

Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System – Section 07 24 23

High-impact resistant, water-managed wall system incorporating PermaBASE CI™ polyiso insulated cement board 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 Specifications for Masonry Structures* do not place a specific height limit on this application. However local building codes 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.

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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. Substrate deflection should be limited based on recommendations of the veneer manufacturer or local building codes but in no case shall deflection be more than L/360 under positive and negative design wind loads.
2. Design for wind load in conformance with local code requirements.

B. Substrate Systems

1. This specification is intended for applications on PermaBASE CI™ Insulated Cement Board by PermaBASE® Building Products, LLC provided by National Gypsum Company (hereinafter “PermaBASE CI”). Installation details for the PermaBASE CI substrate shall be by others. PermaBASE CI shall be installed 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 DensGlass® exterior sheathing and DensElement (sheathing only), gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB or Huber Zip (sheathing only).
2. The substrate systems shall be engineered with regard to structural performance by others.

C. Moisture Control

1. Prevent the accumulation of water behind the Finescreen 1000 CI with MaxGrip Veneer Adhesive system, 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

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wall assembly, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, and at the base of the wall and anywhere else required by local code.

- b. Air Leakage Prevention: Provide continuity of air barrier system at foundation, roof, windows, doors and other penetrations through the system with connecting and compatible air barrier components to minimize condensation and leakage caused by air movement.
- c. Vapor Diffusion and Condensation: Perform a dew point analysis of the wall assembly to determine the potential for accumulation of moisture in the wall assembly as a result of water vapor diffusion and condensation. Adjust insulation thickness and/or other wall assembly components accordingly to minimize the risk of condensation. Avoid the use of vapor retarders on the interior side of the wall in warm, humid climates.

D. System Joints

1. Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
2. Sealant joints are required at all penetrations through the Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Finescreen 1000 CI with MaxGrip Veneer Adhesive wall system 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 joint placement, width and design.
3. For a list of acceptable sealants refer to Acceptable Sealants for use with LaHabra Wall Systems technical bulletin.

E. Grade Condition

1. Finescreen 1000 CI 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 6" (152mm) clearance above grade or as required by code, a minimum 1" (25mm) clearance above finished grade (sidewalk/concrete flatwork).

F. 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 CI with MaxGrip Veneer Adhesive Wall System.

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.

1.01 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 such work is specifically mentioned herein.

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- B. Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System: composite wall system consisting of Finestop air/water resistive barrier, SikaWall Drainage Mat, LaHabra base coat, LaHabra reinforcing mesh and SIKAWALL MaxGrip Veneer Adhesive.
- C. LaHabra 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 LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive wall system as manufactured by Sika, Lyndhurst, NJ.

1.02 RELATED SECTIONS

- A. Section 05 40 00 Cold-formed metal framing: Light gauge load-bearing metal framing
- B. Section 06 00 10 Plywood Substrate
- C. Section 06 11 00 Wood Framing
- D. Section 07 19 50 Air Barriers
- E. Section 07 62 00 Sheet Metal Flashing and Trim: Perimeter Flashings
- F. Section 07 65 00 Flexible Flashing
- G. Section 07 90 00 Sealants
- H. Section 08 00 00 Doors and windows
- I. Section 09 10 00 Metal Support Systems
- J. Section 09 11 00 Non-load-bearing wall framing: Non-load-bearing metal framing systems
- K. Section 09 25 00 Exterior Gypsum substrates

1.03 REFERENCES

- A. ASTM C150 Specification for Portland cement.
- B. ASTM D1682 Test for Break Load and Elongation of Textile Fabrics.
- C. ASTM E84 Tests for Surface Burning Characteristics of Building Materials.
- D. ASTM G23 Operating Light and Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Non-metallic Materials.
- E. ASTM G53 Operating Light and Water Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials.
- F. ASTM C67 Sampling and Testing Brick and Structural Clay Tile.
- G. ASTM B117 Standard Method of Salt Spray (Fog) Testing.
- H. ASTM D968 Abrasion Resistance of Organic Coatings by Falling Abrasive.
- I. FS TT-C-555B Coating Textured for Interior and Exterior Masonry Surfaces.
- J. MIL-Y-114OG Yarn, Cord, Sleeving, Cloth and Tape-Glass.
- K. Mil. Std. 810B Mildew Resistance (Method 508)
- L. ASTM E96 Water Vapor Transmission (Method B)
- 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
- 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
- W. UL ER22158-02 PermaBASE CI Evaluation Report

1.04 DEFINITIONS

LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System: 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.

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1.05 SUBMITTALS

- A. Submit under provisions of Section [01300] [01340].
- B. Product Data: Provide data on LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive System materials, product characteristics, performance criteria, limitations and durability.
- C. Shop Drawings: Indicate wall joint pattern and joint details, thickness, and installation details.
- D. Certificate: System manufacturer's approval of applicator.
- E. Sealant: Sealant manufacturer's certificate of compliance with ASTM C920.
- F. 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.

1.06 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the industry, with more than 1000 completed cement board stucco projects.
- B. Applicator: Approved by Sika in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements for finish system.
- D. Field Samples:
 1. Provide under provisions of Section [01400] [].
 2. Prepare each sample panel using the same tools and techniques to be used for the actual application.
 3. Locate sample panel where directed.
 4. Accepted sample panel [\[may\]](#) [\[may not\]](#) remain as part of the work.
 5. Field samples shall be comprised of all wall assembly components including substrates, Finestop air/water-resistive barrier, SIKAWALL DRAINAGE MAT, LaHabra base coat, LaHabra/SikaWall reinforcing mesh, SIKAWALL MAXGRIP VENEER ADHESIVE, adhered veneer and typical sealant/flashing conditions.

E. Testing:

1. General Air/Water-Resistive Barrier Minimum Performance:

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

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

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

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

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

4. Finescreen 1000 CI with MaxGrip Veneer Adhesive System and Component Performance:

TEST	METHOD	CRITERIA	RESULTS
Transverse Wind-load	ASTM E330	Steel stud framing (20 gauge, 3 5/8") @ 16"o.c.,	Maximum allowable transverse load: +/- 36 psf (+/- 1723 Pa)
Transverse Wind-load	ASTM E330	Wood assembly (2" x 4") @ 16"o.c.	Maximum allowable transverse load: +/- 40.8 psf (+/- 1953 Pa)
Radiant Heat Exposure	NFPA 268	No ignition at 20 minutes	Met test criteria.
Intermediate Scale Multi-story Fire Test	NFPA 285 / UBC Standard 26-9	1. Resist flame propagation over the exterior surface 2. Resist vertical spread of flame within combustible core/component of panel from one story to the next	Met test criteria

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		3. Resist vertical spread of flame over the interior surface from one story to the next 4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces	
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)

5. 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 151 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.

6. Reinforcing Mesh Testing:

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)

7. PermaBASE CI Physical Properties per National Gypsum:

TEST	METHOD	1 Inch	2 Inch	3 Inch
Dimensional Stability	ASTM D2126	<0.5%	<0.5%	<0.5%
Water Absorption	ASTM D209	<5.0%	<5.0%	<5.0%
Water Vapor Transmission	ASTM E96	<1.5 perms	<1.5 perms	<1.5 perms
Flame Spread	ASTM E84	<25	<25	<25
Smoke Development	ASTM E84	<450	<450	<450
R-Value	ASTM C518	4	10	16
Dimensions	ASTM C473	1" x 4' x 8'	2" x 4' x 8'	3" x 4' x 8'
Weight		2.2 lbs. / sq. ft	2.4 lbs. / sq. ft	2.6 lbs. / sq. ft

1.07 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 MAXFLASH at a minimum of 40F. In cold weather, keep containers at room temperature for at least 24 hours before using.
- Store Reinforcing Mesh, MAXGRIP, SHEATHING FABRIC and FLASH SEAL NP flexible flashing in a cool, dry place protected from exposure to moisture.

1.08 PROJECT/SITE CONDITIONS

- 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

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(49°C).

- B. Do not apply Sika materials to frozen surfaces.
- C. Maintain ambient temperature at or above 40°F/4°C during and at least 24 hours after Sika materials installation and until dry.
- D. Protect Sika materials from precipitation for 24 hours and until dry.

1.09 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive system with related work of other sections.
- B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the System.
- C. Coordinate and schedule installation of air/weather barrier, windows, doors, AC units etc.

1.10 WARRANTY

- A. Provide Sika standard warranty for LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System installations under provisions of Section [01 70 00].
- B. Comply with Sika notification procedures to assure qualification for warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System manufactured by Sika Corporation US.

2.02 MATERIALS

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

A. Air/water-Resistive Barrier Components:

- 1. Air/Water-Resistive Barrier: **(Required, Select a, b or c)**
 - a. FINESTOP RA: A one-component fluid-applied vapor permeable air/water-resistive barrier.
 - b. FINESTOP RS: A one-component fluid-applied vapor permeable air/water-resistive barrier for use with airless spray equipment.
 - c. FINESTOP VB: A one-component fluid-applied vapor impermeable air/water-resistive barrier.
- 2. Rough Opening and Joint Treatment: **(Required if a b or c is selected above, select a or b)**
 - a. SIKAWALL SHEATHING FABRIC: A spun-bonded non-woven reinforced polyester web for use with Finestop fluid applied air/weather-resistive barriers.
 - b. SIKAWALL MAXFLASH: A one-component elastomeric material for use as a flexible flashing membrane.
- 3. SIKAWALL FLASH SEAL NP Transitional Membrane / Expansion Joint Flashing: A 30-mil thick self-adhering and self-sealing composite membrane of polyester fabric and butyl adhesive. Compatible with Finestop fluid air/weather-resistive barriers.

B. SIKAWALL DRAINAGE MAT: Three-dimensional drainage core consisting of fused, entangled filaments.

C. **PermaBASE CI by National Gypsum(Required, Select One)**

- 1. 1 inch thick – R4
- 2. 2 inches thick – R10
- 3. 3 inches thick – R16

D. **Base Coats: (Required, Select One or More)**

- 1. A/BC: A 100% acrylic base coat, field-mixed with Portland cement. It has a creamy texture that is easily spread.
- 2. AB/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 Portland cement.

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

E. Portland cement: Conform to ASTM C150, Type I, IL (ASTM C595), II, or I/II, grey or white; fresh and

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[free of lumps.](#)

F. Water: Clean and potable without foreign matter.

G. Reinforcing Mesh:

1. 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.
2. [SIKAWALL CORNER MESH: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.](#)

H. SIKAWALL MAXGRIP VENEER ADHESIVE: A high-strength specially formulated adhesive used to fasten manufactured stone, ceramic tile and thin brick

I. 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. Pointing mortar (as applicable): per the adhered veneer manufacturers recommendations for the specific veneer installed.

2.03 ACCESSORIES

A. Starter track, L bead, J bead, angled termination bead, casing beads, corner beads, expansion joints and weep screed must comply with ASTM D1784 for vinyl; ASTM A525 and ASTM A526 for galvanized; ASTM B69 for zinc. Reference accessory manufacturer's information for compliance with applicable material standards

PART 3 - EXECUTION

3.01 EXAMINATION

A. Site Conditions:

1. Verify project site conditions under provisions of Section [01039] [].

B. Walls:

1. Substrates/Sheathing:
 - a. Wall sheathing must be securely fastened per applicable building code and sheathing manufacturer's requirements.
 - b. 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).
2. Air/weather Barrier:
 - a. 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 CI with MaxGrip Veneer Adhesive System.
3. Cement Board Substrates:
 - a. Acceptable substrates; PermaBASE CI by National Gypsum.
 - b. Cement Board must be securely fastened per National Gypsum's recommendations, applicable building code and project requirements.
 - c. Walls shall have maximum deflection not to exceed L/360 of span under positive or negative design loads.
 - d. Cement Board must be a single piece around corners of openings.
 - e. Cement Board must be fastened with corrosion resistant fasteners.
 - f. Cement Board and sheathing joints must be offset.
4. Flashings:
 - a. 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.
 - b. Windows and openings shall be flashed according to design and building code requirements.

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- c. 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.
 5. Decks:
 - a. Decks must be properly flashed prior to system application.
 - b. The system must be terminated a minimum of 1" (25 mm) above all decks, patios and sidewalks, etc.
 6. Utilities: The system must be properly terminated at all lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.
 7. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set forth by the Asphalt Roofing Manufacturers Association (ARMA).
 8. Kick-out flashing must be leak-proof and angled (min 100 degrees) to allow for proper drainage and water diversion.
- C.** Do not proceed until all unsatisfactory conditions have been corrected.
- D.** Supplemental framing/blocking may be required to secure cement board at vertical control/expansion joints.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage during application of LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive System.
- B. Protect finished work at end of each day to prevent water penetration.
- C. Prepare substrates in accordance with manufacturer's instructions.

3.03 MIXING

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

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

B. 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.

C. 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 5-gallon (19-liter) pail. Fill the container with approximately 1.5-gallons (5.6-liters) of clean, potable water. Add Base Coat in small increments, mixing after each additional increment. Mix Base Coat and water with a clean, rust-free 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.

D. 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,

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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:

1. Attach Window/Door Drip Edge level and per manufacturer's instructions.
2. Attach starter track per manufacturer's instructions and LaHabra Finescreen 1000 with MaxGrip Veneer Adhesive Typical Details.

B. LaHabra FINESTOP Air/Water-Resistive Barrier:

1. 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.
2. Substrate shall be dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than ¼" in 10' (6.4 mm in 3 m).
3. Unsatisfactory conditions shall be corrected before application of the Finestop air/water-resistive barriers.
4. Apply the SIKWALL SHEATHING FABRIC and Finestop air/water-resistive barrier in accordance with the Finestop air/water-resistive barrier product bulletin.
5. Apply the MAXFLASH in accordance with MAXFLASH product bulletin.
6. Installed materials shall be checked before continuing system application.
7. Ensure the Finestop air/water-resistive barrier or MAXFLASH overlaps the top flange of the starter track.

C. SIKAWALL DRAINAGE MAT: Apply horizontally or vertically over Finestop Air/Water-Resistive Barrier ensuring DRAINAGE MAT 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 cement board.

D. PermaBASE CI Cement Board: Install cement board over secondary weather barrier, securely fastened, per manufacturers' recommendations, applicable building code and project requirements.

E. Trim Accessories: Install per manufacturer's recommendations and project details. .

F. SIKAWALL SELF-ADHERING MESH TAPE (4") / LaHabra Base Coat:

1. Center the SELF-ADHERING MESH TAPE (4") over all cement board joints and terminations and firmly press while unrolling. Ensure SELF-ADHERING MESH TAPE is continuous, void of wrinkles. Overlap SELF-ADHERING MESH TAPE a minimum 2 1/2" (65 mm).
2. Apply mixed LaHabra base coat to surface of SELF-ADHERING MESH TAPE by troweling from the center to the edges.
3. Allow Base Coat and SELF-ADHERING MESH TAPE to dry prior to application of MAXGRIP.

G. SIKAWALL CORNER MESH:

1. Install CORNER MESH at corners. Apply CORNER MESH prior to application of reinforcing mesh.
2. Cut CORNER MESH to workable lengths. Apply mixed LaHabra base coat to cement board at outside corners using a stainless-steel trowel. Immediately place CORNER MESH against the wet base coat and embed the CORNER MESH into the base coat by troweling from the corner; butt edges and avoid wrinkles.

H. SIKAWALL MAXGRIP VENEER ADHESIVE:

Note: [MAXGRIP VENEER ADHESIVE shall be applied and veneer installed such that the MAXGRIP is free of voids. Allow MaxGrip Veneer Adhesive to cure for 24-hours before applying pointing mortar.](#)

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Prior to installing the adhered veneer, apply selected LaHabra base coat or MAXGRIP VENNER ADHESIVE 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 VENNER 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 MAXGRIP VENNER 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 MAXGRIP VENNER 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 installed construction under provisions of Section [01 76 00] [].

END OF SECTION

LaHabra Finescreen 1000 CI with MaxGrip Veneer Adhesive Wall System

WARRANTY

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

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. SIKASHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL 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 SIKAp roducts are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/>.

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