

Channeled Adhesive FB Design

New York building code compliant adhesively-applied, continuously insulated moisture drainage exterior wall cladding featuring a Senersshield fluid-applied air/water-resistive barrier.

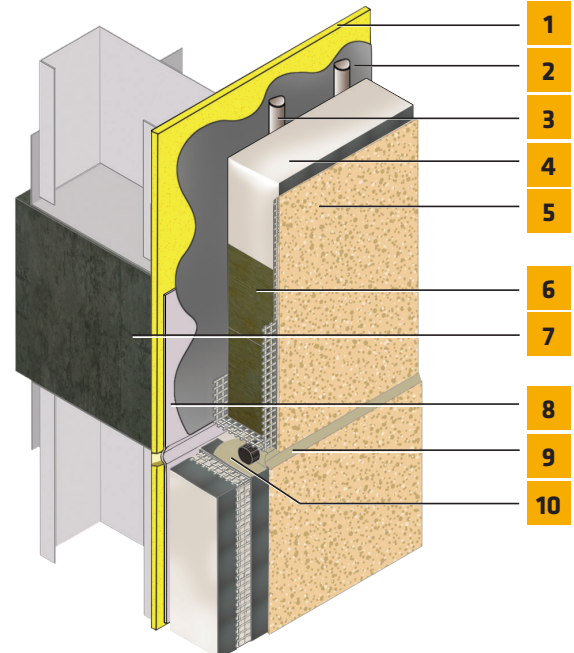
SYSTEM DESCRIPTION

Channeled Adhesive FB Design is a continuously insulated moisture-drainage wall cladding system, incorporating fire blocking per NYC requirements. It features a Senersshield fluid-applied air/water-resistive barrier, moisture drainage, up to R23 (6" Type I EPS) continuous exterior insulation, optional SikaWall Ultra HI 20 reinforcing mesh and a wide range of finish options.

DESIGN CONSIDERATIONS

2022 NYC Building Code requirements for fire blocking of combustible wall assemblies

1. Fire Blocking: Section BC 718.2.6 – Fire blocking must be installed within exterior wall assemblies that contain combustible components, even when such wall assembly has previously passed the National Fire Protection Association, Standard Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies containing Combustible Components (NFPA 285).
2. BC 718.2.6.1.1 requires noncombustible fire blocking at the following locations:
 - a. Around wall openings, such as windows, doors, vents, pipes and other similar openings.
 - b. Aligned with slab edges for a height of not less than 8 inches and at maximum intervals of 20 feet vertically.
 - c. Between different occupancy groups, vertically or horizontally as applicable. The fire blocking shall be of adequate thickness to cut off concealed gaps and form an effective barrier.
3. BC 718.2.6.1.2. Exceptions:
 - a. Exception 1: One-story buildings complying with Section 2603.4.1.4 - foam plastic covered with aluminum or steel and building is sprinklered.
 - b. Exception 2 outlines the conditions for insulated concrete and masonry veneer and EIFS, where fire blocking is not required at each floor level provided the foam plastic insulation has a flame spread index of not more than 25 in accordance with ASTM E 84 or UL 723. The exterior wall covering must also be installed less than 75 feet in height as measured from grade plane and on masonry or concrete back-up walls.
 - c. Exception 3 applies to detached one- and two- family dwellings, both of which address smaller buildings. Fire blocking of foam plastic shall not be required at each floor level in detached one- and two-family dwellings of Type V construction that do not exceed 3 stories or 40 feet in height above grade.
4. Reference 2022 NYC Building Code Related Sections & Recourses- BC 718.2.6, BC 718.2.6.1, BC 718.2.6.1.1, BC 718.2.6.1.2, BC1401.2, BC 1403.5



1. Acceptable substrate*
2. Senersshield-R/-RS/-VB
3. Senergy Adhesive / Base Coat Applied to EPS and Mineral Wool Lamella Insulation
4. Approved EPS Insulation Board*
5. Senergy Lamina:
Senergy Base Coat
Senergy Reinforcing Mesh
Senergy Finish Coat
6. 8" Mineral Wool Lamella Insulation*
7. Floor Slab*
8. SikaWall Flash Seal NP
9. Backer Rod and Sealant (Width Per Design)*
10. SikaWall Color Advance (Optional)

*By Others

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 (Senersshield-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
2022 NYC Building Code	Fire Blocking for combustible wall assemblies
For testing results, please reference Channeled Adhesive FB Design specification.	

*Senersshield-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 Channeled Adhesive FB Design is used with other cladding types on a multi-clad building.

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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).

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.

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.