

Sika Fastwall® 100 Stucco System – Section 09 24 00

One coat cement plaster stucco system featuring SikaWall Fastwall Stucco Base.

INTRODUCTION

This specification has been assembled to enable the design professional to select or delete sections to suit the project requirements and is intended to be used in conjunction with Sika typical details, product bulletins, technical bulletins, etc.

DESIGN RESPONSIBILITY

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. Sika Corporation US (herein referred to as "Sika") has prepared guidelines in the form of specifications, typical application details, and product bulletins to facilitate the design process only. Sika is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or the like, whether based upon the information provided by Sika or otherwise, or for any changes which the purchasers, specifiers, designers or their appointed representatives may make to Sika published comments.

Designing and Detailing a Sika Fastwall 100 Stucco System

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

A. Wind Load

1. Maximum deflection not to exceed L/360 under positive or negative design loads.
2. Design for wind load in conformance with local code requirements.

B. Substrate Systems:

1. Acceptable substrates are PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including, Weather Defense™ Platinum sheathing, GreenGlass® sheathing, e²XP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing, DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB, Huber Zip (sheathing only).
2. Painted and otherwise coated surfaces of brick, unit masonry, and concrete shall be inspected and prepared before application. The applicator shall verify that the proposed substrate is acceptable prior to the Sika Fastwall 100 Stucco System installation.
3. The substrate systems shall be engineered with regard to structural performance by others. Framing spacing for the Sika Fastwall 100 Stucco system is a maximum 24" o.c (610 mm); maximum 16" o.c. (406 mm) when SIKAWALL-9000 PERMALATH 1000 is used.

C. Moisture Control: Prevent the accumulation of water behind the Sika Fastwall 100 Stucco 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, at the base of the wall and anywhere else required by local code or design at the time of installation.
2. The water resistive barrier must be installed over the substrate according to manufacturer's specifications and applicable building code requirements.

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3. Openings must be flashed prior to window/door, HVAC, etc. installation to provide moisture protection of the building frame and interior. Reference water resistive barrier manufacturers' published details and product data sheet.
 4. Air Leakage Prevention: provide continuity of air barrier system at foundation, roof, windows, doors and other penetrations through the system with connecting and compatible air barrier components to minimize condensation and leakage caused by air movement.
- D. Color Selection:** The use of dark colors over EPS insulation trim shapes must be considered in relation to wall surface temperature as a function of local climate conditions. Select Finish Coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with trim shapes that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 160°F (71°C).
- E. Grade Condition:** Sika Fastwall 100 Stucco wall system is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure. Ensure a minimum 4" (101.6mm) clearance above grade or as required by code, a minimum 2" (50.8mm) clearance above finished grade (sidewalk/concrete flatwork).
- F. Trim, Projecting Architectural Features:**
- NOTE TO SPECIFIER:** Installation of the Sika Fastwall 100 Stucco system with trim shapes that incorporate expanded polystyrene (EPS) outside the slope guidelines referenced in this specification may still qualify for a standard warranty; however, increased maintenance and premature deterioration of the trim shapes that incorporate expanded polystyrene (EPS) shall be expected and any deleterious effects caused by the lack of slope will not be the responsibility of Sika. 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 expanded polystyrene (EPS). 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 (27°) 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. The Sika Fastwall 100 Stucco system was 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.
- G. 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 slip tracks in steel frame construction, where substrates change and where structural movement is anticipated. Detail specific locations in construction drawings.
 2. Control joints are recommended at a minimum of every 144 ft² (13 m²) of wall surface area and where specified by the design professional. The maximum uncontrolled length or width is 18 lineal ft. (5.5 lineal m) and a maximum uncontrolled length to width ratio of 2 1/2: 1. Detail specific locations in construction drawings. For additional information reference the Sika *Lath and Plaster Trims* technical bulletin.
NOTE TO SPECIFIER: It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design. Sealant joints are required at all penetrations through the Sika Fastwall 100 Stucco system (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Sika Fastwall 100 Stucco system typical details.
 3. For a list of acceptable sealants refer to *Acceptable Sealants for use with Sika EIFS & Stucco Systems* technical bulletin.
- H. Decks:** The Sika Fastwall 100 Stucco system must be terminated a minimum of 2" (50.8 mm) above all decks, patios, sidewalks, etc.
- I. Coordination with other trades:**
1. Evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent

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trades shall provide scaled shop drawings for review.

2. Air Seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of an air barrier system and must be considered by the design professional in the overall wall assembly design. Install air seals between the primary air/water-resistive barrier and other wall components (penetrations, etc.) in order to maintain continuity of an air barrier system.
3. Provide protection of rough openings in accordance with water-resistive barrier manufacturer's instructions and applicable building code requirements before installing windows, doors, and other penetrations through the wall.
4. Install copings and sealant immediately after installation of the Sika Fastwall 100 Stucco system and when SikaWall coatings are completely dry.

TECHNICAL INFORMATION

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

PART 1 – GENERAL

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.

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 or not such work is specifically mentioned herein.
- B. Sika Fastwall 100 Stucco Wall System: composite wall system of a water-resistive barrier, SIKAWALL-9460 DRAINAGE MAT DF (if specified), SIKAWALL-9000 PERMALATH 1000 or acceptable expanded metal or wire lath, SIKAWALL FASTWALL STUCCO BASE, SikaWall base coat (if specified), SikaWall reinforcing mesh (if specified) and SikaWall Finish Coat.
- C. Sika products are listed in this specification to establish a standard of quality. Any substitutions to this specification shall be submitted to and receive approval from the Architect at least 10 days before bidding. Proof of equality shall be borne by the submitter.
- A. The system type shall be Sika Fastwall 100 Stucco system as manufactured by Sika Corporation US, Lyndhurst, NJ.

1.02 RELATED SECTIONS

- | | |
|---------------------|---------------------------------------|
| A. Section 03 00 00 | Concrete substrate |
| B. Section 04 00 00 | Masonry substrate |
| C. Section 05 40 00 | Cold-formed metal framing |
| D. Section 06 11 00 | Wood framing |
| E. Section 06 16 00 | Sheathing |
| F. Section 07 27 00 | Air barriers |
| G. Section 07 62 00 | Sheet metal flashing and trim |
| H. Section 07 65 00 | Flexible flashing |
| I. Section 07 90 00 | Joint protection |
| J. Section 08 00 00 | Openings |
| K. Section 09 22 00 | Supports for plaster and gypsum board |
| L. Section 09 22 16 | Non-structural metal framing |
| M. Section 09 22 36 | Lath |
| N. Section 09 29 00 | Gypsum board |

1.03 REFERENCES

- | | |
|--------------|---|
| A. ASTM C150 | Standard Specification for Portland Cement |
| B. ASTM C926 | Standard Specification for Application of Portland Cement-Based Plaster |

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C. ASTM C1063	Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
D. ASTM C847	Standard Specification for Metal Lath
E. ASTM C933	Standard Specification for Welded Wire Lath
F. ASTM C1764	Standard Test Methods for Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
G. ASTM C1787	Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
H. ASTM C1788	Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
I. ASTM D226	Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
J. ASTM D1784	Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (PVC) Compounds
K. ICC-ES AC11	ICC-ES Acceptance Criteria Cementitious Exterior Wall Coatings
L. ICC-ES ESR-2564	ICC-ES Evaluation Services Report (SIKAWALL FASTWALL STUCCO BASE SANDED / STUCCO BASE CONCENTRATE)
M. CCRR 0249	Intertek Code Compliance Research Report (SIKAWALL-9000 PERMALATH 1000)

1.04 SUBMITTALS

- A. Submit under provisions of Section [01 33 00]
- B. Product Data: Provide data on Sika Fastwall 100 Stucco System materials, product characteristics, performance criteria, limitations and durability.
- C. Code Compliance: Provide manufacturer's applicable code compliance report.
- D. Samples: Submit [\[two\]](#) [\[x \]](#) [\[millimeter\]](#) [\[inch\]](#) size samples of Sika Fastwall 100 Stucco system design illustrating SikaWall finish coat and texture range.
- E. Certificate: System manufacturer's approval of applicator.
- F. Sealant: Sealant manufacturer's certificate of compliance with ASTM C920.
- G. System manufacturer's typical details, system design guide and related product literature which indicate preparation required, storage, installation techniques, jointing requirements and finishing techniques.

1.05 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the exterior wall systems industry, with more than 1000 completed cement plaster stucco projects.
- B. Applicator: Approved by Sika in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements.
- D. Field Samples
 1. Provide under provisions of Section [01 43 36] [01 43 39].
 2. Construct one field sample panel for each color and texture, [\[x \]](#) [\[meters\]](#) [\[feet\]](#) in size of system materials illustrating method of attachment, surface finish color and texture.
 3. Prepare each sample panel using the same tools and techniques to be used for the actual application.
 4. Locate sample panel where directed.
 5. Accepted sample panel [\[may\]](#) [\[may not\]](#) remain as part of the work.
 6. Field samples shall be comprised of all wall assembly components including substrate, water resistive barrier, SIKAWALL-9460 DRAINAGE MAT DF (if specified), SIKAWALL-9000 PERMALATH 1000 or metal plaster base, SIKAWALL FASTWALL STUCCO BASE, SikaWall base coat (if specified), SikaWall reinforcing mesh (if specified), SikaWall finish coat and typical sealant/flashing conditions.
- E. Testing:
 1. Sika Fastwall 100 Stucco Wall System and Component Performance

SIKAWALL FASTWALL STUCCO BASE:

TEST	METHOD	CRITERIA	RESULTS
Accelerated Weathering	ASTM G153	2000 Hours	No deleterious effect

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Freeze-Thaw Resistance	ICC AC 11	10 cycles	Pass
Transverse Wind Load Resistance	ASTM E330	Meet Design Loads	Refer to ICC-ES ESR-2564
Fire Resistance	ASTM E119	One hour fire	Refer to ICC-ES ESR-2564
Drainage	ICC AC 11	90%	Refer to ICC-ES ESR-2564

Acrylic Finish:

TEST	METHOD	CRITERIA	RESULTS
Accelerated Weathering	ASTM G153 (ASTM G 23) ASTM G154	No deleterious effects at 2000 hours when viewed under 5x magnification	2000 Hours: no deleterious effect
Freeze/Thaw Resistance	ASTM E2485	No deleterious effects at 10 cycles when viewed under 5x magnification	60 cycles: no deleterious effect
Fungus Resistance	MIL STD 810B	No Requirement	28 days: no growth
Mildew Resistance	ASTM D3273	No growth supported during 28 day exposure period	Pass
Moisture Resistance	ASTM D2247	No deleterious effects at 14 day exposure	Pass
Salt Fog Resistance	ASTM B117	No deleterious effects at 300 hours	500 hours: no deterioration

2. SIKAWALL-6200 MAXLASTIC FINISH:

TEST	METHOD	CRITERIA	RESULTS
Elongation	ASTM D 412 (modified*)	Report Value	> 300%
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed
Accelerated Weathering	ASTM G 155 Cycle 1	No deleterious effects after 2000 hrs.	Pass
Water Vapor Transmission	ASRM E 96 B	Report Value	> 10 perms
Flexibility	ASTM D 522	Report Value	No cracking ½" mandrel
Wind Driven Rain Resistance	ASTM D 6904	Resists pressure equivalent to a 98-mph wind velocity without exhibiting water leaks or weight gain	Pass
Adhesion	ASTM D 4541	Min. 15.9 psi (110 kPa) or substrate failure	> 125 psi (862 kPa)

1.06 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 and exposure to moisture. Store at no less than 40°F/4°C (50°F/10°C SIKAWALL-4020 GRANITE & STONE finish).
- Store insulation boards flat and protected from direct sunlight and extreme heat.

1.07 PROJECT/SITE CONDITIONS

- Do not apply Sika material in ambient temperatures below 40°F/4°C (50°F/10°C for SIKAWALL-4020 GRANITE & 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 SIKAWALL-4020 GRANITE & STONE Finish) prevail. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
- Do not apply materials to frozen surfaces.
- Maintain ambient temperature at or above 40°F/4°C (50°F/10°C for SIKAWALL-4020 GRANITE & STONE Finish) during and at least 24 hours after material installation and until dry.
- 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.

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1.08 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Sika Fastwall 100 Stucco wall 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.

1.09 WARRANTY

- A. Provide Sika standard warranty for Sika Fastwall 100 Stucco wall system installations under provisions of Section [01 70 00].
- B. Comply with Sika Facades' notification procedures to assure qualification for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Sika Fastwall 100 Stucco system components 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. **Water-Resistive Barrier:** (Required, unless applied direct to unit masonry/concrete substrate)

NOTE TO SPECIFIER: A water resistive barrier must be installed over sheathed substrates and wrapped into rough openings per applicable building code prior to installation of the Sika Fastwall 100 Stucco System. Ensure specification of the appropriate number of layers of water resistive barrier according to specific substrate type and specific code requirements.

- B. SIKAWALL-9460 DRAINAGE MAT DF: A three-dimensional drainage core bonded to a breathable fabric. The mat consists of fused, entangled filaments designed to provide an unobstructed drainage path
- C. SIKAWALL-73 ADACRYL ADMIX & BONDER: An acrylic-based, non-reemulsifiable bonding agent for application of the Sika Fastwall 100 Stucco Wall System direct to unit masonry/concrete substrate surfaces.
- D. **Lath/Plaster Base: (Required, Select One)**
 - 1. SIKAWALL-9000 PERMALATH 1000: An open weave, three-dimensional self-furring, nominal 1/4" thick glass fiber reinforcing lath for use with a minimum stucco thickness of 1/2" (12.7mm). Complies with ASTM C1764, C1787 and C1788.
 - 2. Woven or Welded Wire Lath: A minimum No. 20 gauge, 1" (25.4 mm) galvanized woven wire fabric. Other laths shall comply with ASTM C933 (welded) and ASTM C1032 (woven). The lath is self-furred or furred when applied over all substrates.
 - 3. Expanded Metal Lath: The lath shall comply with ASTM C847. Furring and self-furring requirements shall be as set forth for wire lath. Minimum weight is 2.5 lbs./yd² (1.36 kg/m²). Refer to ASTM C 1063 for additional information.
- E. **Fastening for Lath/Plaster Base: (Required, Select One or More)**
 - 1. SIKAWALL-9000 PERMALATH 1000: ULP-302 (1 3/4") or Lath Plate (1 1/4") Mechanical Fastening Systems by Wind-Lock Corp.
 - a. Masonry: masonry type [M] fastener with ULP 302 diameter washer; or Lath Plate 25 mm (1") minimum penetration into masonry. Fastener spacing 6" o.c. vertically and 16" o.c. horizontally.
 - b. Light Gauge Steel Framing/Furring (20 Gauge): light metal type [LM] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate 16 mm (5/8") minimum penetration into framing 6" o.c. vertically and 16" o.c. horizontally
 - c. Heavy Gauge Steel Framing (18 to 12 Gauge maximum): metal type [S] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate or 32 mm (1 1/4") long x 2.5 mm (1/8") diameter VersaPin

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Gripshank® fasteners by Aerosmith Fastening Systems with Lath Plates; 16 mm (5/8") minimum penetration to framing 6" o.c. vertically and 16" o.c. horizontally.

- d. Wood framing: wood type [W] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate; 16 mm (5/8") minimum penetration into framing or minimum 16-gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing, 6" o.c. vertically and 16" o.c. horizontally.

2. **Metal Plaster Base:** Fasten per ASTM C1063

- a. Masonry: Power or powder actuated fasteners and/or concrete stub nails with minimum ¾" penetration. Fastener spacing not more than 7" o.c. vertically and 16" o.c. horizontally.
- b. Metal framing: Screws appropriate to framing gauge, not less than 3/8" penetration through framing with a minimum of 3 exposed threads. Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type.
- c. Wood framing: nails, 1" wire staples penetrating wood framing not less than ¾" or screws penetrating wood framing not less than 5/8". Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type.

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

1. SIKAWALL FASTWALL STUCCO BASE CONCENTRATE: Factory-blended stucco mixture of Portland cement, reinforcing fibers, and proprietary ingredients, with sand added in the field.
2. SIKAWALL FASTWALL STUCCO BASE SANDED: Factory-blended stucco mixture of Portland cement, reinforcing fibers, sand, and proprietary ingredients.

G. **Plaster Sand:** (Required if SIKAWALL FASTWALL STUCCO BASE CONCENTRATE is retained): Must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C897. Plaster sand must be graded within the following limits:

Retained on U.S. Standard Sieve	Percent retained by weight ± 2 percent	
	Minimum	Maximum
No. 4	-	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

H. **Water:** Clean and potable without foreign matter.

- I. SIKAWALL-520 STUCCO LEVEL COAT: Polymer modified dry- mix leveling and embedment coat for a crack suppression system.
- J. SIKAWALL POLY-BOND (adhesive/base coat for EPS trim shapes) : A dry-mix polymer adhesive and base coat containing Portland cement and requiring only water for mixing.
- K. SIKAWALL-9000 SRT MESH: a woven fiber glass mesh with high mechanical strength and dimensional stability for improved crack resistance. Must be used with SIKAWALL-520 STUCCO LEVEL COAT.
- L. SIKAWALL-9010 FLEXGUARD 4 Reinforcing Mesh (Required if EPS Trim Shapes Are Specified): A. balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with SikaWall base coats
- M. SIKAWALL-10 STUCCO PRIME: A 100% acrylic-based primer; color [] to closely match the selected SikaWall finish color.

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NOTE TO SPECIFIER: SIKAWALL-10 STUCCO PRIME is recommended for R1.5 finish texture. Although optional in other applications, Sika recommends the use of SIKAWALL-10 STUCCO PRIME prior to application of SikaWall finish over applications of Sika Fastwall 100 Stucco wall system. The application of SIKAWALL-10 STUCCO PRIME will enhance color uniformity and ease SikaWall finish application and will minimize the likelihood of read-through.

- N. SIKAWALL-15 TINTED PRIMER (Required if SIKAWALL-4020 GRANITE & STONE finish is selected): A 100% acrylic-based primer that helps alleviate shadowing. Color to closely match the selected SikaWall finish.

NOTE TO SPECIFIER – a finish is required, select acrylic or cement-based finish option below

O. Acrylic Finish:

1. SIKAWALL PERMA-FINISH STUCCO ACRYLIC: 100% acrylic polymer finishes with advanced technology to improve long-term performance and dirt pick-up resistance; air cured, compatible with base coat; finish color [] as selected; finish texture:
 - a. R1.5: 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.
 - b. F1.0: Utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. T0.5: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - d. M1.5: Provides a uniform, “pebble” appearance.
2. SIKAWALL PERMA-FLEX STUCCO ACRYLIC: 100% acrylic polymer stucco grade finishes; air cured, compatible with base coat; finish color [] as selected; finish texture:
 - a. R1.5: 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.
 - b. F1.0: Utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. T0.5: Can achieve a wide variety of free-formed, textured appearances, including smooth, stipple and skip-trowel
 - d. M1.5: Provides a uniform, “pebble” appearance.
3. SIKAWALL-6200 MAXLASTIC Finish: 100% acrylic based; textured elastomeric finish that provides excellent flexibility and breathability, air cured, compatible with base coat; finish color [] as selected; finish texture:
 - a. R1.5: 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.
 - b. F1.5: Utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. T0.5: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel.
 - d. M1.5: Provides a uniform, “pebble” appearance.
4. SIKAWALL-6100 SENERFLEX TERSUS Finish: Modified acrylic based finish with water repellent properties, compatible with base coat; finish color [] as selected; finish texture:
 - a. R1.5: 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.
 - b. F1.0: Utilizes uniformly sized aggregates for a uniform, fine texture.
 - c. T0.5: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - d. M1.5: Provides a uniform, “pebble” appearance.
5. SikaWall 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.
 - a. SIKAWALL-6260 METALLIC: Has a pearlescent appearance. It utilizes uniformly sized aggregates for a uniform fine texture.
 - b. SIKAWALL-4020 GRANITE & 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.
6. SIKAWALL-6230 CHROMA Finish: 100% acrylic polymer-based finish with integrated high performance

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[colorants for superior fade resistance, compatible with base coat; Senergy Finish color \[\] as selected; finish texture:](#)

- a. [F1.0: Utilizes uniformly sized aggregates for a uniformly fine texture.](#)
- b. [M1.5: Provides a uniform "pebble" appearance.](#)
- c. [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.](#)

P. **Cementitious Finish:**

1. [SIKAWALL SANTA BARBARA MISSION FINISH: Traditional smooth stucco finish coat or 30/30 float finish.](#)
2. [SIKAWALL EXTERIOR STUCCO COLOR COAT: blend of Portland cement, hydrated lime, aggregates and additives, available in 16/20 and 20/30 aggregates.](#)

2.03 ACCESSORIES

Trim: Casing bead, corner bead, expansion joint and weep screed accessories shall meet the requirements of ASTM C1063. Accessories shall be vinyl, meeting ASTM D1784; galvanized, meeting ASTM A525 and ASTM A526; or zinc, meeting ASTM B69. Vinyl or zinc accessories are recommended where highly humid or salt-laden service conditions exist. Refer to Sika's Lath and Plaster Trims technical bulletin for additional information. Examples of trim accessories include:

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

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify project site conditions under provisions of Section [01 89 00] [].

B. **Walls:**

1. Substrates:

- a. Acceptable substrates are PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior) , poured concrete/unit masonry, e²XP™ sheathing (ASTM C1177), GlasRoc® sheathing (ASTM C1177), Securock™ glass-mat sheathing (ASTM C1177), DensGlass and DensElement (sheathing only) exterior sheathing (ASTM C1177), Weather Defense™ Platinum sheathing (ASTM C1177), GreenGlass® sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure I or exterior plywood (Grade C/D or better), Huber Zip (sheathing only), or Exposure I OSB.
- b. Sheathings must be securely fastened per applicable building code requirements and manufacturer's recommendations.
- c. Examine surfaces to receive system and verify that substrate and adjacent materials are dry, clean, and sound. Verify substrate surface is flat, free of fins or planar irregularities greater than 1/4" in 10' (6 mm in 3 m).
- d. When applying SIKAWALL FASTWALL STUCCO BASE directly to concrete/unit masonry, verify concrete/unit masonry is free of dust, dirt, grease, oils, laitance, efflorescence, biological residue, existing paint or coatings, curing compounds, form release agents, or any other contaminants which might affect the bond. Masonry walls should be properly cured to full load bearing capacity, laid true, and with joints tooled. Properly prepared concrete will have an open texture similar to fine grit sandpaper.

2. Flashings:

- a. All flashings are by others and must be installed in accordance with specific manufacturer's requirements. Where appropriate, end-dams must be provided.
- b. Openings must be flashed prior to window/door, HVAC, etc. installation.
- c. Windows and openings shall be flashed according to design and building code requirements.

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- d. Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.
- 3. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
- 4. Kick-out flashing: Kick-out flashing must be installed where required. The kick-out flashing must be leak-proof and angled (min 100°) to allow for proper drainage and water diversion.
- C. Do not proceed until all unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage and staining during application of Sika Fastwall 100 Stucco system.
- B. Protect finished work at end of each day to prevent water penetration.

3.03 MIXING

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

- A. Mix Sika proprietary products in accordance with manufacturer's instructions, including the applicable Sika Fastwall 100 Stucco materials product data sheets.
- B. Admix – SIKAWALL-73 ADACRYL ADMIX & BONDER: Mix up to 1 gal (3.8 L) per 1 bag of SIKAWALL FASTWALL STUCCO BASE CONCENTRATE. Mix up to 1 qt (1 L) per bag of SIKAWALL FASTWALL STUCCO BASE SANDED. Add after dry components and the majority of the water has been mixed. Mix no longer than required to provide a uniform mixture. DO NOT OVER-MIX. Overmixing entrains excessive amounts of air which weaken the material. Do not re-temper mixes over 20 minutes old.

3.04 APPLICATION

General: Sika Fastwall 100 Stucco system and its related materials shall conform to the requirements of ICC-ES Evaluation Report ESR-2564 and to this specification

- A. **Trim Accessories:** Refer to project design documents for placement of trim accessories; follow ASTM C1063, other applicable standards and accessory manufacturer's instructions. Reference Sika Fastwall 100 Stucco 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.

NOTE TO SPECIFIER: Keep only the products in this section which were selected in Section 2.02. Delete those not to be utilized. Reference published product data sheets for complete instructions.

B. Water-Resistive Barrier:

- 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 Sika Fastwall 100 Stucco System. Wrap the water-resistive barrier into rough openings (doors, windows, etc.) in accordance with manufacturers' application guidelines and applicable code requirements. Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.

C. SIKAWALL-9460 DRAINAGE MAT DF:

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

- D. **Lath:** Install in accordance with all applicable code requirements, applicable standards and application procedures.

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

NOTE: Supplemental fasteners, in the framing or sheathing, can be used to secure lath prior to application of stucco base.

E. Stucco Base Coat:

1. 3/8"-1/2" thickness (9.5-12.7 mm) application.
 - a. Following surface preparation and installation of the lath and accessories apply selected SIKAWALL FASTWALL STUCCO BASE mixture to the approved substrate by hand troweling or machine spraying to a thickness of 3/8" to 1/2" (9.5-12.77 mm), completely embedding the lath.
 - b. Use rod and darby to level the applied stucco base coat without exposing the lath.
 - c. After initial set begins and surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving the surface ready to receive selected SikaWall finish.
 - d. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and windy conditions may make additional fogging necessary.
 - e. Allow SIKAWALL FASTWALL STUCCO BASE to cure a minimum of 6 days prior to application of EPS board shapes, SIKAWALL-520 STUCCO LEVEL COAT, SIKAWALL-10 STUCCO PRIME, SIKAWALL-15 TINTED PRIMER or SikaWall finish application.

F. SIKAWALL-520 STUCCO LEVEL COAT / SIKAWALL-9000 SRT MESH or FLEXGUARD 4 Reinforcing Mesh:

1. SIKAWALL-520 STUCCO LEVEL COAT shall be applied to achieve SIKAWALL-9000 SET MESH embedment with no reinforcing mesh color visible. Apply mixed base coat to entire surface of stucco base coat with a stainless-steel trowel to embed the reinforcing mesh.
2. Immediately place reinforcing mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges. Lap reinforcing mesh 2 1/2" (64 mm) minimum at edges.
3. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
4. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
5. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours) prior to primer or finish application.

G. Decorative Shapes:

1. Apply mixed SIKAWALL POLY-BOND adhesive to entire surface of insulation board using a stainless-steel trowel with 1/2"x 1/2" (13mm x 13mm) notches spaced 1/2" (13mm) apart or 3/8"x 3/8" (10mm x 10mm) notches spaced 3/8" (10 mm) apart.
2. Immediately set shape into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not allow base coat to dry prior to installing.
3. Abut all joints tightly and ensure overall flush level surface.

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4. Check adhesion periodically by removing a shape prior to set. Properly installed shapes will be difficult to remove, and SIKAWALL POLY-BOND adhesive will be adhered to both the SIKAWALL FASTWALL STUCCO BASE and the shape.
5. Fill 1/16" (1.6mm) and larger gaps between shapes with slivers of insulation board.
6. Allow application of shapes to dry (normally 8 to 10 hours) prior to application of SIKAWALL POLY-BOND base coat and SIKAWALL-9010 FLEXGUARD 4 reinforcing mesh.
7. Rasp flush any irregularities of the shapes greater than 1/16" (1.6 mm).
8. Apply SIKAWALL POLY-BOND base coat to entire surface of insulation board with a stainless-steel trowel to embed the reinforcing mesh. Immediately place SIKAWALL-9010 FLEXGUARD 4 reinforcing mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges.
9. Lap reinforcing mesh 2 1/2" (64 mm) minimum at edges and 3" (75 mm) minimum onto stucco base surface.
10. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
11. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours) prior to primer or finish application.

H. SIKAWALL-10 STUCCO PRIME / SIKAWALL-15 TINTED PRIMER:

1. Apply primer to cured stucco or base coat with a sprayer, 3/8" (10 mm) nap roller, or good quality latex paint brush at a rate of approximately 150-250 sq. ft. per gallon (3.6-6.1 m² per liter). Primer must be dry to the touch before proceeding to the SikaWall finish application.

I. SikaWall Acrylic Finish Coat: SIKAWALL PERMA-FINISH STUCCO ACRYLIC, SIKAWALL PERMA-FLEX STUCCO ACRYLIC, SIKAWALL-6200 MAXLASTIC, SIKAWALL-6100 SENERFLEX TERSUS, SIKAWALL-6260 METALLIC and SIKAWALL-6230 CHROMA.

1. Apply finish directly to the stucco base coat or primed stucco base coat with a clean, stainless steel trowel.
2. 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.
3. 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.

J. SIKAWALL-4020 GRANITE & STONE Finish:

1. Apply SIKAWALL-15 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.
2. 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.
3. 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.
4. 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).

K. SikaWall Cementitious Finish

1. SIKAWALL SANTA BARBARA MISSION FINISH:

- a. Color coat shall be approximately 1/8" thick.
- b. Hand application over a Portland cement plaster brown coat: Prior to application of SBMF stucco finish, the Portland cement base coat shall be dampened with clean water to control and equalize suction. Allow surface moisture to dissipate prior to the application of the Stucco Finish.
- c. Trowel or float apply an even coat completely covering the base coat and allow it to set although prior to drying out, trowel apply a second tight coat of the same material over the first to the desired finish level.

Traditional Smooth Santa Barbara Mission Finish: Allow the application to set although prior to drying out, trowel the surface to the desired or approved finish level using as little water as possible.

30/30 Float Finish: Before the second coat has set, use a float to bring the aggregate to the surface to achieve the desired sand finish.

- d. During periods of hot or dry weather condition, a light spray (mist) of clean water is recommended over the stucco finish. SIKAWALL LAHABRA SANTA BARBARA MISSION FINISH will normally dry and set the

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- same day. Allow 28 days for curing.
- d. Color and performance may be affected by the addition of field additives. Field additives are not to be used except at the direction of the Sika Facades Technical Support.
 - e. Variations in color due to weather, job conditions, and method of application should be expected.
2. SIKAWALL EXTERIOR STUCCO COLOR COAT:
- a. Color coat shall be approximately 1/8" thick.
 - b. Hand application over a Portland cement plaster brown coat: Prior to application of exterior stucco finish, the Portland cement base coat shall be dampened with clean water to control and equalize suction. Allow surface moisture to dissipate prior to the application of the Stucco Finish.
 - c. Standard (16/20) Sand Float finish: Trowel apply an even coat completely covering the stucco base coat and sponge float the surface with circular motions to the desired or approved finish level, using as little water as possible
 - d. Standard (16/20) Skip Trowel textured finish: Trowel or float apply an even coat completely covering the stucco base coat and sponge float the surface with circular motions to a uniform float finish level. Allow the first application-background to set, although prior to drying out. Apply a small amount of the same material over the floated background using the skip trowel method to the desired finish level then lightly trowel over the entire area, "knocking it down" or lightly flattening it out, using random strokes of the trowel.
 - e. Fine Float (20/30) sand Float finish: Trowel apply an even coat completely covering the stucco base coat and allow it to set, although prior to drying out. Trowel apply a second tight coat of the same material over the first and sponge float the surface with circular motions to the desired or approved finish level, using as little water as possible.

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. 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.
- C. Protect installed construction under provisions of Section [01 76 00] [].

END OF SECTION

Sika Fastwall 100 Stucco System

WARRANTY

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

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/>.

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