

Sika Fastwall® WaterMaster MVA – Section 09 24 00

Cement plaster stucco system incorporating Parex WeatherSeal air/water-resistive barrier, SikaWall Fiber-47 Scratch & Brown, SikaWall-1000 MaxGrip Veneer Adhesive and adhered veneer finish.

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 Sika 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. 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. Local building code may impose certain restrictions that would limit the height that the system can be placed. Consult the authority having jurisdiction (AHJ) for the project to ensure local requirements are satisfied.

Designing and Detailing a Sika Fastwall WaterMaster MVA 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 $L/360$ 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, e²XP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing, DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB, Huber Zip (sheathing only).
2. Painted and otherwise coated surfaces of brick, unit masonry, and concrete shall be inspected and prepared before application. The applicator shall verify that the proposed substrate is acceptable prior to the Sika Fastwall WaterMaster MVA installation.
3. The substrate systems shall be engineered with regard to structural performance by others. Framing spacing for the Sika Fastwall WaterMaster MVA system is a maximum 24" o.c. (610 mm); maximum 16" o.c. (406 mm) when SIKAWALL-9000 PERMALATH 1000 is used.

C. Moisture Control:

1. Prevent the accumulation of water behind the Sika Fastwall WaterMaster MVA, 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

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intersections, decks, abutments of lower walls with higher walls, above projecting features, at the base of the wall and anywhere else required by local code or design at the time of installation.

- b. The PAREX WEATHERSEAL air/water-resistive barrier must be installed over the substrate according to current Sika specifications and requirements.
- c. Openings must be flashed prior to window/door, HVAC, etc. installation to provide moisture protection of the building frame and interior.
- d. Air Leakage Prevention: provide continuity of air barrier system at 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.

D. Grade Condition:

1. Sika Fastwall WaterMaster MVA 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 4" (101.6mm) clearance above grade or as required by code, a minimum 2" (50.8mm) clearance above finished grade (sidewalk/concrete flatwork).

E. System Joints:

1. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or slip tracks in steel frame construction, where substrates change and where structural movement is anticipated. Specific locations shall be detailed in construction drawings.
2. Control joints: used to control the thickness of the stucco application to ensure a leveled plane.

NOTE TO SPECIFIER: It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design. Sealant joints are required at all penetrations through the Sika Fastwall WaterMaster MVA (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Sika Fastwall WaterMaster MVA typical details.

3. Sealant shall be acceptable for use with the specified adhered veneer, as determined by the project designer.

F. Decks: Wood decks must be properly flashed prior to system application. For proper application, refer to Sika Fastwall WaterMaster MVA typical details. The Sika Fastwall WaterMaster MVA must be terminated a minimum of 2" (50.8 mm) above all decks, patios, sidewalks, etc.

G. 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 air barrier system.
3. Provide protection of rough openings in accordance with PAREX WEATHERSEAL typical details and product data sheets before installing windows, doors, and other penetrations through the wall.
4. Install copings and sealant immediately after installation of the Sika Fastwall WaterMaster MVA and when Sika coatings are completely dry.

TECHNICAL INFORMATION

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

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PART 1 – GENERAL

SECTION INCLUDES

- A. Refer to all project 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. Sika Fastwall WaterMaster MVA: composite wall system of PAREX WEATHERSEAL SPRAY & ROLL-ON or WEATHERSEAL TROWEL-ON WG air/water resistive barrier, optional SIKAWALL-9460 DRAINAGE MAT DF, SIKAWALL-9000 PERMALATH 1000 or acceptable expanded metal or wire lath, SIKAWALL FIBER-47 SCRATCH & BROWN, and SIKAWALL-1000 MAXGRIP VENEER ADHESIVE and selected adhered veneer (by others).
- C. Sika 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 Sika Fastwall WaterMaster MVA as manufactured by Sika Corporation US, Lyndhurst, NJ.

1.01 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 11 00 Wood framing
- E. Section 06 16 00 Sheathing
- 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 22 36 Lath
- N. Section 09 29 00 Gypsum board

1.02 REFERENCES

- A. ASTM C150 Standard Specification for Portland Cement
- B. ASTM C926 Standard Specification for Application of Portland Cement-Based Plaster
- C. ASTM C1063 Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
- D. ASTM C847 Standard Specification for Metal Lath
- E. ASTM C933 Standard Specification for Welded Wire Lath
- F. ASTM C1764 Standard Test Methods for Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- G. ASTM C1787 Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- H. ASTM C1788 Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- I. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
- J. ASTM D1784 Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (PVC) Compounds
- K. CCRR-0249 Intertek Code Compliance Research Report for PermaLath 1000
- L. ICC-ES ESR-2045 ICC Evaluation Service, Inc., ES Report™ for WeatherSeal products
- M. ICC-ES AC51 Acceptance Criteria for Precast Stone Veneer
- N. ACI 530-02/ASCE 5-02/TMS 402-02 Building Code Requirements for Masonry Structures

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O. ANSI A108.01	General Requirements: Sub-surfaces and Preparations by Other Trades.
P. ANSI A108.02	General Requirements: Materials, Environmental, and Workmanship.
Q. ANSI A108.10	Installation of Grout in Stonework.
R. ANSI A118.4	Specifications for Latex-Portland Cement Mortar.
S. ANSI A118.10	Specifications for Load Bearing, Bonded, Waterproof Membranes for Stone Installations
T. ANSI A137.1	Specification for Ceramic Tile
U. ASTM C1088	Standard Specification for Thin Veneer Brick Units
V. ASTM C1670	Standard Specification for Adhered Manufactured Stone Masonry Veneer (AMSMV) Units

1.03 SUBMITTALS

- A. Submit under provisions of Section [01 33 00]
- B. Product Data: Provide data on Sika Fastwall WaterMaster MVA 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 Sika Fastwall WaterMaster MVA design.
- E. Certificate: System manufacturer's approval of applicator.
- F. Sealant: Sealant manufacturer's certificate of compliance with ASTM C920.
- G. System manufacturer's typical details, system design guide and related product literature which indicate preparation required, storage, installation techniques, jointing requirements and finishing techniques.

1.04 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the exterior wall systems industry, with more than 1000 completed cement plaster stucco projects.
- B. Applicator: Approved by Sika in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements.
- 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, as designated by the project designer, shall be comprised of all wall assembly components including substrate, PAREX WEATHERSEAL, SIKAWALL-9460 DRAINAGE MAT DF (if applicable), SIKAWALL-9000 PERMALATH 1000 or metal plaster base, SIKAWALL FIBER-47 SCRATCH & BROWN, SIKAWALL-1000 MAXGRIP VENEER ADHESIVE, adhered veneer and typical sealant/flashing conditions.
- E. Testing:

1. PAREX WEATHERSEAL SPRAY & ROLL-ON:

TEST	METHOD	CRITERIA	RESULTS
Accelerated Weathering	AC 212	25 Cycles followed by Hydrostatic Pressure Test: No water penetration on the plane of the exterior facing side of the substrate.	Pass: no water penetration
Air Infiltration	ASTM E2178	Calculated flow Rate at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O) = < 0.02 L/m ² *s (< 0.004 cfm/ft ²)	< .00001 L/m ² *s (0.00001 cfm/ft ²) at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O)
Air Leakage of Air Barrier Assemblies	ASTM E2357	Pass < 0.2 L / s·m ² at 75 Pa) (< 0.04 cfm / ft ² at 1.57 psf)	Pass
Air Leakage	ASTM E283	No Criteria	< 0.004 cfm/ft ²

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Elongation	ASTM D412	No Criteria	360%
Flexibility	ASTM D522	No Criteria	No Cracking at 1/8" (3 mm)
Freeze-Thaw Resistance	ASTM E 2485	10 Cycles	Pass – No Deleterious Effects
Hydrostatic Pressure Test	AATCC 127 (Water Column)	Resist 21.6 in (55 cm) water for 5 hours before and after aging	Pass: no water penetration
Nail Seal ability, Head of Water	ASTM D1970	No Criteria	Pass 5 inches of water
Evaluation of Fire Propagation	NFPA 285	In Accordance with IBC Chapter 26	Meets requirements for use on all Types of construction
Radiant heat exposure	NFPA 268	In Accordance with IBC Chapter 26	No ignition upon 20-minute radiant heat exposure at 1.25 w/cm2.
Pull off Strength	ASTM D 4541	No Water Penetration	Pass - no water penetration
Racking	ASTM E72	Deflection at 1/8 in (3.2 mm)	Pass -No cracking at field, joints or flashing connection
Structural Loading	ASTM E1233 Procedure A	10 Cycles @ 80% design loads	Pass -No cracking at field, joints or flashing connection
Restrained Environmental	ICC ES AC 212 / ASTM E2570	5 Cycles of wetting and drying	Pass -No cracking at field, joints or flashing connection
Surface Burning Characteristics	ASTM E84	ICC and ASTM E2568 Flame Spread <25 Smoke Developed <450	Flame Spread =0 Smoke Developed =0
Tensile Bond Strength	ASTM E 2134/ ASTM C 297	Minimum 15 psi (104 kPa)	Pass all listed substrates and flashing materials
Water Resistance	ASTM D 2247	14 Days	Pass – No Deleterious Effects.
Water Penetration	ASTM E331	2.86 psf (137 Pa) for 15 minutes	Pass 25.4 psf (1216 Pa) for 165 minutes
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	No Water Penetration
Water vapor transmission	ASTM E96 Procedure B	Vapor Permeable	12.0 perms
Weathering	ICC ES AC 212 / ASTM E2570	210 hours of UV Exposure, 25 cycles of accelerated weathering, 21.6 in (549 mm) water column for 5 hours	Pass
Wind Driven Rain	F.S. TT-C-555B	No Criteria	Pass
VOC	EPA Reference Test Method 24	US EPA, South Coast AQMD and Greenseal Standard	10 g/L

2. PAREX WEATHERSEAL TROWEL-ON WG:

TEST	METHOD	CRITERIA	RESULTS
Accelerated Weathering	AC 212	25 Cycles followed by Hydrostatic Pressure Test: No water penetration on the plane of the exterior facing side of the substrate.	Pass: no water penetration
Air Infiltration	ASTM E2178	Calculated flow Rate at 75 Pa (1.57 lb/ft2, 0.3 in H2O) = < 0.02 L/m2*s (< 0.004 cfm/ft2)	< .00001 L/m2*s (0.00001 cfm/ft2) at 75 Pa (1.57 lb/ft2, 0.3 in H2O)

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Air Leakage of Air Barrier Assemblies	ASTM E2357	Pass < 0.2 L / s·m ² at 75 Pa) (< 0.04 cfm / ft ² at 1.57 psf)	Pass
Flexibility	ASTM D522	No Criteria	No cracking at 1/8" (3mm)
Tensile Bond	ASTM E2134/ASTM C297	Minimum 15 psi (104 kpa)	Pass all listed substrates and flashing materials
Freeze-Thaw Resistance	ASTM E2485	10 cycles	Pass: no deleterious effects
Hydrostatic Pressure Test	AATCC 127 (Water Column)	Resist 21.6 in (55 cm) water for 5 hours before and after aging	Pass: No water penetration
Water Resistance	ASTM D 2247	14 Days	Pass: No Deleterious Effects.
Water Penetration	ASTM E331	2.86 psf (137 Pa) for 15 minutes	Pass: 25.4 psf (1216 Pa) for 165 minutes
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	Pass: No Water Penetration
Water vapor transmission	ASTM E96 Procedure B	Vapor Permeable	8.8 perms
Weathering	ICC ES AC 212/ ASTM E2570	210 hours of UV Exposure, 25 cycles of Accelerated weathering, 21.6 in (549mm) water column for 5 hours	Pass
Mildew Resistance	ASTM D3273	No Criteria	35 Days
Nail Sealability, Head of Water	ASTM D1970	No Criteria	Pass: 5 inches of water
Racking	ASTM E72	Deflection at 1/4 in (3.2mm)	Pass: No cracking at field, joints or flashing connection
Restrained Environmental	ICC ES AC 212 / ASTM E2570	5 Cycles of wetting and drying	Pass: No cracking at field, joints or flashing connection
Structural Loading	ASTM E1233 Procedure A	10 Cycles @ 80% design load	Pass: No cracking at field, joints or flashing connection
Surface Burning Characteristics	ASTM E84	ICC and ASTM E2568 Flame Spread <25 Smoke Developed <450	Flame Spread = 0 Smoke Developed = 0

3. Sika Fastwall WaterMaster MVA System and Component Performance:

TEST	METHOD	CRITERIA	RESULTS
Freeze-thaw Resistance	Per ICC-ES acceptance criteria AC-11	No sign of deleterious effects after 10 cycles	SikaWall Fastwall Stucco Base passed with no visible evidence of deterioration when examined under 5x magnification
Water Vapor Transmission	ASTM E96 -Wet Cup	Report Value	SikaWall Fastwall Stucco Base 20.4 perms
Racking Load Test	ASTM E72	Report Value	Maximum load resistance 5530 pounds (250 kg)
Compressive Strength	ASTM C109	Report Value	22.4 MPa (3245 psi) average for SikaWall stucco base
Flexural Strength	ASTM C348	Report Value	4.57 MPa (663 psi) average for SikaWall stucco base
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed Includes PermaLath 1000, SikaWall stucco base, and Senergy Finishes
Non-Combustibility	ASTM E136	No flaming, excess temperature rise or weight loss when exposed to 750°C (1382°F)	Pass SikaWall stucco base with PermaLath 1000 or metal plaster base
Fire Resistance Rated Assemblies	ASTM E119	No transmission of heat greater than 250°F above ambient; no passage of flame or hot gasses; no passage of water from hose stream test; for loadbearing walls – ability to withstand load under test conditions	1 Hour Rated Assemblies ¹ : - Load bearing wood stud wall with 10.9 mm (7/16") OSB and 9.5 mm (3/8") SikaWall stucco base. - Load bearing wood stud wall with 16 mm (5/8") Type X gypsum sheathing and 9.5 mm (3/8") SikaWall stucco base

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			• Load bearing wood stud wall with 10.9 mm (7/16") OSB, PERMALATH 1000 & • 12.7 mm (1/2") SikaWall stucco base (from inside only). • Non-load bearing steel framed wall with 16 mm (5/8") Type X gypsum sheathing, PERMALATH 1000 & 12.7 mm (1/2") SikaWall stucco base
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Reference Evaluation Reports ESR-2654 and CCRR-0249 for more information

4. ASTM E330 Wind-Load:

FRAMING	SHEATHING	LATH	ALLOWABLE WIND LOAD	
Minimum 2x4 wood with a maximum spacing of 24" on center	Fiberboard, gypsum board and wood structural panels	Minimum No. 20 gage by 1" metal lath installed with 11 gage roofing nails or NO. 16 gage staples spaced as follows: 6 in. o.c. for framing with G=0.50 5 in. o.c. for framing with G=0.46 4 in. o.c. for framing with G=0.42	40 psf positive	40 psf negative
Min. 3-5/8 in. No. 20 gage steel studs with a maximum spacing of 24 in. o.c.	Fiberboard, gypsum board and wood structural panels	Min. No. 20 gage by 1-in. metal lath installed with No 7, S-12-20 self-drilling, self-tapping panhead screws, spaced at 6 in. o.c.	40 psf positive	40 psf negative

5. SIKAWALL-1000 MAXGRIP VENEER ADHESIVE:

TEST	METHOD	CRITERIA	RESULTS
Compressive Strength	ASTM C 109	N/A	4000 psi
Freeze-Thaw	ASTM C 666	Procedure A: cycles rapid freezing and thawing in water. 40°F - 0°F - 40°F in not less than 2 hours and not more than 5 hours; modified using full IVS composite in place of concrete beam	> 100 cycles, no failure of MaxGrip
Shear Strength	ANSI 118.4	28 days ≥ 200 psi After 7 day water immersion ≥ 150 psi	565 psi at 28 days 306 psi after 7 day water immersion
Shear Strength	ANSI A118.15	7 days ≥ 300 psi 28 days ≥ 400 psi After 7 days water immersion ≥ 200 psi	487 psi at 7 days 565 psi at 28 days 306 psi after 7 day water immersion
Shear Bond	ASTM C482	Minimum 50 psi	130 psi - Directly to molded cement mortar bed specified in ASTM C482 = 130 psi

1.05 DELIVERY, STORAGE AND HANDLING

- Deliver, store and handle products under provisions of Section [01 65 00] [01 66 00] [].
- Deliver Sika materials in original unopened packages with manufacturer's labels intact.
- Protect Sika materials during transportation and installation to avoid physical damage.
- Store Sika materials in a cool, dry place protected from freezing. Store at no less than 40°F/4°C.
- Store SIKAWALL-80 MAXFLASH at a minimum of 40°F. In cold weather, keep containers at room temperature for at least 24 hours before using.
- Store SIKAWALL-9460 DRAINAGE MAT DF, SIKAWALL-9000 SHEATHING FABRIC and SIKAWALL-85 FLASH SEAL NP flexible flashing in a cool, dry place protected from exposure to moisture.

1.06 PROJECT/SITE CONDITIONS

- Do not apply Sika material in ambient temperatures below 40°F/4°C. Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F/4°C prevail. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
- Do not apply materials to frozen surfaces.

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- C. Maintain ambient temperature at or above 40°F/4°C during and at least 24 hours after material installation and until dry.

1.07 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Sika Fastwall WaterMaster MVA with related work of other sections.
B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.

1.08 WARRANTY

- A. Provide a Sika standard warranty for Sika Fastwall WaterMaster MVA installations under provisions of Section [01 70 00]. Warranty term varies with system component's configuration.
B. Comply with Sika Facades' notification procedures to assure qualification for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

All components of the Sika Fastwall WaterMaster MVA shall be obtained from the system manufacturer or through an authorized distributor.

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 One)**
 - a. PAREX WEATHERSEAL SPRAY & ROLL-ON: A one-component fluid-applied vapor permeable air/water-resistive barrier, roller or spray applied.
 - b. PAREX WEATHERSEAL TROWEL-ON WG: A one-component fluid-applied vapor permeable air/water-resistive barrier, trowel applied.
2. Rough Opening and Joint Treatment: **(Required, Select a or b)**
 - a. SIKAWALL-9000 SHEATHING FABRIC: A spun-bonded non-woven reinforced polyester web for use with Senergy fluid applied air/weather-resistive barriers.
 - b. SIKAWALL-80 MAXFLASH: A one-component elastomeric material for use as a flexible flashing membrane.
3. SIKAWALL-85 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 Parex liquid air/weather resistive barriers.

B. **Slip Sheet: Minimum one layer Grade D paper – not required if SIKAWALL-9460 DRAINAGE MAT DF is used.**

- C. **SIKAWALL-9460 DRAINAGE MAT DF:** A three-dimensional drainage core bonded to a breathable fabric. The mat consists of fused, entangled filaments designed to provide an unobstructed drainage path.

D. **Lath/Plaster Base: (Required, Select One)**

NOTE TO SPECIFIER: Ensure selection of the appropriate Lath based on specified thickness of the Sika Fastwall WaterMaster MVA system. Delete those products not utilized. Reference Senergy Lath & Trim Accessories System support bulletin for additional information.

1. SIKAWALL-9000 PERMALATH 1000: An open weave, three-dimensional self-furring, nominal 1/4" thick glass fiber reinforcing lath is for use with a minimum thickness of 12.7mm (1/2"). Complies with ASTM C1764, C1787 and C1788.
2. Woven or Welded Wire Lath: A minimum No. 18 gauge galvanized woven wire fabric is for use with 9.5-12.7mm (3/8"-1/2") thickness only. Other laths shall comply with ASTM C933 (welded) and ASTM C1032 (woven). The lath is self-furred or furred when applied over all substrates.

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3. Expanded Metal Lath: The lath shall comply with ASTM C847. Furring and self-furring requirements shall be as set forth for wire lath. Minimum weight is 1.36 kg/m² (2.5 lbs./yd²). Refer to ASTM C 1063 for additional information.

E. Fastening for Lath/Plaster Base: (Required, Select One or More)

1. SIKAWALL-9000 PERMALATH 1000: Washers: ULP-302 (1 3/4") or Lath Plate (1 1/4") Mechanical Fastening Systems by Wind-Lock Corp.
 - a. Masonry: masonry type [M] fastener with ULP 302 diameter washer; or Lath Plate 25 mm (1") minimum penetration into masonry. Fastener spacing 6" o.c. vertically and 16" o.c. horizontally.
 - b. Light Gauge Steel Framing/Furring (20 Gauge): light metal type [LM] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate 16 mm (5/8") minimum penetration into framing 6" o.c. vertically and 16" o.c. horizontally
 - c. Heavy Gauge Steel Framing (18 to 12 Gauge maximum): metal type [S] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate or 32 mm (1 1/4") long x 2.5 mm (1/8") diameter VersaPin Gripshank® fasteners by Aerosmith Fastening Systems with Lath Plates; 16 mm (5/8") minimum penetration to framing 6" o.c. vertically and 16" o.c. horizontally.
 - d. Wood framing: wood type [W] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate; 16 mm (5/8") minimum penetration into framing or minimum 16-gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing, 6" o.c. vertically and 16" o.c. horizontally.
2. Metal Plaster Base: Fasten per ASTM C1063
 - a. Masonry: Power or powder actuated fasteners and/or concrete stub nails with minimum 3/4" penetration. Fastener spacing not more than 7" o.c. vertically and 16" o.c. horizontally
 - b. Metal framing: Screws appropriate to framing gauge, not less than 3/8" penetration through framing with a minimum of 3 exposed threads. Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type
 - c. Wood framing: nails, 1" wire staples penetrating wood framing not less than 3/4" or screws penetrating wood framing not less than 5/8". Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type

F. Stucco Base Coat: (Required, Select One)

1. SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE: Factory-blended stucco mixture of Portland cement, reinforcing fibers, and proprietary ingredients.
2. SIKAWALL FIBER-47 SCRATCH & BROWN SANDED: Factory-blended stucco mixture of Portland cement, reinforcing fibers, sand, and proprietary ingredients.
3. SIKAWALL FIBER-47 SCRATCH & BROWN 690 SANDED: Factory-blended stucco mixture of Portland cement, reinforcing fibers, sand, and proprietary ingredients.

G. Plaster Sand: (Required if SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE is retained from above):

Must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C897. Plaster sand must be graded within the following limits:

Retained on U.S. Standard Sieve	Percent retained by weight ± 2 Percent	
	Minimum	Maximum
No. 4	-	0
No. 8	0	10
No. 16	10	40

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No. 30	30	65
No. 50	70	90
No. 100	95	100

H. Water: Clean and potable without foreign matter.

I. SIKAWALL-1000 MAXGRIP VENEER ADHESIVE: A high-strength specially formulated adhesive used as a skim coat and to fasten manufactured stone, ceramic tile and thin brick.

J. Adhered Veneer (By Other):

1. Manufactured Stone Veneer Units: shall comply with ICC-ES AC51 Acceptance Criteria Adhered Manufactured Stone Masonry Veneer or ASTM C1670 Standard Specification for Adhered Manufactured Stone Masonry Veneer Units.
2. Thin Brick Veneer Units: shall comply with ASTM C1088 Standard Specification for Thin Veneer Brick Units Made from Clay or Shale.
3. Tile: shall comply with requirements of the Tile Council of North America/ANSI A137.1 Standard for Ceramic Tile and other applicable TCNA standards.

2.03 ACCESSORIES

Trim: Casing bead, corner bead, expansion joint and weep screed accessories shall meet the requirements of ASTM C1063. Accessories shall be: vinyl, meeting ASTM D1784; galvanized, meeting ASTM A525 and ASTM A526; or zinc, meeting ASTM B69. Vinyl or zinc accessories are recommended where highly humid or salt-laden service conditions exist.

1. Foundation weep screed: Beveled edge designed to terminate finish system and drain internal moisture.
2. Casing bead: Square edge style.
3. Corner bead: Small radius nose style.
4. Control joints: W-shaped accordion profile style.
5. Expansion joints: [\[Two-piece type slip-joint design\]](#) or [\[pair of casing beads spaced for application of sealant bead\]](#)

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify project site conditions under provisions of Section [01 89 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, e²XP™ sheathing (ASTM C1177), GlasRoc® sheathing (ASTM C1177), Securock™ glass-mat sheathing (ASTM C1177), DensGlass and DensElement (sheathing only) exterior sheathing (ASTM C1177), Weather Defense™ Platinum sheathing (ASTM C1177), GreenGlass® sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure I or exterior plywood (Grade C/D or better), Huber Zip (sheathing only), or Exposure I OSB.
 - b. Sheathings must be securely fastened per applicable building code requirements and manufacturer's recommendations.
 - c. Examine surfaces to receive system and verify that substrate and adjacent materials are dry, clean, and sound. Verify substrate surface is flat, free of fins or planar irregularities greater than 6 mm in 3 m (1/4" in 10').
 - d. When applying PAREX WEATHERSEAL barriers to concrete/unit masonry, verify concrete/unit masonry is free of dust, dirt, grease, oils, laitance, efflorescence, biological residue, existing paint or coatings, curing compounds, form release agents, or any other contaminants which might affect the bond. Masonry walls should be properly cured to full load bearing capacity, laid true, and with joints tooled. Properly prepared concrete will have an open texture similar to fine grit sandpaper.

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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 PAREX WEATHERSEAL typical details and product data sheet for further guidance.
- 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/or 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 where required. The kick-out flashing must be 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 Sika Fastwall WaterMaster MVA System.

B. Protect finished work at end of each day to prevent water penetration.

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 which were selected in Section 2.02. Delete those not to be utilized.

A. Air/Water-Resistive Barriers:

1. PAREX WEATHERSEAL SPRAY & ROLL-ON: Mix with a clean, rust-free paddle and drill until thoroughly blended. Do not add water.
2. PAREX WEATHERSEAL TROWEL-ON WG: Use clean equipment for mixing and preparation. Do not add water. Stir PAREX WEATHERSEAL TROWEL-ON WG to a uniform consistency. Avoid creating air bubbles or foam.

B. Stucco Base Coat:

1. SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE: Use clean equipment for mixing and preparation. Mixing ratio: Mix 5.5-6.5 gal. (20.5-24.5L) of water and 3-4.5 ft³ (240-360 lbs or 109-163 kg) of sand that conforms to ASTM C926 requirements to each bag of SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE at the time of use. Actual water and sand quantity will vary depending on the density, gradation and moisture content of the sand. Optimum sand additions depend on the sand gradation. Finer sand will result in a lower total sand addition to the SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE. Poor sand quality or gradation not conforming may cause cracking and weakened plaster. Use cool, clean, potable water; let hose run to clear it of hot water. Mix at low speed for a minimum of 3 minutes, until the mixture is smooth. For hand applications, stop mixer and allow mix to slake for 8 minutes. Briefly re-mix before using (approximately 2 minutes). Use SIKAWALL FIBER-47 SCRATCH & BROWN immediately after mixing. Do not retemper. SIKAWALL-73 ADACRYL ADMIX & BONDER as an admix: use up to 1 gal (3.8L) per bag of SIKAWALL FIBER-47 SCRATCH & BROWN CONCENTRATE. After the dry components and the majority of the water has been mixed, add the acrylic admix in place of 1 gal (3.8L) of water. Mix no longer than required to provide a uniform mixture. DO NOT OVER-MIX. Over-mixing entrains excessive amounts of air which weaken the material. Do not re-temper mixes over 20 minutes old.
2. SIKAWALL FIBER-47 SCRATCH & BROWN SANDED: Use clean equipment for mixing and preparation. Add to plaster mixer 1 1/2-2 gallons (5.6-7.6L) of water for each 80-pound (36 kg) bag of SIKAWALL FIBER-47 SCRATCH & BROWN SANDED to be mixed in a batch. Add SIKAWALL FIBER-47 SCRATCH & BROWN SANDED to the mixer. Use cool, clean, potable water; let hose run to clear it of hot water. Adjust water for

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workability. Mix at low speed for a minimum of 3 minutes, until the mixture is smooth. For hand applications, stop mixer and allow mix to slake for 8 minutes. Briefly re-mix before using (approximately 2 minutes). Use immediately after mixing. Do not retemper. SIKAWALL ADACRYL ADMIX & BONDER as an admix: Use up to 1 qt (1L) per bag of SIKAWALL FIBER-47 SCRATCH & BROWN SANDED. After the dry components and the majority of the water has been mixed, add the acrylic admix in place of 1 qt (1L) of water. Mix no longer than required to provide a uniform mixture. DO NOT OVER-MIX. Overmixing entrains excessive amounts of air which weaken the material. Do not re-temper mixes over 20 minutes old.

3. SIKAWALL FIBER-47 SCRATCH & BROWN 690 SANDED: Use clean equipment for mixing and preparation. Add to plaster mixer 1 1/2-2 gallons (5.6-7.6L) of water for each 80-pound (36 kg) bag of SIKAWALL FIBER-47 SCRATCH & BROWN 690 SANDED to be mixed in a batch. Mixing water shall be cool potable at a uniform temperature above 40°F/5°C. Maintain same water parameters for all batches. Add SIKAWALL FIBER-47 SCRATCH & BROWN 690 SANDED to the mixer. Adjust water for workability. Mix at low speed for a minimum of 3 minutes, until the mixture is smooth. For hand applications, stop mixer and allow mix to slake for 8 minutes. Briefly re-mix before using (approximately 2 minutes). Use immediately after mixing. Do not retemper. SIKAWALL-73 ADACRYL ADMIX & BONDER as an admix: Use up to 1 qt (1L) per bag of SIKAWALL FIBER-47 SCRATCH & BROWN 690 SANDED. After the dry components and the majority of the water has been mixed, add the acrylic admix in place of 1 qt (1L) of water. Mix no longer than required to provide a uniform mixture. Do not re-temper mixes over 20 minutes old. Only Sika approved additives can be added to this product. NOTE: If SIKAWALL-73 ADACRYL ADMIX & BONDER is mixed into SIKAWALL® FIBER-47 SCRATCH & BROWN 690 SANDED and SIKAWALL EXTERIOR STUCCO COLOR COAT FINISH is used, then SIKAWALL-73 ADACRYL ADMIX & BONDER must be used in the SIKAWALL EXTERIOR STUCCO COLOR COAT FINISH also.

NOTE: Do not overmix; never mix more than five minutes. Mix each batch for the same amount of time. Mix batches of the same size, using the same amount of water, to ensure consistency. Continuous mixing may cause excessive air entrainment.

C. SIKAWALL MAXGRIP VENEER ADHESIVE:

1. Skim Coat: Prepare to mix one bag in a 5-gallon (19-liter) pail that is clean and free of foreign substances. 1.0 -1.25 gallons (3.8 -4.7 liters) of clean, potable water to a pail. Add a full bag of MAXGRIP VENEER ADHESIVE to the pail in small increments, mixing after each addition. Mix with a low speed drill with a 4-sided mortar paddle until thoroughly blended. Let stand for 5 to 10 minutes, then remix/retemper for 1 minute before use.
2. Light Weight Adhered Veneer such as Thin Brick: Prepare to mix one bag in a 5-gallon (19-liter) pail that is clean and free of foreign substances. Add 1.0 -1.25 gallons (3.8-4.7 liters) of clean, potable water to a pail. Add a full bag of MAXGRIP VENEER ADHESIVE to the pail in small increments, mixing after each addition. Mix with a low speed drill with a 4-sided mortar paddle until thoroughly blended. Additional water may be added to adjust workability, do not exceed 1.25 gallons. Let stand for 5 to 10 minutes, then remix / retemper for 1 minute before use. The mixed material should have a thick putty consistency and not slide off the trowel when held vertically.
3. Heavy Stone and Tile: Prepare to mix one bag in a 5-gallon (19-liter) pail that is clean and free of foreign substances. Add 0.75 - 1.0 gallons (2.8 - 3.8 liters) of clean, potable water to a pail. Add a full bag of MAXGRIP VENEER ADHESIVE to the pail in small increments, mixing after each addition. Mix with a low speed drill with a 4-sided mortar paddle until thoroughly blended. Additional water may be added to adjust workability, do not exceed 1 gallon. Let stand for 5 to 10 minutes, then remix / retemper for 1 minute before use. The mixed material should have a thick putty consistency and not slide off the trowel when held vertically.

3.04 APPLICATION

A. Accessories: Attach Window/Door Drip Edge level and per manufacturer's instructions.

NOTE TO SPECIFIER: Keep only the products in this section which 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 PAREX WEATHERSEAL air/water-resistive

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barrier applied in accordance with PAREX WEATHERSEAL typical details and product data sheet.

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 1/4" in 10' (6.4 mm in 3 m).
 3. Unsatisfactory conditions shall be corrected before application of the PAREX WEATHERSEAL air/water-resistive barriers.
 4. Apply the SIKAWALL-9000 SHEATHING FABRIC and PAREX WEATHERSEAL air/water-resistive barrier in accordance with the PAREX WEATHERSEAL air/water-resistive barrier product bulletin.
 5. Apply the SIKAWALL-80 MAXFLASH in accordance with SIKAWALL-80 MAXFLASH product bulletin.
 6. Ensure SIKAWALL-9000 SHEATHING FABRIC and PAREX WEATHERSEAL air/water-resistive barrier or SIKAWALL-80 MAXFLASH overlaps the top flange of the flashing.
 7. Installed materials shall be checked before continuing system application.
- C. Install slip sheet (eg. one layer Grade D paper) over dry PAREX WEATHERSEAL (reminder – not required if SIKAWALL-9460 DRAINAGE MAT DF is used)

D. SIKAWALL-9460 DRAINAGE MAT DF:

1. Apply SIKAWALL-9460 DRAINAGE MAT DF horizontally or vertically over PAREX WEATHERSEAL air/water-resistive barrier ensuring SIKAWALL-9460 DRAINAGE MAT DF is free of wrinkles.
2. Abut all vertical and horizontal edge and secure SIKAWALL-9460 DRAINAGE MAT DF to substrate with sufficient building staples or galvanized nails to remain in place prior to application of insulation board.
3. The fabric side of the SIKAWALL-9460 DRAINAGE MAT DF shall face outward toward the installer, and the nylon mat shall be in contact with the surface of the PAREX WEATHERSEAL air/water-resistive barrier

NOTE TO SPECIFIER: It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design.

E. Lath: Install in accordance with all local code requirements, applicable standards and application procedures.

1. SIKAWALL-9000 PERMALATH 1000:
 - a. Apply with minimum 3" (76mm) overlap at vertical and horizontal edges and overlap on flange of trim accessories. SIKAWALL-9000 PERMALATH 1000 can be applied horizontally or vertically and should be applied such that it is flat and free of ripples, wrinkles, etc. Fastener System type appropriate for application and substrate. Fastener spacing 6" o.c. (152 mm) vertically and 16" o.c. (406 mm) horizontally. Apply selected SIKAWALL FIBER-47 SCRATCH & BROWN product within 60 days of SIKAWALL-9000 PERMALATH 1000 application.
2. Woven/Welded Wire Lath:
 - a. Wire or lath shall be applied with minimum 1" (25 mm) end laps and side laps.
 - b. Furring crimps shall occur at maximum 6" (152 mm) intervals each way.
 - c. Refer to ASTM C1063 for additional fastening information.
3. Expanded Metal Lath
 - a. The metal lath shall be applied with minimum 1/2" (13 mm) side laps and 1" (25 mm) end laps.
 - b. When end laps occur between supports, lace or wire ties the ends of the sheets with 0.0475" (1.2 mm) galvanized annealed steel wire.
 - c. Refer to ASTM C1063 for additional fastening information.

F. Stucco Base Coat:

1. For 3/8"-1/2" (9.5-12.7 mm) scratch coat only:
 - a. Following surface preparation and installation of the lath and accessories apply selected SIKAWALL FIBER-47 SCRATCH & BROWN stucco mixture to the approved substrate by hand troweling or machine spraying to a thickness of 3/8" to 1/2" (9.5-12.7 mm), completely embedding the lath.
 - b. Cross rake (scratch) the stucco to provide open surface for bonding veneer.
 - c. Moist cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and windy conditions may make additional fogging necessary
2. For 3/4" (19mm) application:
 1. Nominal plaster base coat thickness:
 - i. First coat "scratch": 3/8" (9.5mm)

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- ii. Second coat "brown": 3/8" (9.5mm)
 2. Apply selected SIKAWALL FIBER-47 SCRATCH & BROWN mixture to the approved substrate by hand troweling or machine spraying with sufficient force to develop full adhesion between the stucco base mixture and the substrate.
 3. Apply first coat to completely embed lath. Cross rake to provide key for second brown coat. Coat must be uniform in thickness. Ensure the first coat is properly "scratched" and sufficiently rigid to resist cracking prior to application and leveling of the second or "brown" coat.
 4. Dampen scratch coat, apply brown coat to provide the required total thickness. Trowel stucco base into trim to seat trim. The lath shall be fully embedded in the coating and shall be completely covered. Coat must be uniform in thickness. Rod off to desired thickness, leveled with screeds, to provide a true, flat plane. Follow this by wood floating or darbying the surface.
 5. After the surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving the surface ready to receive the adhered veneer.
 6. At subcontractor's option, the "double back" method of application, whereby the first and second coats are applied and cured as one system, may be used. If this system is used, the second coat (brown) should be applied as soon as the first coat is sufficiently rigid to resist cracking, the pressures of the second (brown) coat application and the leveling process.
 7. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and wind may make additional fogging necessary.
- G. SIKAWALL-1000 MAXGRIP VENEER ADHESIVE / Adhered Veneer:** For 3/4" scratch and brown application, prior to installing the adhered veneer, apply SIKAWALL-1000 MAXGRIP VENEER ADHESIVE as a skim coat over stucco brown coat at approximately 1/16" (1.6mm) thick. Apply to an area that can be covered with adhered veneer before the skim coat dries. Allow skim coat layer to set for 3-5 minutes, then proceed with adhering the selected veneer. If a scratch coat only application is applied, the skim coat of SIKAWALL-1000 MAXGRIP VENEER ADHESIVE is not required
- Note:** SIKAWALL-1000 MAXGRIP VENEER ADHESIVE shall be applied and veneer installed such that the SIKAWALL-1000 MAXGRIP VENEER ADHESIVE is free of voids. Allow SIKAWALL-1000 MAXGRIP VENEER ADHESIVE to cure for 24-hours before applying pointing mortar.
1. Thin Brick Veneer: Spread SIKAWALL-1000 MAXGRIP VENEER ADHESIVE onto the back of bricks in a continuous layer nominally 3/16" to 1/4" (5 - 6mm) thick and press bricks firmly into place on the substrate.
 2. Stone Veneer: Apply SIKAWALL-1000 MAXGRIP VENEER ADHESIVE to the back of clean stone veneer in a continuous layer nominally 1/4" to 3/8" (6 - 9mm) thick. Press firmly in place with a twisting movement until excess material exudes from the sides of the unit. Remove excess SIKAWALL-1000 MAXGRIP VENEER ADHESIVE between units.
 3. Tile: Installation should proceed in accordance with ANSI A 108.5 (the type and size of the tile will dictate adhesive application.)

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. Protect SikaWall materials from rain and temperatures below 4°C (40°F) for 24 hours or until dry.
- C. Protect installed construction under provisions of Section [01 76 00] [].

END OF SECTION

Sika Fastwall WaterMaster MVA 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 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 <https://usa.sika.com/>.

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Issued September 2026

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