appearance of finish might vary if floated by different mechanics.
2. Protect from rain and from temperatures less than 40°F (4°C) for a minimum of 24 hours and until dry.
3. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
4. When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
5. Do not apply materials to frozen surfaces.
6. Efflorescence of Portland cement-based substrates such as concrete, masonry units and stucco may cause staining or discoloration on the surface of applied finish. Efflorescence is neither caused nor

- prevented by Senergy finish.
7. The use of dark colors with light reflective values (LRV) less than 20% is not recommended with EIFS that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 165°F (74°C).
 8. Samples of Senergy Finishes are available for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering.

TECHNICAL SUPPORT

Consult Sika Facades Technical Services Department at **+1 (800) 589-1336** for specific recommendations concerning all other applications. Consult the Sika Facades website at usa.sika.com/senergy, for additional information about products and systems and for updated literature.

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C).
- Do not stack pallets.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting usa.sika.com/senergy, e-mailing your request to mbsbscst@mbcc-group.com or calling **+1 (800) 433- 9517**. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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PRODUCT DATA SHEET

Fine Finish

100% acrylic polymer finish coat

COLORS

Available in a wide variety of standard and custom colors.

PACKAGING

5 gallon pail (19 liter pail)

COVERAGE PER PAIL*

145 to 155 ft² (13.5 - 14.4 m²)

*Coverage rates vary depending on porosity of substrates and application techniques.

VOC

0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.

SHELF LIFE

Two (2) years when properly stored in original container.



DESCRIPTION

Factory-mixed, 100% acrylic polymer finish coat. Fine Finish utilizes uniformly-sized 1.0 mm aggregate for a smooth, fine texture.

USES

Fine Finish provides enhanced protection for an aesthetically pleasing surface color and texture for Senergy wall systems, poured concrete or unit masonry, conventional stucco, properly prepared insulating concrete forms and interior veneer plaster or gypsum wallboard (primer required over interior surfaces).

ADVANTAGES

100% Acrylic polymer chemistry offering long-term durability and weather resistance.

Integral color Reducing maintenance and the need for recoating.

Repels water and resists wind-driven rain.

Seals existing, non-moving hairline cracks.

Doesn't blister, peel or flake.

TEST	METHOD	CRITERIA	RESULT
VOC	ASTM D3960 (based in part on EPA method 24)	Report Value	0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.
Surface Burning Characteristics	ASTM E 84	Report Value	Flame Spread < 25 Smoke Development < 450 (Class A)
Accelerated Weathering	ASTM G 23	No deleterious effects after 2000 hours.	Pass
Accelerated Weathering	ASTM G 53	No deleterious effects after 7500 hours.	Pass
Water Vapor Transmission	ASTM E96 Method B	Report Value	Finish with Alpha Base Coat and Flexguard 4: 15.1 Perms
Abrasion Resistance	ASTM D968	No Cracking or loss of film integrity at 528 qt. (500L) of sand	Finish not worn through after 725 qt. (686L) of falling sand
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass
Salt Fog Resistance	ASTM B117	No deleterious effects after 300 hours	Pass
Tensile Bond	ASTM C297, E2134	15 psi minimum	> 15 psi

MIXING

Thoroughly mix the factory prepared finish with a paddle and low speed drill to a uniform workable consistency. A small amount of clean potable water may be added to adjust workability. Do not exceed 10 oz. of water per 5-gallon pail.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.

SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Use of SikaWall-15 Tinted Primer or SikaWall-10 Stucco Prime can improve color uniformity by minimizing substrate read-through in light colors, not used for adhesion assistance.

- Concrete: allow to cure a minimum of 28 days prior to application of primer or finish.
- Unit Masonry: allow to cure prior to application of primer or finish. When needed, apply a leveling coat of Alpha Genie Base Coat to provide a smooth surface and minimize

the likelihood of mortar joint readthrough prior to application of finish.

- Stucco: allow to cure a minimum of 6 days prior to application of primer or finish.

APPLICATION

1. Apply finish directly to the substrate (or primed substrate) with a clean, stainless steel trowel. Apply and level finish during the same operation to minimum obtainable thickness consistent with uniform coverage.
2. Maintain a wet edge on finish by applying and texturing continually over the wall surface. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
3. Float finish to achieve final texture

DRY TIME

Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or

other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.

LIMITATIONS

1. Protect from rain and from temperatures less than 40°F (4°C) for a minimum of 24 hours and until dry.
2. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
3. When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
4. Do not apply materials to frozen surfaces.
5. Efflorescence of Portland cement-based substrates such as concrete, masonry units and stucco may cause staining or discoloration on the surface of applied finish. Efflorescence is neither caused nor prevented by Senergy finish.
6. The use of dark colors with light reflective values (LRV) less than 20% is not recommended with EIFS that incorporate expanded polystyrene (EPS). EPS has a sustained

service temperature limitation of approximately 165°F (74°C).

7. Samples of Senergy Finishes are available for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering.

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C).
- Do not stack pallets.

TECHNICAL SUPPORT

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PRODUCT DATA SHEET

Senerflex Texture Finish

100% acrylic polymer finish coat

COLORS

Available in a wide variety of standard and custom colors.

PACKAGING

5 gallon pail (19 liter pail)

COVERAGE PER PAIL*

Smooth: 182-187 ft² (17 m²)
at two (2) coats.

Skip Trowel: 150-160 ft² (14 m²)

*Coverage rates vary depending on porosity of substrates and application techniques.

VOC

0.22-0.31 lbs/gal (26-37 g/l)
less water and exempt solvents.

SHELF LIFE

Two (2) years when properly stored in original container.



DESCRIPTION

Factory-mixed, 100% acrylic polymer finish coat. Texture Finish can achieve a wide variety of free-formed textured appearances, including stipple and skip-trowel.

USES

Texture Finish provides enhanced protection for an aesthetically pleasing surface color and texture for Senergy wall systems, poured concrete or unit masonry, conventional stucco, properly prepared insulating concrete forms and interior veneer plaster or gypsum wallboard (primer required over interior surfaces).

ADVANTAGES

100% Acrylic polymer chemistry creating long-term durability and weather resistance.

Integral color reducing maintenance and the need for recoating.

Repels water and resists wind-driven rain.

Seals existing, non-moving hairline cracks.

Doesn't blister, peel or flake.

Technical Data

TEST	METHOD	CRITERIA	RESULT
VOC	ASTM D3960 (based in part on EPA method 24)	Report Value	0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.
Surface Burning Characteristics	ASTM E 84	Report Value	Flame Spread < 25 Smoke Development < 450 (Class A)
Accelerated Weathering	ASTM G 23	No deleterious effects after 2000 hours	Pass
Accelerated Weathering	ASTM G 53	No deleterious effects after 7500 hours	Pass
Water Vapor Transmission	ASTM E96 Method B	Report Value	Finish with Alpha Base Coat and Flexguard 4: 15.1 Perms
Abrasion Resistance	ASTM D968	No Cracking or loss of film integrity at 528 qt. (500L) of sand	Finish not worn through after 725 qt. (686L) of falling sand
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass
Salt Fog Resistance	ASTM B117	No deleterious effects after 300 hours	Pass
Tensile Bond	ASTM C297, E2134	15 psi minimum	> 15 psi

MIXING

Thoroughly mix the factory prepared finish with a paddle and low speed drill to a uniform workable consistency. A small amount of clean potable water may be added to adjust workability. Do not exceed 10 oz. of water per 5-gallon pail.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water. immediately after use. Dried material can only be removed mechanically.

SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Use of SikaWall®-15 Tinted Primer or SikaWall-10 Stucco Prime can improve color uniformity by minimizing substrate read-through in light colors, not used for adhesion assistance.

- Concrete: allow to cure a minimum of 28 days prior to application of SikaWall primer or Senergy finish. A leveling coat of Senergy base coat is recommended if a smooth finish texture is desired.

- Unit Masonry: allow to cure prior to application of SikaWall primer or Senergy finish. When needed, apply a leveling coat of Alpha Genie Base Coat to provide a smooth surface and minimize the likelihood of mortar joint readthrough prior to application of finish.
- Stucco: allow to cure a minimum of 6 days prior to application of SikaWall primer or Senergy finish. A leveling coat of Senergy base coat is recommended if a smooth finish texture is desired.

APPLICATION

1. For a smooth appearance, apply Texture Finish directly to the substrate or primed substrate with a clean, stainless steel trowel. Apply and level finish during the same operation to obtain minimum 1/16" (1.6 mm) thickness uniform coverage.
2. Maintain a wet edge on finish by applying and texturing continually over the wall surface. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.

3. Allow the first coat of Texture Finish to dry prior to applying a second coat. (2 coats are required for a smooth texture).

NOTE: For free-formed application including stipple and skip-trowel, maximum thickness not to exceed 1/8" (3.2mm).

DRY TIME

Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.

LIMITATIONS

1. Over troweling or "burnishing" may create changes in color.
2. Protect from rain and from temperatures less than 40°F (4°C) for a minimum of 24 hours and until dry.
3. Efflorescence of Portland cement-based substrates such as concrete, masonry units and stucco may

cause staining or discoloration on the surface of applied finish. Efflorescence is neither caused nor prevented by Senergy finish.

4. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
5. When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
6. Do not apply materials to frozen surfaces.
7. The use of dark colors with light reflective values (LRV) less than 20% is not recommended with EIFS that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 165°F (74°C).
8. Samples of Texture Finish are available from Senergy for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering.

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C)
- Do not stack pallets.

TECHNICAL SUPPORT

Consult Sika Facades Technical Services Department at **+1 (800) 589-1336** for specific recommendations concerning all other applications. Consult the website at usa.sika.com/senergy, for additional information about products and systems and for updated literature.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting usa.sika.com/senergy, e-mailing your request to mbsbscst@mbcc-group.com or calling **+1 (800) 433- 9517**. Use only as directed. **IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.**

LIMITED WARRANTY NOTICE

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com/senergy or by calling our Technical Service Department at **+1 (800) 589-1336**.

Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at usa.sika.com or by calling **+1 (800) 589-1336**.

PRODUCT DATA SHEET

Sahara Finish

100% acrylic polymer finish coat

COLORS

Available in a wide variety of standard and custom colors.

PACKAGING

5 gallon pail (19 liter pail)

COVERAGE PER PAIL*

105 to 115 ft² (9.8 - 10.7 m²)

*Coverage rates vary depending on porosity of substrates and application techniques.

VOC

0.22-0.31 lbs/gal (26-37 g/l) less water and exempt solvents.

SHELF LIFE

Two (2) years when properly stored in original container.



DESCRIPTION

Factory-mixed, 100% acrylic polymer finish coat. Sahara Finish provides a uniform 1.5 mm "pebble" appearance.

USES

Sahara Finish provides enhanced protection for an aesthetically pleasing surface color and texture for Senergy wall systems, poured concrete or unit masonry, conventional stucco, properly prepared insulating concrete forms and interior veneer plaster or gypsum wallboard (primer required over interior surfaces).

ADVANTAGES

100% Acrylic polymer chemistry creating long-term durability and weather resistance.

Integral color reducing maintenance and need for recoating.

Seals existing, non-moving hairline cracks.

Long-term durability and weather resistance.

Repels water and resists wind-driven rain.

Doesn't blister, peel or flake.

TEST	METHOD	CRITERIA	RESULT
VOC	ASTM D3960 (based in part on EPA method 24)	Report Value	0.22-0.31 lbs/gal (26–37 g/l) less water and exempt solvents.
Surface Burning Characteristics	ASTM E 84	Report Value	Flame Spread < 25 Smoke Development < 450 (Class A)
Abrasion Resistance	ASTM D968	No Cracking or loss of film integrity at 528 qt. (500L) of sand	Finish not worn through after 725 qt. (686L) of falling sand
Water Vapor Transmission	ASTM E96 Method B	Report Value	Finish with Alpha Base Coat and Flexguard 4: 15.1 Perms
Surface Burning Characteristics	ASTM B117	No deleterious effects after 300 hours	Pass
Water Resistance of Coating in 100% R.H.	ASTM D 2247	No deleterious effects after 14 days exposure	Pass
Accelerated Weathering	ASTM G 23	No deleterious effects after 2000 hours.	Pass
Accelerated Weathering	ASTM G 53	No deleterious effects after 7500 hours.	Pass
Tensile Bond	ASTM C297, E2134	15 psi minimum	> 15 psi

MIXING

Thoroughly mix the factory prepared finish with a paddle and low speed drill to a uniform workable consistency. A small amount of clean potable water may be added to adjust workability. Do not exceed 10 oz of water per 5-gallon pail.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.

SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Use of SikaWall-15 Tinted Primer or SikaWall-10 Stucco Prime can improve color uniformity by minimizing substrate read-through in light colors, not used for adhesion assistance.

- Concrete: allow to cure a minimum of 28 days prior to application of primer or finish.
- Unit Masonry: allow to cure prior to application of primer or finish.

When needed, apply a leveling coat of Alpha Genie Base Coat to provide a smooth surface and minimize the likelihood of mortar joint readthrough prior to application of finish.

- Stucco: allow to cure a minimum of 6 days prior to application of primer or finish.

APPLICATION

1. Apply Sahara Finish directly to the substrate or primed substrate with a clean, stainless steel trowel. Apply and level finish during the same operation to minimum obtainable thickness consistent with uniform coverage.
2. Maintain a wet edge on finish by applying and texturing continually over the wall surface. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
3. Float finish to achieve final texture.

DRY TIME

Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish

will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.

LIMITATIONS

1. Protect from rain and from temperatures less than 40°F (4°C) for a minimum of 24 hours and until dry.
2. Not for use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
3. When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C)
4. Do not apply materials to frozen surfaces.
5. Efflorescence of Portland cement-based substrates such as concrete,

masonry units and stucco may cause staining or discoloration on the surface of applied finish. Efflorescence is neither caused nor prevented by Senergy finish.

6. The use of dark colors with light reflective values (LRV) less than 20% is not recommended with EIFS that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 165°F (74°C).
7. Samples of Senergy Finishes are available for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering.

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C).
- Do not stack pallets.

HEALTH, SAFETY AND ENVIRONMENTAL

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at usa.sika.com or by calling +1 (800) 589-1336.