SUREWALL® Surewall Drainage EIFS - Vertical Ribbon Specification

CSI SECTION 07 24 00

CSI SECTION 07 24 00 - Exterior Insulation & Finish System (EIFS) - Class PB
07 24 19 - Water-Drainage Exterior Insulation and Finish System

SYSTEM OVERVIEW

The Surewall Drainage EIFS - Vertical Ribbon System is a Class PB EIF System distinguished by installation with drainage. Drainage is accomplished by means of channels formed by vertical ribbons of adhesive applied to the back of the insulation board. The adhered insulation board is applied to Surewall Roll-On Weather Barrier water-resistive barrier coating.

Surewall Drainage EIFS - Vertical Ribbon System is qualified for use in combustible and noncombustible construction, residential and non-residential construction.

Sheathing is limited to glass mat-faced gypsum sheathing, cement board, and CDX plywood. Plywood requires 2 coats of Roll-On Weather Barrier.

- The system is not qualified for application to OSB (oriented strand board) sheathing. Refer to Surewall Drainage EIFS StuccoWrap® or Grade D building paper for OSB sheathing.
- Some jurisdictions may require special inspections of the Roll-On Weather Barrier application..
- The system does not contribute structural strength to the wall. It depends on the substrate wall for support and attachment.
- Substrate construction must resist all design loads. Sheathing attachment to framing must resist design negative windloads because it transfers those loads to the framing. Appropriate safety factors must be applied.
- All penetrations and non-draining terminations of the system must be made weather-tight, typically by sealants and/or flashings.

PART 1 - GENERAL

1.01 SUMMARY

A. Section Description: Section includes exterior insulation and finish system (EIFS - Class PB).
B. Products Installed But Not Supplied Under This Section:
   1. EIFS Joint Sealant: Refer to Division 7 Joint Treatment (Sealants) Section. Installation of EIFS Joint Sealant shall be by EIFS applicator or a separate installer under direct supervision and control of EIFS applicator. EIFS Joint Sealant installer shall be experienced and competent in the installation of elastomeric construction sealants.
C. Related Sections:
   1. Division 03 - Concrete Section.
   2. Division 04 - Unit Masonry Section.
   3. Division 05 - Light Gauge Cold-Formed Steel Framing Section.
   4. Division 06 - Carpentry Section for Sheathing.
   5. Division 07 - Flashing Section.
   6. Division 07 - Joint Sealant Section.
   7. Division 09 - Portland Cement Plaster.
   8. Division 09 - Specialty Coatings.

1.02 DEFINITIONS

A. Definitions:
   1. Backwrapping: Continuation of base coat and fiberglass reinforcing fabric around the edge of insulation board and onto the substrate in back of the insulation.
   2. Edgewrapping: Continuation of base coated fiberglass reinforcing fabric around the edge of the insulation board and onto the rough opening wall framing or masonry.
   3. Expansion Joint: Sealant, back-up material and primer manufactured by others, forming a moveable juncture between adjacent materials.

1.03 SYSTEM DESCRIPTION

A. Description of Surewall Drainage EIFS - Vertical Ribbon System:
   1. Surewall Drainage EIFS - Vertical Ribbon System: An Exterior Insulation and Finish System (EIFS) consisting of Expanded Polystyrene Insulation (EPS) Board, Cementitious Adhesive, Cementitious or Non-cementitious Base Coat with embedded Reinforcing Fabric Mesh, Primer (Optional), and Finish Coat. This system is installed over a roll on weather barrier consisting of Surewall Roll-On Weather Barrier and Surewall Flashing Membrane applied over Glass Mat Faced Gypsum Sheathing or cement board.

B. Surewall EIF System Functional Criteria:
   1. General:
      a. Insulation Board: At system termination, completely encapsulate insulation board edges by mesh reinforced base coat, substrate or Surewall track. The use of and maximum thickness of insulation board shall be in accordance with applicable building codes and Surewall requirements.
      b. Flashing: Flashing shall be continuous and watertight. Primary flashing shall be designed and installed to prevent water infiltration behind the EIFS. Refer to Division 7 Flashing Section for specified flashing materials.
      c. Design negative windload shall not exceed 50 psf. (2394 Pa) Contact ParexLahabra Technical Department for higher design negative windload.
      d. Inclined surfaces shall follow guidelines listed below:
         1) Minimum slope: 6 in. (152 mm) of vertical rise in 12 in. (305 mm) of horizontal run.
         2) For sloped surfaces, run of slope shall be a maximum of 12 in. (305 mm).
         3) Usage not meeting above criteria shall be approved in writing by ParexLahabra prior to installation.
      e. The building interior shall be separated from the insulation board by 1/2 in. (12.7 mm) of gypsum board or equivalent 15 minute thermal barrier.
   2. Substrate Systems:
      a. Shall be engineered to withstand applicable design loads including required safety factor.
      b. Maximum deflection under positive or negative design loads of substrate system shall not exceed 1/240 of span except as otherwise approved in writing by ParexLahabra prior to installation.
      c. Substrate Dimensional Tolerances: Flat within 1/4 in. (6.4 mm) within any 4 ft. (1219 mm) radius.
      d. Surface irregularities: Sheathing not over 1/8 in. (3 mm); masonry not over 3/16 in. (4.8 mm).

EDITOR NOTE: COORDINATE BELOW IMPACT RESISTANCE CLASSIFICATION REQUIREMENTS RECOMMENDED BY EIMA INDUSTRY MEMBERS ASSOCIATION TEST METHOD AND STANDARD 101.86 - "STANDARD TEST METHOD FOR RESISTANCE OF EXTERIOR INSULATION FINISH SYSTEMS TO THE EFFECTS OF RAPID DEFORMATION (IMPACT)."

   3. Impact Resistance Classification: Surewall Drainage EIFS - Vertical Ribbon System shall be classified in accordance with EIMA for EIFS classification and impact ranges as follows:
      a. Standard Impact Resistance, 25-49 inch-lbs Impact Range.
   4. Expansion Joints: Continuous expansion joints shall be installed at the following locations in accordance with manufacturer's recommendations.
      a. At building expansion joints.
      b. At substrate expansion joints.
      c. At floor lines in wood frame construction.
      d. Where Surewall EIF System panels abut one another.
      e. Where Surewall EIF System abuts other materials.
      f. Where significant structural movement occurs, such as at:
         1) Changes in roofline.
         2) Changes in building shape and/or structural system.
      g. Where substrate changes. (For exceptions to joints at substrate changes, contact the ParexLahabra Technical Department)

EDITOR NOTE: INDICATE JOINT WIDTH ON DRAWINGS FOR MOVEMENT AND EXPANSION AND CONTRACTION CONDITIONS. CONSULT WITH SEALANT MANUFACTURER FOR JOINT DESIGN RECOMMENDATIONS AND WITH EIFS MANUFACTURER FOR COORDINATION OF EIFS MATERIALS.

      h. Substrate movement and expansion and contraction of Surewall Drainage EIFS - Vertical Ribbon System and adjacent materials shall be taken into account in design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficients of expansion of materials, joint width to depth ratios, and other material factors. Minimum width of expansion joints shall be as follows:
         1) 1/2 in. where EIFS abuts other materials.
         2) 3/4 in. when EIFS abuts the EIFS.
         3) Larger width where indicated on drawings.
   5. Manufacturer's Details:
      a. Surewall Drainage EIFS - Vertical Ribbon System latest published information shall be followed for standard detail treatments.
      b. Non-standard detail treatments shall be as recommended by ParexLahabra, approved by Architect and be part of the Contract Documents.
   6. Building Code Conformance: Surewall Drainage EIFS - Vertical Ribbon System shall be acceptable for use on this project under building code having jurisdiction.

Surewall Drainage EIFS - Vertical Ribbon Specification

1.04 SUBMITTALS

A. General: Submit Samples, Reports, Certificates and Manufacturer's Warranty in accordance with Division 1 General Requirements Submittal Section.

1.05 QUALITY ASSURANCE

A. Qualifications:
   1. EIFS Manufacturer: Shall have marketed Exterior Insulation and Finish Systems in United States for at least ten years; Shall have completed projects of same building size and type as this project.
   2. EIFS Applicator: Shall have attended a Surewall Educational Seminar for installation of system; Shall possess a current certificate of education; Shall be experienced and competent in installation of plaster-like materials.

B. Regulatory Requirements:
   1. Insulation Board: Shall be produced and labeled under a third party quality program as required by applicable building code.

1.06 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver EIFS and secondary water-resistive barrier materials supplied by Surewall to site location in original unopened containers with labels intact. Upon arrival, materials shall be inspected for damage, and manufacturer notified of any discrepancies. Unsatisfactory materials shall not be used.

B. Storage: Store materials supplied by Surewall in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40º F (4º C) and below 110º F (43º C) in accordance with manufacturer's instructions. Store insulation board flat.

1.07 PROJECT / SITE CONDITIONS

A. General: Provide access to electric power and clean potable water at area where Surewall Drainage EIFS - Vertical Ribbon System materials are installed.

B. Environmental Conditions: Comply with manufacturer's recommendations of environmental conditions affecting product performance:
   1. Ambient air temperature: Minimum 40º F (4º C) and rising, and remaining so for 24 hours thereafter.
   2. Do not apply Surewall Drainage EIFS - Vertical Ribbon System or secondary water-resistive barrier materials to substrates whose tempeature is below 40º F (4º C).
   3. Do not apply Surewall Drainage EIFS - Vertical Ribbon System or secondary water-resistive barrier during inclement weather unless appropriate protection is employed.
   4. Protect Surewall Drainage EIFS - Vertical Ribbon System or secondary weather water-resistive materials from weather and other damage.

1.08 WARRANTY

A. Warranty: Upon request, at completion of installation, provide Surewall Drainage EIFS - Vertical Ribbon System Limited Warranty.

1.09 MAINTENANCE

A. Maintenance Instructions: At completion of EIFS installation, provide manufacturer's maintenance instructions for EIFS installed.
   1. Refer to Division 1 General Requirements for requirements for submitting maintenance documentation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturer: ParexLahabra, Inc. 4125 E. La Palma Ave. Suite 250, Anaheim, CA 92807
   1. System: Surewall Drainage EIFS - Vertical Ribbon System
      a. Secondary Water-Resistive Barrier:
         1) Surewall Roll-On Weather Barrier
         2) Surewall Sheathing Tape
         3) Surewall DrainEdge™
         4) Surewall Flashing Membrane
      b. Adhesive: Surewall Flex and Prime-A-Flex Base Coat & Adhesive
      c. Insulation Board: In compliance with manufacturer's requirements for Standard System EIFS.
      d. Base Coat: Surewall Flex and Prime-A-Flex Base Coat & Adhesive

EDITOR NOTE: COORDINATE BELOW WITH PROJECT REQUIREMENTS.

      e. Mesh Reinforcement: Locations to achieve impact strength shall be as follows:
         1) Locations (Not Otherwise Noted): EIMA Impact Classification: Standard.

EDITOR NOTE: RETAIN BELOW AND SPECIFY LOCATIONS TO RECEIVE EIFS WITH HIGHER THAN STANDARD IMPACT RESISTANCE CLASSIFICATION.

         2) Locations: _____; EIMA Impact Classification: _____

EDITOR NOTE: CONSULT WITH SUREWALL AND COORDINATE BELOW TRACKS AND BACKWRAPPING WITH REQUIREMENTS FOR PROJECT CONDITION.

      f. Track: Surewall Track, as required for EIFS.

2. Surewall System Finish:

EDITOR NOTE: SPECIFY BELOW TYPES FROM MANUFACTURER'S TEXTURE FINISHES AND COLORS. REFER TO SUREWALL PRODUCT BINDER FOR FINISH TYPE, TEXTURE AND COLOR SELECTION.

a. Type:_____
b. Texture:_____
c. Color:_____

3. Product Performance Requirements: Refer to Product Performance Sheet as attached herein.

B. Materials
1. Secondary Water-Resistive Barrier:
   a. Surewall Roll-On Weather Barrier: Vapor permeable liquid membrane for glass mat-faced gypsum, cement fiber sheathing, CDX plywood (2 coats) to provide secondary water-resistive barrier.
   b. Surewall Flex and Prime-A-Flex Base Coat & Adhesive: For concrete and masonry when drainage is required over these substrates, and for exterior grade gypsum sheathing prior to applying the Roll-On Weather Barrier.
   c. Surewall Sheathing Tape: Non-woven synthetic fiber tape to reinforce Roll-On Weather Barrier at sheathing board joints.
   d. Surewall DrainEdge™: Pre-punched strip of non-woven fabric to allow for drainage at the head of system penetrations.
   e. Surewall Flashing Membrane: Self-sealing, non-woven mat backed, rubberized asphalt membrane, 30 mils (0.76 mm) thick.
2. EIFS Insulation Board: Expanded Polystyrene (EPS) Insulation Board:
   a. Produced by and labeled under a third party quality program as required by applicable building code; and produced by a manufacturer approved by ParexLahabra.
   b. Shall conform to ASTM C-578, Type I and the ParexLahabra specification for Molded Expanded Polystyrene Insulation board.
   c. Maximum size shall be 2' x 4'.
   d. Thickness: 3/4", minimum.
3. Adhesive:
   a. Surewall Prime-A-Flex Base Coat & Adhesive: 100% acrylic polymer based, requiring the addition of portland cement; used as an adhesive to laminate EPS Insulation Board to the Roll-On Weather Barrier.
   b. Surewall Flex Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients; used as an adhesive to laminate EPS Insulation Board to the Roll-On Weather Barrier.

EDITOR NOTE: RETAIN BELOW STANDARD MESH FOR SUREWALL DRAINAGE EIFS - VERTICAL RIBBON SYSTEM FOR STANDARD IMPACT RESISTANCE CLASSIFICATION.

4. Surewall Reinforcing Mesh:
   a. Standard Mesh: Weight 4.5 oz. per sq. yd. (153 g/m^2); coated for protection against alkali. Standard reinforcement of Surewall EIFS, or for use with Medium Impact Mesh, or High Impact Mesh.
   b. Detail Mesh: Reinforcing mesh used for backwrapping and details, and to embed in the Surewall Flex and Prime-A-Flex Base Coat & Adhesive at the joints in Exterior grade gypsum sheathing.

EDITOR NOTE: RETAIN BELOW MESH REQUIREMENTS AFTER DETERMINATION OF IMPACT RESISTANCE CLASSIFICATION.

   c. Medium Impact Mesh: Weight 15 oz. per sq. yd. (509 g/ m^2). Reinforcing mesh used with Surewall Drainage EIFS - Vertical Ribbon System; to achieve EIMA high impact strength.
   d. High Impact Mesh: Weight 20 oz. per sq. yd. (678 g/ m^2) Reinforcing mesh used with Surewall Drainage EIFS - Vertical Ribbon System; to achieve ultra-high impact strength.
5. Surewall Base Coat:
   a. Surewall Prime-A-Flex Base Coat & Adhesive: 100% acrylic polymer base, requiring the addition of portland cement.
   b. Surewall Flex Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients.
6. Surewall Primers:
   a. Pre-Coat Acrylic Primer: 100% acrylic based coating to prepare surfaces for Surewall finishes.
7. Surewall Finish Coat: Factory blended, 100% acrylic polymer based finish, integrally colored. Finish type, texture and color as selected by Architect.
8. Surewall Track: PVC plastic accessory, used for termination of Surewall Drainage EIFS - Vertical Ribbon System in lieu of backwrapping; provides straight termination and joint lines; facilitate sealant maintenance; Track: vent holes for drainage and perforated front flange to key base coat. Required at System base for drainage.
9. Water: Clean, potable water.
10. Portland Cement: ASTM C 150, Type I.

2.02 RELATED MATERIALS

A. Sheathing:
   1. Glass mat faced gypsum sheathing conforming to ASTM C1177.
   2. Cement Fiber Sheathing conforming to ASTM C 1186.
   3. Exterior grade gypsum sheathing conforming to ASTM C 79.
   4. CDX plywood, PS 1, Exposure 1, minimum 7/16 in. thick, C veneer facing out, panels gapped 1/8 in. at all edges.

B. Flashing: Refer to Division 7 Flashing Section for flashing materials.

C. Sealant System:
   1. Sealant for expansion joints between panelized Surewall Drainage EIFS - Vertical Ribbon System sections shall be ultra-low modulus designed for minimum 100% elongation and minimum 50% compression and as selected by Architect.
   2. Sealant for perimeter seals around window and door frames and other wall penetrations shall be low modulus, designed for minimum 50% elongation and minimum 25% compression, and as selected by Architect.
   3. Sealants shall conform to ASTM C 920, Grade NS.
   4. Expansion joints between sections of Surewall EIF System shall have a minimum width of 3/4 in.
   5. Perimeter seal joints shall be a minimum width of 1/2 in.
   6. Sealant backer rod shall be closed-cell polyethylene foam.
   7. Apply sealant to tracks or base coat of Surewall Drainage EIFS - Vertical Ribbon System.
   8. Refer to Surewall current bulletin for listing of sealants that have been tested and have been found to be compatible with Surewall EIF Systems.
   9. Color shall be as selected by Architect.
   10. Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

EDITOR NOTE: PART 3 EXECUTION BELOW INVOLVES ONSITE WORK AND SHOULD INCLUDE PROVISIONS FOR INCORPORATING MATERIALS AND PRODUCTS INTO PROJECT. TYPICALLY, "CONDITIONS OF THE CONTRACT" ESTABLISH RESPONSIBILITY FOR "MEANS, METHODS, TECHNIQUES, AND SAFETY" REQUIREMENTS OF CONSTRUCTION WITH CONTRACTOR. SPECIFICATIONS SHOULD AVOID CONFLICTS WITH THIS CONTRACTUAL PRINCIPLE.

PART 3 - EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's instructions for installation of exterior insulation & finish system.

REMINDER: SUREWALL DRAINAGE EIFS - VERTICAL RIBBON SYSTEM IS A WATER MANAGED TYPE OF SYSTEM. SYSTEM PERFORMANCE IS DEPENDENT UPON, AMONG OTHER FACTORS, PROPER FLASHING AND JOINT SEALING, AND ATTENTION TO PROPER FLASHING AND JOINT SEALANT DETAILS INDICATED ON DRAWINGS.

3.02 EXAMINATION

A. Examination of Substrate:
   1. Prior to installation of Surewall Drainage EIFS - Vertical Ribbon System, examine substrate as follows:
      a. Substrate shall be of a type approved by ParexLahabra.
      b. Substrate shall be examined for soundness, such as tightness of connections, crumbling or looseness of surface, voids and projections, spacing of panels, and other conditions.
      c. Substrate shall be examined for dimensional tolerances per this specification.
      d. Substrate surface shall be free of foreign materials such as oil, dust, dirt, form release agents, paint, wax, water, frost, and other harmful materials.
   2. Advise Contractor of discrepancies preventing installation of a manufacturer's warranty EIFS. Do not proceed with EIFS work until unsatisfactory conditions are corrected.
   3. Correction of unsatisfactory conditions of substrates installed by other trades shall be responsibility of Contractor.

3.03 PROTECTION AND COORDINATION

A. Protection: Protect surrounding material surfaces and areas during installation of Surewall Drainage EIFS - Vertical Ribbon System. Protect Surewall Drainage EIFS - Vertical Ribbon System from weather and other damage immediately after installation and until installation of sealants and flashings.

B. Coordination:
   1. Coordinate installation of Surewall Drainage EIFS - Vertical Ribbon System with other construction trades.
   2. Ensure a continuous EIFS operation, free of cold joints, scaffolding lines, texture variations, and other noncomplying installation procedures.
   3. Promptly flash and/or seal system terminations to prevent water infiltration. Use temporary cover when permanent flashing or sealant installation is delayed.
   4. Immediately cover tops of walls to prevent water infiltration.
   5. Upon full cure of Surewall Drainage EIFS - Vertical Ribbon System, promptly install sealant to surfaces to be sealed.

3.04 INSTALLATION

A. General: Installation shall conform to this specification and Surewall EIFS written instructions and drawing details.
   1. Install tracks, back-wrap mesh, or edge-wrap mesh at system terminations. Treat all glass mat faced gypsum sheathing, cement board sheathing and plywood joints with Surewall Roll-On Weather Barrier and embed Surewall Sheathing Tape. Treat all exterior grade gypsum sheathing joints with either Flex or Prime-A-Flex Base Coat & Adhesive and Surewall Sheathing Tape prior to coating entire surface with either Flex or Prime-A-Flex Base Coat & Adhesive.
   2. Apply Surewall Roll-On Weather Barrier, to the surface of the appropriate substrate (2 coats on plywood) and flash all rough openings with Flashing Membrane. Do not apply Surewall Roll-On Weather Barrier to concrete or masonry, but use skim coat of either Flex or Pime-A-Flex Base Coat & Adhesive as the water-resistive barrier.
   3. Treat the heads of all window, door and similar openings with DrainEdge™ and back-wrap mesh to allow for drainage at these locations.
   4. Apply Surewall adhesive to backs of insulation boards with a Surewall drainage notched trowel, with ribbons of adhesive oriented in a vertical direction (parallel to the 2 ft. dimension of the EPS board). Apply a 1in. wide horizontal ribbon of adhesive on the back at the lower edge of insulation boards installed over DrainEdge™.
   5. Install insulation board without gaps in a running bond pattern and interlocked at corners.
   6. Rasp irregularities off insulation board.
   7. Apply base coat and fully embed mesh in base coat; include diagonal mesh patches at corners of openings and reinforcing mesh patches at joints of track sections. Apply multiple layers of base coat and mesh where required for specified impact resistance classification.
   8. Apply primer to base coat after drying. Primer may be omitted if it is not required by the manufacturer's product data sheets for the specified finish coat.
   9. Finish Coat: Apply finish coat to match specified finish type, texture, and color.

3.05 CLEAN UP

A. General: Remove excess and waste EIFS materials from job site.
   1. Clean EIFS surfaces and work area of foreign materials resulting from EIFS operations.

END OF SECTION

Surewall Drainage EIFS - Vertical Ribbon Specification

PRODUCT PERFORMANCE SHEET SUREWALL DRAINAGE EIFS - VERTICAL RIBBON SYSTEM
FIRE PERFORMANCE

TEST	METHOD	DRAINAGE EIFS - VERTICAL RIBBON SYSTEM
Full-Scale Multi-Story Fire Evaluation	U.B.C. 26	Pass
Surface Burning Characteristics of Coatings	ASTM E 84	Flame Spread: 0 to 15 Smoke Developed: 0 to 15
Fire Resistance	ASTM E 119 1, 2, & 3 hour assembly	Type PB System: Standard fire-resistive assembly rating maintained.
Radiant Heat Exposure	NFPA 268	Pass: 1" to 4" EPS

STRENGTH

TEST	METHOD	DRAINAGE EIFS - VERTICAL RIBBON SYSTEM
Transverse Wind Load Resistance	ASTM E 330	Negative Wind Load: 150 psf No failure of system. Failure in gypsum sheathing substrate.
Gardner Impact Test	ASTM D 2794	25 to 200 in. lb. (depends on mesh weight)
Tensile Bond Strength	ASTM C 297	26 psi (179 kPa) to insulation board
Creep Resistance of Adhesive	ASTM D 2294	28 days 208 psf shear stress; no creep
Flexural Strength	ASTM C 203	60.6 psi (418 kPa)

ENVIRONMENTAL DURABILITY

TEST	METHOD	DRAINAGE EIFS - VERTICAL RIBBON SYSTEM
Accelerated Weathering	ASTM G23 ASTM G53	2000 hours; no deleterious effect 2000 hours; no deleterious effect
Wind-Driven Rain	F.S. TT-C-555B	24 hours; no penetration of water
Water Penetration EIMA 101.02	ASTM E 331	Pass
Freeze-Thaw Resistance EIMA 101.01	ASTM C67 UBC Acceptance Criterion	60 cycles: no deterioration 10 cycles: pass
Salt Fog Resistance	ASTM B 117	500 hours; no deterioration
Moisture Resistance	ASTM D 2247	14 days: no deleterious effect
Abrasion Resistance	ASTM D 968	500 liters: no deleterious effect
Fungus Resistance	MIL STD 810B	28 days: no growth
Mildew Resistance	ASTM D 3273	35 days: no growth

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