**Finescreen 1000 System – Section 07 24 23**

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

reinforced base coat and 100% acrylic polymer exterior 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.

**Designing and Detailing a Finescreen 1000 Wall System**

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); Huber Zip (sheathing only) Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.
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 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. Locate control joints approximately every 600 ft.2 (56 m2) of wall surface area with maximum uncontrolled length or width of 24 lin. ft. (7 m) and a maximum uncontrolled length-to-width ratio of 2 1/2:1. At dissimilar substrates, a deep control joint (Plastic Components type product number 22027-16 corner joint or equal) must be used. If building expansion/contraction is anticipated, a true expansion joint should be utilized. Control joints mounted on the surface of the cement board must coincide with cement board sheathing joints (based on running bond application of the cement board, every other sheet of cement board must be cut to accommodate vertical control joints). For control joints mounted on the underlying substrate of the cement board, trim placement does not need to coincide with the joints in the underlying sheathing. For non-nailable substrates additional framing will likely be needed for support/attachment of the cement board at vertical control joints. For additional information reference the LaHabra Finescreen 1000 Trim Accessories technical bulletin.
12. Sealant joints are required at all penetrations through the Finescreen 1000 Wall System (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Finescreen 1000 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 and control joint placement, width and design. Sealant joints are required at all penetrations through the LaHabra Finescreen 1000 system (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to LaHabra Finescreen1000 wall system typical details.**

1. For a list of acceptable sealants refer to Acceptable Sealants for use with LaHabra Wall Systems technical bulletin.
2. **Grade Condition:** Finescreen 1000 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).
3. **Trim, Projecting Architectural Features**

**NOTE TO SPECIFIER: Installation of the Finescreen 1000 Wall System with decorative shapes created with framing/cement board or that incorporate EPS insulation board outside the slope guidelines referenced in this specification may still qualify for a standard warranty; however, low sloping shape conditions are subject to extreme heat, increased maintenance and premature deterioration of the system shall be expected and any deleterious effects caused by the lack of slope will not be the responsibility of Sika. LaHabra Wall Systems are designed and tested to be applied to vertical surfaces. The design professional has the option to build according to his/her project needs. The design professional must also consider geography, climate, building orientation, wall orientation and adjacent building components when designing with trim shapes that incorporate EPS insulation board. The slope guidelines referenced below are provided to offer assistance to the owner and/or design professional. Final design of any building is the responsibility of the design professional.**

1. Minimum slope for all projections shall be 1:2 (27º) with a maximum length of 12" (30.5 cm) [e.g. 6" in 12" (15 cm in 30.5cm)]. Increase slope for northern climates to prevent accumulation of ice/snow on the surface.
2. LaHabra Wall Systems were designed and tested to be applied to vertical surfaces. As the slope of the wall system application decreases, the chance for premature deterioration of any wall system increases.
3. Low sloping conditions are subject to more extreme heat. Low sloped areas are known to produce an increase in wall surface temperature which can lead to accelerated weathering of the low sloped surface.
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 Wall System and when LaHabra coatings are completely dry.

**TECHNICAL INFORMATION**

Consult Sika Facades’ Technical Services Department for specific recommendations concerning all other applications. 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. Cement Board Stucco wall system: composite wall system consisting of LaHabra air/water resistive barrier or other code approved secondary air/weather barrier, SikaWall DRAINAGE MAT (optional), LaHabra Base Coat, LaHabra Reinforcing Mesh and LaHabra Finish Coat.
3. 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.
4. The system type shall be LaHabra Finescreen 1000 wall system 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)
    1. **DEFINITIONS**

LaHabra Finescreen 1000 System: Exterior assembly comprised of LaHabra air/water-resistive barrier or other code approved secondary air/weather barrier, LaHabra Base Coat, LaHabra Reinforcing Mesh and LaHabra Finish Coat.

* 1. **SUBMITTALS**

1. Submit under provisions of Section [01300] [01340].
2. Product Data: Provide data on LaHabra Finescreen 1000 System materials, product characteristics, performance criteria, limitations and durability.
3. Shop Drawings: Indicate wall joint pattern and joint details, thickness, and installation details.
4. Samples: Submit [two] [x] [millimeter] [inch] size samples of LaHabra Finescreen 1000 System illustrating Finish Coat color and texture range.
5. Certificate: System manufacturer’s approval of applicator.
6. Sealant: Sealant manufacturer’s certificate of compliance with ASTM C920.
7. 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**
8. Manufacturer: More than 10 years in the EIFS and Stucco industry, with more than 1000 completed cement board stucco projects.
9. Applicator: Approved by Sika in performing work of this section.
10. Regulatory Requirements: Conform to applicable code requirements for finish system.
11. Field Samples:
12. Provide under provisions of Section [01400] [ ].
13. Construct one field sample panel for each color and texture, [x] [meters] [feet] in size of system materials illustrating method of attachment, LaHabra Finish, color and texture.
14. Prepare each sample panel using the same tools and techniques to be used for the actual application.
15. Locate sample panel where directed.
16. Accepted sample panel [may] [may not] remain as part of the work.
17. Field samples shall be comprised of all wall assembly components including substrates, air/water-resistive barrier, SIKAWALL DRAINAGE MAT (if specified), base coat, reinforcing mesh, primer (if specified), finish coat and typical sealant/flashing conditions.
18. Testing:
19. 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 thickness  Finestop-RS 18 Perms (grains/Hr. in Hg. ft2) @ 12 mils wet film thickness  Finestop-RA/RS - 14 Perms (grains/Hr. in Hg. ft2) @ 20 mils wet film thickness  Finestop-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 < 25  Smoke Development < 450 | Meets Class A: Flame spread =15  Smoke 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 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 |

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 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 |

1. Finescreen 1000 System 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 surface  2. Resist vertical spread of flame within combustible core/component of panel from one story to the next  3. Resist vertical spread of flame over the interior surface from one story to the next  4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces | Met test criteria |
| Surface Burning | ASTM E84 / UL 723 | Flame spread < 25  Smoke developed < 450 | All components of the system meet Class A performance (FS < 25; SD < 450) |
| Abrasion Resistance | ASTM D968 | No Cracking or loss of film integrity at 528 qt. (500L) of sand | Finish Coat not worn through after 686 liters of falling sand |
| Accelerated Weathering | ASTM G 153 (formerly G23) | No deleterious effects after 2000 hours. | Pass |
| Freeze-Thaw | AC59 | No deleterious effects after 10 cycles | Pass 60 cycles |
| Mildew Resistance | Mil Std 810B Method 508 | No fungus growth after 28 days | Pass |
| Salt Fog Resistance | ASTM B117 | No deleterious effects after 300 hours | Pass |
| Water Resistance | ASTM D 2247 | No deleterious effects after 14 days exposure | Pass |

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. 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 (50°F/10°C GRANITE AND STONE finish).
     5. Store MAXFLASH at a minimum of 40°F. In cold weather, keep containers at room temperature for at least 24 hours before using.
     6. Store insulation boards flat and protected from direct sunlight and extreme heat.
     7. Store Reinforcing Mesh, SHEATHING FABRIC and FLASH SEAL NP flexible flashing in a cool, dry place protected from exposure to moisture.
  2. **PROJECT/SITE CONDITIONS**

1. Do not apply Sika material in ambient temperatures below 40°F/4°C (50°F/10°C for GRANITE AND STONE Finish). Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F/4°C (50°F/10°C for GRANITE AND STONE Finish) prevail. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
2. Do not apply materials to frozen surfaces.
3. Maintain ambient temperature at or above 40°F/4°C (50°F/10°C for GRANITE AND STONE Finish) during and at least 24 hours after material installation and until dry.
4. Under average conditions [70 °F (21 °C), 50% Relative Humidity] finish will be dry within 24 hours. Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and finish thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time. Protect finish from rain or other precipitation and temperatures less than 40°F (4°C) for a minimum of 24 hours or until dry.
   1. **SEQUENCING AND SCHEDULING**
5. Coordinate and schedule installation of LaHabra Finescreen 1000 with related work of other sections.
6. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the System.
7. Coordinate and schedule installation of air/weather barrier, windows, doors, AC units etc.
   1. **WARRANTY**
8. Provide Sika material warranty for LaHabra Finescreen 1000 wall system installations under provisions of Section [01 70 00]. Reference LaHabra Warranty Schedule technical bulletin for specific information.
9. Comply with Sika notification procedures to assure qualification for warranty.

**PART 2 - PRODUCTS**

* 1. **MANUFACTURERS**

1. LaHabra Finescreen 1000 Wall System 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 LaHabra Wall Systems Technical Service Department for further assistance.**

1. **Air/water-Resistive Barrier Components:**
   * + 1. Air/Water-Resistive Barrier: ***(Required, Select a, b, c or d)***
       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. Code approved secondary air/water resistive barrier.
       6. Rough Opening and Joint Treatment: **(Required if a b or c is selected above, select a or b)**
          1. SIKAWALL SHEATHING FABRIC: A spun-bonded non-woven reinforced polyester web for use with FINESTOP fluid applied air/weather-resistive barriers.
          2. SIKAWALL MAXFLASH: A one-component elastomeric material for use as a flexible flashing membrane.
       7. SIKAWALL FLASH SEAL NP Transitional Membrane / Expansion Joint Flashing: A 20-mil thick self-adhering and self-sealing composite membrane of polyester fabric and butyl adhesive. Compatible with FINESTOP liquid air/weather-resistive barriers.
2. SIKAWALL DRAINGE MAT: Three-dimensional drainage core consisting of fused, entangled filaments.
3. **Base Coats: *(Required, Select One or More)***
   * + - 1. AB/C Base Coat: A 100% acrylic base coat, field-mixed with Portland cement. It has a creamy texture that is easily spread.
         2. AB/C 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.
         4. FINEBUILD: A100% acrylic, fiber-reinforced base coat, adhesive and leveler that is field-mixed with Portland cement.

**NOTE TO SPECIFIER: Portland cement is not required if AB/C 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:** Balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with LaHabra Base Coats. ***(Required, Select One or More)***
4. STANDARD MESH 4: Standard weight, 4 oz.
5. SIKAWALL INTERMEDIATE 6: Standard/medium weight, 6 oz.
6. SIKAWALL INTERMEDIATE 12: Intermediate weight, 12 oz.
7. SIKAWALL CORNER MESH: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.
8. 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 at terminations.
9. **SIKAWALL TINTED PRIMER (Optional):** A 100% acrylic-based primer that helps alleviate shadowing and enhances performance of the LaHabra Wall Systems. Color to closely match the selected LaHabra Finish Coat color.
10. **Finish Coat: *(Required, Select One or More Finishes and Textures)***
11. PEBBLETEX Finish: 100% acrylic polymer finishes with advanced technology to improve long-term performance and dirt pick-up resistance; air cured, compatible with base coat; Finestone finish

color [ ] as selected; finish texture:

1. NATURAL SWIRL: Has a medium “worm-holed” appearance which is achieved by the random aggregate sizes in the Finish. The “worm-holed” look can be circular, random, vertical or horizontal.
2. LIMESTONE: Utilizes uniformly sized aggregates for a uniform, fine texture.
3. FINETEX: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel.
4. MOJAVE: Provides a uniform, “pebble” appearance.
5. PEBBLETEX TERSUS Finish: Modified acrylic based finish with water repellent properties, compatible with base coat; LaHabra Finish color [ ] as selected; finish texture:
6. NATURAL SWIRL: Has a medium “worm-holed” appearance which is achieved by the random aggregate sizes in the Finish. The “worm-holed” look can be circular, random, vertical or horizontal.
7. LIMESTONE: Utilizes uniformly sized aggregates for a uniform, fine texture.
8. FINETEX: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel.
9. MOJAVE: Provides a uniform, “pebble” appearance.
10. Specialty Finishes: 100% acrylic polymer finishes that can be hand-troweled to simulate stone or create a time-honored, mottled tone-on-tone look that achieves a soft and weathered patina over time.
11. SIKAWALL ENCAUSTO VERONA: Utilizes uniformly sized aggregate to achieve a free-formed, flat texture. It can be used to achieve a mottled look and unlimited tone on tone designs by combining multiple colors.
12. SIKAWALL METALLIC: Has a pearlescent appearance. It utilizes uniformly sized aggregates for a uniform fine texture.
13. SIKAWALL GRANITE AND STONE: Is a factory-mixed, reflective stone finish consisting of colored aggregate and large black mica flakes in a 100% acrylic transparent binder that provides a classic granite or marble-like textured finished appearance.
14. SIKAWALL CHROMA Finish: 100% acrylic polymer based finish with integrated high performance colorants for superior fade resistance, compatible with base coat; LaHabra Finish color [ ] as selected; finish texture:
    1. F1.0: Utilizes uniformly sized aggregates for a uniformly fine texture.
    2. M1.5: Provides a uniform “pebble” appearance.
    3. R1.5: Has a medium “worm-holed” appearance which is achieved by the random aggregate sizes in the Finish. The “worm-holed” look can be circular, random, vertical or horizontal.
    4. **ACCESSORIES**
15. 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.

**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 Sika 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.
12. Cement board ends and edges and terminations to trim accessories shall be butted closely.
    1. Flashings:
13. 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.
14. Windows and openings shall be flashed according to design and building code requirements.
15. 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:
16. Decks must be properly flashed prior to system application.
17. 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.
18. Do not proceed until all unsatisfactory conditions have been corrected.
19. Installation of LaHabra Finescreen 1000 is limited to residential and low rise commercial and institutional construction.
20. Supplemental framing/blocking may be required to secure cement board at vertical control/expansion joints.
    1. **PREPARATION**
21. Protect all surrounding areas and surfaces from damage and staining during application of LaHabra Cement-Board Stucco 1000 System.
22. Protect finished work at end of each day to prevent water penetration.
23. 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. AB/C 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. AB/C 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 AB/C 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.
   4. FINEBUILD 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. **SIKAWALL TINTED PRIMER**: Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.
4. **Finishes:** PEBBLETEX, PEBBLTEX TERSUS, CHROMA, and ENCAUSTO VERONA Finish - Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.
5. **SIKAWALL GRANITE AND STONE:** Gently mix the contents of the pail for 1 minute using a low RPM ½” drill equipped with a mixing paddle such as a Demand Twister or a Wind-Lock B-MEW, B-M1 or B-M9.
   1. **APPLICATION**
6. **Accessories:**
7. Attach Window/Door Drip Edge level and per manufacturer’s instructions.
8. Attach starter track per manufacturer's instructions and *LaHabra Finescreen 1000 Typical Details.*
9. **Air/Water-Resistive Barrier:**
10. Finestop Air/Water Resistive Barrier:
11. All sheathing joints and windows/openings must be protected, and the air/water-resistive barrier applied in accordance with the published Finestop product bulletin and details.
12. 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).
13. Unsatisfactory conditions shall be corrected before application of the LaHabra air/water-resistive barriers.
14. Apply the SHEATHING FABRIC and FINESTOP air/water-resistive barrier in accordance with the LaHabra air/water-resistive barrier product bulletin.
15. Apply the MAXFLASH in accordance with the product bulletin.
16. Installed materials shall be checked before continuing system application.
17. Ensure the LaHabra air/water-resistive barrier or MAXFLASH overlaps the top flange of the starter track.
18. Water-Resistive Barrier (By Others):
    1. Install according to the specific water resistive barrier manufacturer’s specifications and all applicable building code requirements. The water resistive barrier shall be free of any damage such as holes or breaks and must be applied to all surfaces to receive the LaHabra Finescreen 1000 Wall System. Wrap the water resistive barrier into rough openings (doors, windows, etc.) in accordance with manufacturer’s specifications and typical details. Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.
19. **SIKAWALL DRAINAGE MAT:** Apply horizontally or vertically over LaHabra 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.
20. **Cement Board:** Install cement board over secondary weather barrier, securely fastened, per manufacturers’ recommendations, applicable building code and project requirements.
21. **Trim Accessories:** Install per manufacturer’s recommendations. Refer to *Finescreen 1000* *Trim and Accessories* bulletin for accessory placement.
22. **SIKAWALL SELF-ADHERING MESH TAPE (4"):**
23. 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).
24. Apply mixed LaHabra base coat to surface of SELF-ADHERING MESH TAPE by troweling from the center to the edges.
25. Allow base coat and SELF-ADHERING MESH TAPE to dry prior to application of LaHabra reinforcing mesh and base coat.
26. **SIKAWALL CORNER MESH:**
27. Install at corners, prior to application of reinforcing mesh.
28. Apply mixed LaHabra base coat to insulation board at outside corners using a stainless-steel trowel. Immediately place mesh against the wet base coat and embed into the base boat by troweling from the corner; butt edges and avoid wrinkles.
29. After base coat is dry and hard, apply a layer of STANDARD MESH 4, INTERMEDIATE 6 or 12 reinforcing mesh over the entire surface of the CORNER MESH in accordance with 3.04 F.
30. **Reinforcing Mesh:** Standard or Medium Impact Resistance Reinforcing Mesh: STANDARD MESH 4 INTERMEDIATE 6 and INTERMEDIATE 12:
31. Install LaHabra reinforcing mesh where indicated on drawings.
32. Apply mixed LaHabra base coat to entire surface of the cement board with a stainless-steel trowel to embed the reinforcing mesh.
33. Immediately place LaHabra reinforcing mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges.
34. Lap reinforcing mesh 2 ½" (64 mm) minimum at edges.
35. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
36. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
37. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours).
38. **SIKAWALL TINTED PRIMER:**
39. Apply primer to the base coat/reinforcing mesh with a sprayer, ⅜" (10 mm) nap roller, or good quality latex paint brush at a rate of approximately 150-250 ft² per gallon (3.6–6.1m² per liter). Primer shall be dry to the touch before proceeding to the LaHabra finish coat application.
40. **Finish Coat:** PEBBLETEX, PEBBLETEX TERSUS and CHROMA.
41. Apply finish directly to the base coat with a clean, stainless-steel trowel.
42. Apply and level finish during the same operation to a minimum obtainable thickness consistent with uniform coverage. Maintain a wet edge on finish by applying and texturing continually over the wall surface.
43. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Float finish to achieve final texture.
44. **Specialty Finish:**
45. Apply SIKAWALL TINTED PRIMER to the substrate in accordance with the current product bulletin. Primer shall be of the corresponding color for the selected finish color. Allow the primer to dry to the touch before proceeding with finish application.
46. Apply a tight coat of finish with a clean, stainless-steel trowel. Maintain a wet edge on finish by applying and leveling continually over the wall surface.
47. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of finish.
48. Use a stainless-steel trowel and apply the second coat of finish. Achieve final texture using circular motions. Total thickness of finish may be between 1/16" (1.6 mm) and 1/8" (3.2 mm).
    1. **CLEANING**
49. Clean work under provisions of Section [01 74 00] [ ].
50. Clean adjacent surfaces and remove excess material, droppings, and debris.
    1. **PROTECTION**
51. Protect base coat from rain, snow and frost for 48 - 72 hours following application.
52. 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).