**Finescreen 1000 with MaxGrip Veneer Adhesive – Section 07 24 23**

High-impact resistant, water-managed wall system incorporating a cement board core,

reinforced base coat 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 LaHabra® 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 LaHabra 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.

The International Building Code and TMS 402/602 *Building Code Requirements and Specification for Masonry Structures* do not place a specific height limit on this application. However 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 LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive**

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

1. **Wind Load**
2. Maximum deflection not to exceed L/360 of span under positive or negative design loads.
3. Design for wind load in conformance with local code requirements.
4. **Substrate Systems**
5. This specification is intended for applications on cement-board, ASTM C1325 Type A Exterior, minimum 1/2" substrates, over the following sheathings that are first applied over the framing and which may be required to satisfy structural requirements and/or fire resistive construction requirements: 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); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB, Huber Zip (sheathing only).
6. The substrate systems shall be engineered with regard to structural performance by others.
7. **Moisture Control**
8. Prevent the accumulation of water behind the Finescreen 1000 with MaxGrip Veneer Adhesive system, either by condensation or leakage through the wall construction, in the design and detailing of the wall assembly.
	1. 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.
	2. 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.
	3. 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.
9. **System Joints**
10. 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.
11. Sealant joints are required at all penetrations through the Finescreen 1000 with MaxGrip Veneer Adhesive system (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Finescreen 1000 with MaxGrip Veneer Adhesive typical details.

**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.**

1. For a list of acceptable sealants refer to Acceptable Sealants for use with LaHabra Wall Systems technical bulletin.
2. **Grade Condition**
3. LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive 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).
4. **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 an air seal 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 Finestop product bulletin and published details before installing windows, doors, and other penetrations through the wall.
	4. Install copings, sealant and other weather protective items immediately after installation of the Finescreen 1000 with MaxGrip Veneer Adhesive and when Sika materials are completely dry.

**TECHNICAL INFORMATION**

Consult Sika Facades’ Technical Services Department for specific recommendations 800-589-1336. Consult the LaHabra website, usa.sika.com/lahabra, for additional information about products, systems and for updated literature.

**PART 1 – GENERAL**

**NOTE TO SPECIFIER: Items in blue/underlined indicated a system option or choice of options.**

**Throughout the specification, delete those which are not required or utilized.**

* 1. **SECTION INCLUDES**
1. 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 such work is specifically mentioned herein.
2. LaHabra Finescreen 1000 with MaxGrip Venner Adhesive: composite wall system consisting of Finestop air/water resistive barrier, SIKAWALL DRAINAGE MAT, LaHabra base coat, LaHabra reinforcing mesh and SIKWALL MAXGRIP VENEER ADHESIVE.
3. 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.
4. The system type shall be LaHabra Finescreen 1000with MaxGripVeneer Adhesive as manufactured by Sika, Lyndhurst, NJ.
	1. **RELATED SECTIONS**
5. Section 05 40 00 Cold-formed metal framing: Light gauge load-bearing metal framing
6. Section 06 00 10 Plywood Substrate
7. Section 06 11 00 Wood Framing
8. Section 07 19 50 Air Barriers
9. Section 07 62 00 Sheet Metal Flashing and Trim: Perimeter Flashings
10. Section 07 65 00 Flexible Flashing
11. Section 07 90 00 Sealants
12. Section 08 00 00 Doors and windows
13. Section 09 10 00 Metal Support Systems
14. Section 09 11 00 Non-load-bearing wall framing: Non-load-bearing metal framing systems
15. Section 09 25 00 Exterior Gypsum substrates
	1. **REFERENCES**
16. ASTM C150 Specification for Portland cement.
17. ASTM D1682 Test for Break Load and Elongation of Textile Fabrics.
18. ASTM E84 Tests for Surface Burning Characteristics of Building Materials.
19. ASTM G23 Operating Light and Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Non-metallic Materials.
20. ASTM G53 Operating Light and Water Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials.
21. ASTM C67 Sampling and Testing Brick and Structural Clay Tile.
22. ASTM B117 Standard Method of Salt Spray (Fog) Testing.
23. ASTM D968 Abrasion Resistance of Organic Coatings by Falling Abrasive.
24. FS TT-C-555B Coating Textured for Interior and Exterior Masonry Surfaces.
25. MIL-Y-114OG Yarn, Cord, Sleeving, Cloth and Tape-Glass.
26. Mil. Std. 810B Mildew Resistance (Method 508)
27. ASTM E96 Water Vapor Transmission (Method B)
28. ICC-ES AC51 Acceptance Criteria for Precast Stone Veneer
29. ACI 530-02/ASCE 5-02/TMS 402-02 Building Code Requirements for Masonry Structures
30. ANSI A108.01 General Requirements: Sub-surfaces and Preparations by Other Trades.
31. ANSI A108.02 General Requirements: Materials, Environmental, and Workmanship.
32. ANSI A108.10 Installation of Grout in Stonework.
33. ANSI A118.4 Specifications for Latex-Portland Cement Mortar.
34. ANSI A118.10 Specifications for Load Bearing, Bonded, Waterproof Membranes for Stone Installations
35. ANSI A137.1 Specification for Ceramic Tile
36. ASTM C1088 Standard Specification for Thin Veneer Brick Units
37. ASTM C1670 Standard Specification for Adhered Manufactured Stone Masonry Veneer (AMSMV) Units
	1. **DEFINITIONS**

LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive: Exterior assembly comprised of Finestop air/water-resistive barrier, SikaWall Drainage Mat, LaHabra base coat, LaHabra reinforcing mesh and SIKAWALL MaxGrip Veneer Adhesive with an adhered veneer.

* 1. **SUBMITTALS**
1. Submit under provisions of Section [01300] [01340].
2. Product Data: Provide data on LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive materials, product characteristics, performance criteria, limitations and durability.
3. Shop Drawings: Indicate wall joint pattern and joint details, thickness, and installation details.
4. Certificate: System manufacturer’s approval of applicator.
5. Sealant: Sealant manufacturer’s certificate of compliance with ASTM C920.
6. System manufacturer’s current specifications, typical details, system design guide and related product literature which indicate preparation required, storage, installation techniques, jointing requirements and finishing techniques.
	1. **QUALITY ASSURANCE**
7. Manufacturer: More than 10 years in the industry, with more than 1000 completed cement board stucco projects.
8. Applicator: Approved by Sika in performing work of this section.
9. Regulatory Requirements: Conform to applicable code requirements for finish system.
10. Field Samples:
11. Provide under provisions of Section [01400] [ ].
12. Prepare each sample panel using the same tools and techniques to be used for the actual application.
13. Locate sample panel where directed.
14. Accepted sample panel [may] [may not] remain as part of the work.
15. Field samples shall be comprised of all wall assembly components including substrates, Finestop air/water-resistive barrier, SikaWall Drainage Mat, LaHabra base coat, LaHabra reinforcing mesh, SIKAWALL MaxGrip VENEER ADHESIVE, adhered veneer and typical sealant/flashing conditions.
16. Testing:
17. General Air/Water-Resistive Barrier Minimum Performance:

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| **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.m2) @75 Pa(0.04 cfm/ft2 @ 1.57 psf) | 0.0007 l/s.m2 (0.0001 cfm/ft2) @ 75 Pa (1.57 psf) positive / post conditioning 0.0014 l/s.m2 (0.0003 cfm/ft2) @ 75 Pa (1.57 psf) negative / post conditioning |
| Air Permeance of Building Materials | ASTM E2178 | 0.02 l/(s.m2) @75 Pa(0.004 cfm/ft2 @ 1.57 psf) | 0.0049 l/s.m2 @ 75 Pa(0.00098 cfm/ft2 @ 1.57 psf)  |
| Rate of Air Leakage | ASTM E283 |  | 0.0185 l/s·m2 @ 75 Pa (0.0037 cfm/ft2 @ 1.57 psf) |
| Water Vapor Transmission | ASTM E96 | Report value | Finestop RA - 18 Perms (grains/Hr. in Hg. ft2) @ 10 mils wet film thicknessFinestop RS 18 Perms (grains/Hr. in Hg. ft2) @ 12 mils wet film thicknessFinestop RA/RS - 14 Perms (grains/Hr. in Hg. ft2) @ 20/22 mils wet film thicknessFinestop VB - 0.09 Perms (grains/Hr. in Hg. ft2) @ 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 < 25Smoke Development < 450 | Meets Class A: Flame spread =15Smoke developed = 95 |

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

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| **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 flashingNo water penetration after 15 min @ 137 Pa (2.86 psf)  | Pass - Tested over OSB and gypsum sheathingNo 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 substrateNo 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 |

1. Air/Water-Resistive Barrier ICC-ES AC 148:

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| **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 substrateNo water penetration after 21.7 in (550 mm) water for 5 hours | Pass |
| Peel Adhesion | ASTM D 3330 Method F | After UV ExposureAfter Accelerated AgingAfter Elevated Temperature ExposureAfter 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 |

1. Finescreen 1000 with MaxGrip Veneer Adhesive and Component Performance:

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| **TEST** | **METHOD** | **CRITERIA**  | **RESULTS** |
| Direct-Applied Exterior Finish Systems (DEFS) | ICC-ES AC59 |  | Meets all performance requirements |
| Transverse Wind-load | ASTM E330 | Steel stud framing (16 gauge, 3 5/8”) @ 16" o.c. | Average ultimate loads1:- 2585 Pa (- 54 psf)+ 1053 Pa (+ 22 psf) not taken to failure |
| Transverse Wind-load | ASTM E330 | Steel stud framing (20 gauge, 3 5/8”) @ 16" o.c.,  | Average ultimate loads1:- 1676 Pa (- 35 psf)+ 862 Pa (+ 18 psf) not taken to failure |
| Transverse Wind-load | ASTM E330 | Wood assembly (2” x 4”) @ 16" o.c. | Average ultimate loads1:- 2681 Pa (- 56 psf)+ 1197 Pa (+ 25 psf) not taken to failure |
| Bond Strength after Accelerated Weathering and Freeze-thaw Test | AC59 | Minimum 34.3 kPa (5 psi) | Pass |
| Racking Test | ASTM E72 | No failure of finish at substrate joints before failure of substrate OR no failure at 1” net deflection | Pass |
| Restrained Environmental Cycling Test | AC59 | No cracking of finish or other distress after 5 cycles of water spray (24 hrs.) and radiant heat (72 hrs.) | 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. |
| Fire Endurance | ASTM E119 | Maintain fire resistance of existing rated assembly  | 2-hour rating  |
| Intermediate Scale Multi-story Fire Test | NFPA 285 / UBC Standard 26-9 | 1. Resist flame propagation over the exterior surface2. Resist vertical spread of flame within combustible core/component of panel from one story to the next3. Resist vertical spread of flame over the interior surface from one story to the next4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces | Met test criteria |
| 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) |
| Accelerated Weathering | ASTM G 153 (formerly G23) | No deleterious effects after 2000 hours. | Pass |
| Freeze-Thaw | AC59 | No deleterious effects after 10 cycles | Pass 60 cycles |

1 No failure in the LaHabra materials; failure in framing and/or sheathing connections; framing members shall be designed to comply with strength and stiffness requirements of the applicable code.

1. SikaWall MaxGrip Veneer Adhesive:

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| **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 psiAfter 7 day water immersion ≥ 150 psi | 565 psi at 28 days306 psi after 7 day water immersion |
| Shear Strength | ANSI A118.15 | 7 days ≥ 300 psi28 days ≥ 400 psiAfter 7 days water immersion ≥ 200 psi | 487 psi at 7 days565 psi at 28 days306 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 psi151 psi and 141 psi respectively - to LaHabra A/BC and A/BC 1-Step Base Coat over molded cement mortar bed specified in ASTM C482. |

1. Reinforcing Mesh Testing:

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| **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) |

* 1. **DELIVERY, STORAGE AND HANDLING**
		1. Deliver, store and handle products under provisions of Section [01 65 00] [01 66 00] [ ].
		2. Deliver Sika materials in original unopened packages with manufacturer’s labels intact.
		3. Protect Sika materials during transportation and installation to avoid physical damage.
		4. Store Sika materials in a cool, dry place protected from freezing. Store at no less than 40°F/4°C.
		5. Store MAXFLASH at a minimum of 40F. In cold weather, keep containers at room temperature for at least 24 hours before using.
		6. Store Reinforcing Mesh, MAXGRIP, SHEATHING FABRIC AND FLASH SEAL NP flexible flashing in a cool, dry place protected from exposure to moisture.
		7. 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.
	2. **PROJECT/SITE CONDITIONS**
1. Do not apply Sika materials 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).
2. Do not apply Sika materials to frozen surfaces.
3. Maintain ambient temperature at or above 40°F/4°C during and at least 24 hours after Sika materials installation and until dry.
	1. **SEQUENCING AND SCHEDULING**
4. Coordinate and schedule installation of LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive with related work of other sections.
5. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the System.
6. Coordinate and schedule installation of air/weather barrier, windows, doors, AC units etc.
	1. **WARRANTY**
7. Provide Sika standard warranty for LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive installations under provisions of Section [01 70 00].
8. Comply with Sika notification procedures to assure qualification for warranty.

**PART 2 - PRODUCTS**

* 1. **MANUFACTURERS**
1. LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive manufactured by Sika Corporation US.
	1. **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.**

1. **Air/water-Resistive Barrier Components:**
	* + 1. Air/Water-Resistive Barrier: ***(Required, Select a, b or c)***
			2. [FINESTOP R](http://www.senergy.basf.com/en/products/Air_Water_ResistiveBarriersDrainage/Pages/Senershield-R.aspx)A: A one-component fluid-applied vapor permeable air/water-resistive barrier.
			3. FINESTOP RS: A one-component fluid-applied vapor permeable air/water-resistive barrier for use with airless spray equipment.
			4. FINESTOP VB: A one-component fluid-applied vapor impermeable air/water-resistive barrier.
			5. Rough Opening and Joint Treatment: **(Required if a b or c is selected above, select a or b)**
2. SIKAWALL SHEATHING FABRIC: A spun-bonded non-woven reinforced polyester web for use with FINESTOP fluid applied air/weather-resistive barriers.
3. SIKAWALL MAXFLASH: A one-component elastomeric material for use as a flexible flashing membrane.
	* + 1. SIKAWALL FLASH SEAL NP Transitional Membrane / Expansion Joint Flashing: A 30-mil thick self-adhering and self-sealing composite membrane of polyester fabric and butyl adhesive. Compatible with FINESTOP liquid air/weather-resistive barriers.
4. **SIKAWALL DRAINAGE MAT:** Three-dimensional drainage core consisting of fused, entangled filaments.
5. **Base Coats: *(Required, Select One or More)***
	* + - 1. A/BC Base Coat: A 100% acrylic base coat, field-mixed Portland cement. It has a creamy texture that is easily spread.
				2. A/BC 1-STEP: A dry-mix polymer adhesive and base coat containing Portland cement and requiring only water for mixing.
				3. FINEGUARD: A 100% acrylic-based, water-resistant base coat, field-mixed with Portland cement.

**NOTE TO SPECIFIER: Portland cement is not required if A/BC 1-STEP Base Coat is specified.**

1. **Portland cement:** Conform to ASTM C150, Type I, IL (ASTM C595), II, or I/II, grey or white; fresh and free of lumps.
2. **Water:** Clean and potable without foreign matter.
3. **Reinforcing Mesh:**
4. SIKAWALL SELF-ADHERING MESH TAPE: a standard weight mesh coated with a pressure sensitive adhesive for use with base coat as reinforcement over acceptable sheathing joints, rough openings and at terminations.
5. SIKAWALL CORNER MESH: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.
6. **SIKAWALL MaxGrip Veneer Adhesive:** A high-strength specially formulated adhesive used to fasten manufactured stone, ceramic tile and thin brick.
7. **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.
	4. **ACCESSORIES**
8. Starter track, L bead, J bead, angled termination bead, casing beads, corner beads, expansion joints and weep screed must comply with ASTM D1784 or C1063 for vinyl.

**PART 3 - EXECUTION**

* 1. **EXAMINATION**
1. **Site Conditions:**
	1. Verify project site conditions under provisions of Section [01039] [ ].
2. **Walls:**
	1. Substrates/Sheathing:
3. Wall sheathing must be securely fastened per applicable building code and sheathing manufacturer’s requirements.
4. Examine surfaces to receive LaHabra materials 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).
	1. Air/weather Barrier:
5. Verify that the air/weather barrier is installed over the sheathing per applicable building code requirements, manufacturers’ specifications and LaHabra details, prior to application of the LaHabra Finescreen 1000 System.
	1. Cement Board Substrates:
6. Acceptable substrates are cement boards which satisfy ASTM C1325 (Type A, Exterior).
7. Cement-board must be securely fastened per manufacturers’ recommendations, applicable building code and project requirements.
8. Walls shall have maximum deflection not to exceed L/360 of span under positive or negative design loads.
9. Cement board must be a single piece around corners of openings.
10. Cement board must be fastened with corrosion resistant fasteners.
11. Cement board and sheathing joints must be offset.
	1. Flashings:
12. Head, jamb and sills of all openings must be flashed with secondary air/weather barrier prior to window/door, HVAC, etc. installation. Refer to Finestop product bulletin and published details.
13. Windows and openings shall be flashed according to design and building code requirements.
14. Individual windows that are ganged to make multiple units require that the heads be continuously flashed and/or the joints between the units must be fully sealed.
	1. Decks:
15. Decks must be properly flashed prior to system application.
16. The system must be terminated a minimum of 1" (25 mm) above all decks, patios and sidewalks, etc.
	1. Utilities: The system must be properly terminated at all lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.
	2. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set forth by the Asphalt Roofing Manufacturers Association (ARMA).
	3. Kick-out flashing must be leak-proof and angled (min 100 degrees) to allow for proper drainage and water diversion.
17. Do not proceed until all unsatisfactory conditions have been corrected.
18. Installation of LaHabra Finescreen 1000 is limited to residential and low rise commercial and institutional construction.
19. Supplemental framing/blocking may be required to secure cement board at vertical control/expansion joints.
	1. **PREPARATION**
20. Protect all surrounding areas and surfaces from damage during application of LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive system.
21. Protect finished work at end of each day to prevent water penetration.
22. Prepare substrates in accordance with manufacturer’s instructions.
	1. **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.**

1. **Air/Water-Resistive Barriers:**
	1. FINESTOP RA/RS/VB: Mix with a clean, rust-free paddle and drill until thoroughly blended. Do not add water.
2. **Base Coat:**
	1. A/BC 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. A/BC 1-STEP Base Coat: Mix and prepare each bag in a 19-liter (5-gallon) pail. Fill the container with approximately 5.6-liters (1.5-gallons) 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 paddle and drill until thoroughly blended. Additional A/BC 1-STEP Base Coat or water may be added to adjust workability.
	3. FINEGUARD 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. **SIKWALL 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. Mix 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.
	4. **APPLICATION**
4. **Accessories:**
5. Attach Window/Door Drip Edge level and per manufacturer’s instructions.
6. Attach starter track per manufacturer's instructions and LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive Typical Details.
7. **Air/Water-Resistive Barrier:**
8. All sheathing joints and windows/openings must be protected, and the air/water-resistive barrier applied in accordance with published Finestop product bulletin and details.
9. 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).
10. Unsatisfactory conditions shall be corrected before application of the FINSTOP air/water-resistive barriers.
11. Apply the SIKAWALL SHEATHING FABRIC and FINSTOP air/water-resistive barrier in accordance with the FINESTOP air/water-resistive barrier product bulletin.
12. Apply the SIKAWALL MAXFLASH in accordance with SIKAWALL MAXFLASH product bulletin.
13. Installed materials shall be checked before continuing system application.
14. Ensure the FINESTOP air/water-resistive barrier or SIKAWALL MAXFLASH overlaps the top flange of the starter track.
15. **SIKAWALL DRAINAGE MAT:** Apply horizontally or vertically over FINSTOP Air/Water-Resistive Barrier ensuring it is free of wrinkles. Abut all vertical and horizontal edge and Secure DRAINAGE MAT to substrate with sufficient building staples or galvanized nails to remain in place prior to application of insulation board.
16. **Cement Board:** Install cement board over secondary weather barrier, securely fastened, per manufacturers’ recommendations, applicable building code and project requirements.
17. **Trim Accessories:** Install per manufacturer’s recommendations. Refer to LaHabra’s Finescreen 1000Trim and Accessories bulletin for accessory placement.
18. **SIKAWALL SELF-ADHERING MESH TAPE (4") / LaHabra Base Coat:**
19. 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 SELF-ADHERING MESH TAPE a minimum 2 1/2" (65 mm).
20. Apply mixed LaHabra base coat to surface of SELF-ADHERING MESH TAPE by troweling from the center to the edges.
21. Allow Base Coat and SELF-ADHERING MESH TAPE to dry prior to application of MAXGRIP.
22. **CORNER MESH:**
23. Install CORNER MESH at corners.
24. Apply CORNER MESH prior to application of reinforcing mesh.
25. Cut CORNER MESH to workable lengths.
26. Apply mixed LaHabra base coat to insulation board at outside corners using a stainless-steel trowel.
27. Immediately place CORNER MESH against the wet base coat and embed the CORNER MESH into the base boat by troweling from the corner; butt edges and avoid wrinkles.
28. **SIKAWALL MAXGRIP – ADHERED VENEER ADHESIVE:**

**Note:** **Allow MaxGrip Veneer Adhesive to cure for 24-hours before applying pointing mortar.**

Prior to installing the adhered veneer, apply selected LaHabra Base Coat or MAXGRIP veneer mortar as a skim coat over cement board sheathing at approximately 1/6” (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.

1. Thin brick veneer: Spread MAXGRIP VENEER ADHESIVE onto the back of bricks in a continuous layer nominally 3/16” to ¼” (5 - 6mm) thick and press bricks firmly into place on the substrate.
2. Stone veneer: Apply MAXGRIP VENEER ADHESIVE to the back of clean stone veneer in a continuous layer nominally ¼” 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 MAXGRIP between units.
3. Tile: Apply MAXGRIP VENEER ADHESIVE as a skim coat over cement board at approximately 1/16” (1.6mm) thick. Apply only to an area that can be covered with tile before the MAXGRIP VENEER ADHESIVE skim coat dries. Installation should proceed in accordance with ANSI A 108.5 (the type and size of the tile will dictate adhesive application.)
	1. **CLEANING**
4. Clean work under provisions of Section [01 74 00] [ ].
5. Clean adjacent surfaces and remove excess material, droppings, and debris.
	1. **PROTECTION**
6. Protect materials from rain, snow and frost for 48 - 72 hours following application.
7. Protect installed construction under provisions of Section [01 76 00] [ ].

**END OF SECTION**

**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/lahabra 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/](https://eur06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fusa.sika.com%2F&data=05%7C02%7Cnazmin.washington%40mbcc-group.com%7C7e0bfa0e724e455d4f3a08dc00bf4fa4%7Cad4af8a01f704297ad9a690073727036%7C0%7C0%7C638386068888688878%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=j2yiUpsz8vMqDWOyZZ25ABVJsQF%2BatjWYlXiV3Nv8tw%3D&reserved=0).