



Teifs Airtight Wall System Specification

CSI SECTION 07 24 00

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

SYSTEM OVERVIEW

The TeifsAirtight System is a Class PB EIF System distinguished by application over a water resistive barrier coating.

TeifsAirtight System is qualified for use on:

- *noncombustible construction*
- *combustible non-residential construction*
- *fire resistance rated walls*
- *This system is not qualified for use on wood-frame residential construction, including multi-unit. (Refer to TeifsPermadyr).*
- *The system is qualified for application to certain types of OSB (oriented strand board) sheathing only in areas shown in the Parex Acceptable Substrates and Areas of Use Technical Bulletin. For installation on OSB in other regions refer to TeifsPermadyr.*
- *Some jurisdictions may require special inspections.*
- *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 terminations of the system must be made weather-tight, typically by sealants and/or flashings.*

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Installation of TeifsAirtight System EIFS

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 04 20 00 - Unit Masonry
- C. Section 06 16 00 - Sheathing
- D. Section 07 62 00 - Sheet Metal Flashing and Trim
- E. Section 07 90 00 - Joint Protection
- F. Section 08 50 00 - Windows
- G. Section 09 21 16 - Gypsum Board Assemblies

1.3 REFERENCES

- A. ASTM B117 - Test Method for Salt Spray (Fog) Testing
- B. ASTM C1135 - Test Method for Determining Tensile Adhesion Properties of Structural Sealants
- C. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
- D. ASTM D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- E. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- F. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
- G. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials
- H. ASTM E119-00, Standard Test Method for Fire Tests of Building Construction and Materials
- I. ASTM E330 - Test Method for Structural Performance by Uniform Static Air Pressure Difference
- J. ASTM E331 - Test Method for Water Penetration by Uniform Static Air Pressure Difference
- K. ASTM E695 - Method for Measuring Relative Resistance to Impact Loading
- L. ASTM E2134 - Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)
- M. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies
- N. ASTM E2430 - Standard Specification For Expanded Polystyrene ("EPS") Thermal Insulation Boards For Use In Exterior Insulation and Finish Systems ("EIFS")
- O. ASTM E2485 - Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings
- P. ASTM E2486 - Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
- Q. ASTM G153 - Accelerated Weathering for Exposure of Nonmetallic Materials.
- R. NFPA 259-98, Test Method for Potential Heat of Building Materials.
- S. NFPA 268-96, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
- T. NFPA 285-98, Standard Method of Test for the Evaluation of Flammability characteristics of Exterior Nonload-bearing Wall Assemblies Containing Combustible Components Using the Intermediate-scale, Multistory Test Apparatus.

1.4 SYSTEM DESCRIPTION

- A. Description of TeifsAirtight System:
 - 1. An Exterior Insulation and Finish System (EIFS) consisting of Parex USA Weatherseal, Adhesive, Expanded Polystyrene Insulation (EPS) Board, Base Coat with embedded Reinforcing Fabric Mesh, Primer (Optional), and Finish Coat. This system is installed over glass mat gypsum sheathing, cement board sheathing, CDX plywood, Exposure 1, OSB, concrete or CMU. For OSB restrictions see the *Parex Acceptable Substrates and Areas of Use Technical Bulletin*.
- B. TeifsAirtight Functional Criteria:
 - 1. General:
 - a. Insulation Board: At system termination, completely encapsulate insulation board edges by mesh reinforced base coat, substrate or drainage track (limited to terminations at foundation). The use of and maximum thickness of insulation board shall be in accordance with applicable building codes and Parex USA requirements.
 - b. Flashing: Flashing shall be continuous and watertight. Flashing shall be designed and installed to prevent water infiltration behind the EIFS. Refer to Division 07 Flashing Section for specified flashing materials.

- c. The configuration of the water resistive barrier, drainage plane and flashing and Teifs materials, must allow for the egress of incidental moisture.
 - d. Design negative windload shall not exceed 50 psf. (2394 Pa). Contact Parex USA for higher design negative windload.
 - e. Inclined surfaces shall follow the 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 by Parex USA prior to installation.
 - f. 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. Performance Requirements
 - a. System to meet the performance and testing requirements of the International Code Council Acceptance Criteria AC 219
 - b. Shall meet the testing requirements of the Teifs Product Performance Sheet.
 3. Substrate Systems:
 - a. Shall be engineered to withstand applicable design loads including required safety factor.
 - b. Maximum deflection of substrate system under positive or negative design loads shall not exceed L/240 of span except as otherwise approved in writing by Parex USA prior to installation.
 - c. Substrate dimensional tolerance: Flat within 1/4 in (6.4 mm) in any 4 ft (122 cm) 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 ACCORDING TO ASTM E2486 - STANDARD TEST METHOD FOR IMPACT RESISTANCE OF CLASS PB AND PI EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

4. Impact Resistance Classification: TeifsAirtight System shall be classified in accordance with ASTM E2486 classification and impact ranges as follows.
 - a. Standard Impact Resistance, 25-49 in-lbs (2.8 – 5.6 J) Impact Range
 - b. Medium Impact Resistance, 50-89 in-lbs (5.7–10.1 J) Impact Range
 - c. High Impact Resistance, 90-150 in-lbs (10.2–17.0 J) Impact Range
 - d. Ultra High Impact Resistance, >150 in-lbs (> 17.0 J) Impact Range
5. 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 EIFS panels abut one another.
 - e. Where EIFS abuts other materials.
 - f. Where significant structural movement occurs, such as at
 - (1) Changes in roof line.
 - (2) Changes in building shape and/or structural system.
 - g. Where substrate changes. (For exceptions to joints at substrate changes, contact the Parex USA 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 EIFS 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 (12.7 mm) where EIFS abuts other materials.
 - (2) 3/4 in (19 mm) when EIFS abuts the EIFS.
 - (3) Larger width where indicated on drawings.
- 6. Manufacturer's Detail:
 - a. Teifs latest published information shall be followed for standard detail treatments.
 - b. Non-standard detail treatments shall be as recommended by Parex USA, approved by Project Designer and be part of the Contract Documents.
- 7. Building Code Conformance: TeifsAirtight shall be acceptable for use on this project under building code having jurisdiction.

1.5 SUBMITTALS

- A. General: Submit Samples, Evaluation Reports and Certificates in accordance with Division 1 General Requirements Submittal Section.
- B. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture used on project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available, at job site, approved samples.
- C. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Shall have marketed Exterior Insulation and Finish Systems in United States for at least ten years.
 - a. At least 1,000 projects shall have been completed utilizing this Exterior Insulation and Finish System.
 - b. Shall have completed projects of same building size and type as this project.
 - 2. Applicator:
 - a. Shall have attended a Parex USA Educational Seminar for installation of system.
 - b. Shall possess a current certificate of education.
 - c. 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.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver TeifsAirtight System products in original packaging with manufacturer's identification.
- B. Storage: Store EIFS materials supplied by Parex USA in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40°F (4°C) and below 110°F (43°C) in accordance with manufacturer's instructions. Store insulation board flat.

1.8 PROJECT / SITE CONDITIONS

- A. Installation Ambient Air Temperature: Minimum of 40°F (4°C) and rising, and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply Teifs materials to substrates whose temperature are below 40°F (4°C) or contain frost or ice.
- C. Inclement Weather: Do not apply Teifs materials during inclement weather, unless appropriate protection is employed.

- D. Sunlight Exposure: Avoid, when possible, installation of the Teifs materials in direct sunlight. Application of Teifs Finishes in direct sunlight in hot weather may adversely affect aesthetics.
- E. Teifs materials shall not be applied if ambient temperature exceeds 120°F (49°C) or falls below 40°F (4°C) within 24 hours of application. Protect base coat from uneven and excessive evaporation during hot, dry weather.
- F. Prior to installation, the wall shall be inspected for surface contamination, or other defects that may adversely affect the performance of the Teifs materials and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate TeifsAirtight System installation with other construction operations.

1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide TeifsAirtight System Limited Warranty. See Teifs's warranty schedule for available Warranties.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Parex USA, Inc., 4125 E. LaPalma Ave., Suite 250, Anaheim, CA 92807
- B. Components: Obtain components of TeifsAirtight System from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project.

2.2 MATERIALS

- A. Secondary Water-Resistive Barrier:
 - 1. Parex USA Weatherseal™ Spray & Roll-on water resistive barrier coating. Two coats are required on plywood and OSB
 - 2. Parex USA Weatherseal™ Trowel-On water resistive barrier coating. Two coats may be required on plywood and OSB
 - 3. Parex USA 396 Sheathing Tape: Non-woven synthetic fiber tape to reinforce Weatherseal water-resistive barrier at sheathing board joints, into rough openings and other terminations into dissimilar materials available in 4 in, 6 in and 9 in widths
 - 4. Reinforcing Mesh: Min. 4 oz reinforcing mesh or Teifs Sheathing Tape to reinforce Parex USA Weatherseal Trowel-On water-resistive barrier at sheathing board joints, into rough openings and other terminations into dissimilar materials.
 - 5. Flashing Membrane: Self sealing, Polyester faced, rubberized asphalt membrane, 30 mils (0.76 mm) thick.
- B. Adhesives
 - 1. TeifsBase: 100% acrylic polymer based, requiring the addition of portland cement; used as an adhesive to laminate EPS Insulation Board to the substrate. Not for use with wood based sheathing
 - 2. TeifsBase DB: Copolymer based, factory blend of cement and proprietary ingredients; requiring the addition of water only, used as an adhesive to laminate EPS Insulation Board to the substrate. Not for use with wood based sheathing
 - 3. TeifsAdheez: 100% acrylic polymer based; ready to use, applied without the addition of cement; used as an adhesive to laminate EPS Insulation Board to gypsum sheathing, glass mat gypsum sheathing and wood based sheathing.
- C. Insulation Board: In compliance with manufacturer's requirements for Standard Extra System EIFS.
 - 1. Produced and labeled under a third party quality program as required by applicable building code; and produced by a manufacturer approved by Parex USA.
 - 2. Shall conform to ASTM C578, ASTM E2430, Type I and the Parex USA specification for Molded Expanded Polystyrene Insulation board.
 - 3. Maximum size shall be 2 ft x 4 ft (610 mm x 1219 mm).
 - 4. Thickness: ¾ in, minimum (19 mm)

D. Base Coats:

1. TeifsBase: 100% acrylic polymer base, requiring the addition of portland cement.
2. TeifsBase DB: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
3. TeifsStructure: 100% acrylic polymer base, ready to use, applied without the addition of cement.

EDITOR NOTE: RETAIN BELOW STANDARD MESH FOR TEIFSAIRTIGHT SYSTEM FOR STANDARD IMPACT RESISTANCE CLASSIFICATION.

E. Teifs Reinforcing Mesh:

1. TeifsMesh: Weight 4.8 oz. per sq. yd. (162 g/sq m); coated for protection against alkali. Standard reinforcement of TeifsFlex System, or for use with TeifsMat 15 or TeifsMat 20.
2. TeifsBakrap: Reinforcing mesh used for backwrapping and details, and to embed in any Teifs Base Coat.
3. 352 Self Adhesive Detail Mesh: Reinforcing mesh used for complex details.

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

4. TeifsMesh 6: Weight 6.0 oz. per sq. yd. (204 g/sq m); coated for protection against alkali reinforcement of TeifsFlex System to achieve ASTM E2486 Intermediate impact strength.
5. TeifsMesh 12: Weight 12 oz per sq. yd. (407 g/sq m) Reinforcing mesh used with TeifsFlex System, to achieve ASTM E2486 HIGH impact strength.
6. TeifsMat 15: Weight 15 oz. per sq. yd. (509 g/sq m) Reinforcing mesh used with TeifsFlex System; to achieve ASTM E2486 Ultra-High impact strength.
7. TeifsMat 20: Weight 20 oz. per sq. yd. (678 g/ sq m) Reinforcing mesh used with TeifsFlex System; to achieve ASTM E2486 Ultra-High impact strength.
8. TeifsKornerap: Reinforcing mesh used as corner reinforcement; required when using Ultra-High Impact 20 Mesh.

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

Locations: _____; ASTM E2486 Impact Classification: _____

F. Teifs Primers:

1. TeifsPrime: 100% acrylic based coating to prepare surfaces for Teifs finishes.
2. Teifs Sanded Primer: 100% acrylic based coating to prepare surface, recommended for Teifs Earthstone and TuffStone finishes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE, TEXTURE, & COLOR

G. Teifs Finish:

1. Teifs DPR Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer

-OR-

1. TeifsFlex Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer.

-OR-

1. Teifs astic Finish: Factory blended, 100 % acrylic polymer based elastomeric textured finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer

H. Parex USA DrainEdge™: Pre-punched strip of non-woven fabric to allow for drainage at the head of system penetrations.

I. Water: Clean, cool, potable water

J. Portland Cement: ASTM C150, Type I or Type I-II.

2.3 RELATED MATERIALS AND ACCESSORIES

- A. Substrate Materials:
 - 1. Glass mat gypsum sheathing conforming to ASTM C1177.
 - 2. Cement Fiber Sheathing conforming to ASTM C1186
 - 3. Gypsum Sheathing: Minimum 1/2 in (13 mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C79.
 - 4. Plywood: Minimum 15/32 in (12 mm) thick, PS 1, Exposure 1, C veneer facing out, panels gapped 1/8 in at all edges.
 - 5. Oriented Strand Board (OSB): 7/16" - 1/2" Wall-16 or Wall-24, approved by the APA, TECO, or PSI/PTL. Stamped as Exposure 1 or Exterior Sheathing with a PS2 or PRP-108 rating.
 - 6. Concrete Masonry Units (CMU): Non-painted (uncoated).
 - 7. Concrete (poured or pre-cast).
 - 8. Other Approved by Parex USA in writing prior to the project.
- B. Flashing: Refer to Division 07 Flashing Section for flashing materials.
- C. Sealant System:
 - 1. Sealant for expansion joints between panelized EIFS sections shall be ultra-low modulus designed for minimum 100% elongation and minimum 50% compression and as selected by Project Designer.
 - 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 Project Designer.
 - 3. Sealants shall conform to ASTM C920, Grade NS.
 - 4. Expansion joints between sections of EIFS shall have a minimum width of 3/4 in (19 mm).
 - 5. Perimeter seal joints shall be a minimum width of 1/2 in (12.7 mm).
 - 6. Sealant backer rod shall be closed-cell polyethylene foam.
 - 7. Apply sealant to tracks or base coat of EIFS.
 - 8. Refer to Parex USA current bulletin for listing of sealants which have been tested and have been found to be compatible with Teifs.
 - 9. Color shall be as selected by Project Designer.
 - 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

3.1 EXAMINATION

- A. Verify project site conditions under provisions of Section 01 00 00.
- B. Compliance: Comply with manufacturer's instructions for installation of TeifsAirtight.
- C. Substrate Examination: Examine prior to TeifsAirtight System installation as follows:
 - 1. Substrate shall be of a type approved by Parex USA.
 - 2. Plywood substrates shall be gapped 1/8 in (3.2 mm) at all edges. Plywood and OSB substrate cut edges (non-factory edges) must be sealed with a Parex USA water-resistive coating.
 - 3. Substrate shall be examined for soundness, and other harmful conditions.
 - 4. Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.

5. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
 6. Maximum deflection of the substrate shall be limited to L/240.
- D. Sealants and Backer Rod: To be installed, where required, in accordance with the sealant manufacturer's specifications and published literature, and using the sealant manufacturer's recommended primers.
 - E. Advise Contractor of discrepancies preventing installation of the TeifsAirtight System. Do not proceed with the TeifsAirtight System Assembly work until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Protection: Protect surrounding material surfaces and areas during installation of system.
- B. Clean surfaces thoroughly prior to installation.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 MIXING

- A. Mix Teifs proprietary products in accordance with manufacturer's instructions.

3.4 APPLICATION

- A. General: Installation shall conform to this specification and Teifs written instructions and drawing details.
- B. Water Resistive Barrier
 1. Install back-wrap mesh, or edge-wrap mesh at system terminations. Treat all sheathing joints with Parex USA Weatherseal and embed Sheathing Tape or 4 inch strips of Reinforcing mesh
 2. Flash all rough openings with Parex USA Weatherseal water-resistive barrier and embedded Sheathing Tape/Reinforcing Mesh or Peel and Stick Flashing Membrane.
 3. Apply Parex USA Weatherseal to the surface of the appropriate substrate. Over concrete and masonry, a skim coat of TeifsBase or TeifsStayDry base coat may be used as the water-resistive barrier.
 4. Treat the heads of all window, door and similar openings with DrainEdge and back-wrap mesh to allow for drainage at these locations.
- C. Insulation Board
 1. Install back-wrap mesh, or edge-wrap mesh at system terminations.
 2. Apply Teifs adhesive to backs of insulation boards with a notched trowel, with ribbons of adhesive oriented in a vertical direction (parallel to the 2 ft (61 mm) dimension of the EPS board).
 3. Install insulation board without gaps in a running bond pattern and interlocked at corners.
 4. Rasp irregularities off insulation board.
- D. 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.
- E. 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 or otherwise specified for the project.
- F. Finish Coat: Apply finish coat to match specified finish type, texture, and color. Do not apply finish coat to surfaces to receive sealant. Keep finish out of sealant joint gaps.

3.5 CLEAN-UP

- A. Removal: Remove and legally dispose of TeifsAirtight System component debris material from job site.
- B. Clean EIFS surfaces and work area of foreign materials resulting from EIFS operations.

3.6 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt, precipitation, freezing and continuous high humidity until fully cured and dry.

- D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Project Designer/Owner.

END OF SECTION

Disclaimer This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project.

PRODUCT PERFORMANCE SHEET

EIFS Fire Performance	Method	Results
Surface Burning Characteristics	ASTM E84	Flame Spread: 0 to 15 Smoke Developed: 0 to 15
Fire Resistance	ASTM E119	1 hour assembly, See Current ICC Report
Radiant Heat Exposure	NFPA 268	Pass: 1 in – 4 in EPS
Full-Scale Multi-Story Fire Test	NFPA 285	Pass

EIFS Strength	Method	Results
Transverse Wind Load	ASTM E330	Negative Wind Load: See Current ICC Report
Tensile Bond Strength	ASTM E2134	Meets ASTM and IBC Criteria

EIFS Environmental Durability	Method	Results
Abrasion Resistance	ASTM D968	1000 liters: no deleterious effect
Accelerated Weathering	ASTM G153	5000 hours: no deleterious effect
Freeze-Thaw Resistance	ASTM E2485	60 cycles: no deterioration 10 cycles: pass
Mildew Resistance	ASTM D3273	60 days: no growth
Moisture Resistance	ASTM D2247	28 days: no deleterious effect
Salt Fog Resistance	ASTM B117	600 hours: no deterioration
Water Penetration	ASTM E331	12 psf for 45 minutes IBC Section 1403.2: Pass 2 Hrs

Parex USA Weatherseal	Method	Results
Accelerated Weathering	AATCC 127	Pass: no water penetration
Air Leakage	ASTM E283	< 0.004 cfm/ft ²
Elongation	ASTM D412	360% @ 19 mils
Freeze-Thaw	ASTM E 2485	Pass
Restrained Environmental	ICC ES AC 212	Pass
Surface Burning Characteristics	ASTM E84	Pass
Tensile Bond Strength	ASTM E 2134	Pass all listed substrates and flashing materials
Water Resistance	ASTM D 2247	Pass
Water Penetration	ASTM E331	Pass
Water vapor transmission	ASTM E96	12 U.S. perms
Weathering	ICC ES AC 212	Pass

*No deleterious effects: no cracking, checking, crazing, erosion, rusting, blistering.

REINFORCING MESH IMPACT RESISTANCE	Classification	Impact Range (in-lbs)
TeifsMesh	Standard	25-49
TeifsMesh 6	Intermediate	50-89
TeifsMesh 12	High	90-150
TeifsMesh 12/TeifsMesh	High	90-150
TeifsMesh12/TeifsMesh 12	High	90-150
TeifsMat 15/TeifsMesh	Ultra High	>150
TeifsMat 20/TeifsMesh	Ultra High	>150

Where several tests on different materials are summarized, a range of values is shown. This summary has been prepared to provide quick but partial information on how certain combinations of Teifs products perform during certain tests. It is not a complete description of the test procedures or of the results thereof. Parex USA will mail copies of original test reports at no charge on request. Please contact Parex USA if further information is required.

NOTES



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CSI SECTION 07 24 00



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