

SUBMITTAL: SECTION 07 24 00

ULTRA-GUARD EIFS™ WOODPECKER-RESISTANT EIFS • STO COMPONENTS

PROJECT INFORMATION

Project name _____ Submittal no. _____

Project address _____

Owner _____ Architect / engineer _____

General contractor _____ Contact / phone _____

Spec section _____ Date submitted _____ Revision no. _____

Submitted by: Modern Wall Systems, EIFS installer and Ultra-Guard system developer • 900 Commonwealth Pl, Suite 104, Virginia Beach, VA 23464 • 757-833-4063 • ems@eifswallsystems.com

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REVIEW STAMPS

CONTRACTOR REVIEW
Reviewed by / date

ARCHITECT / ENGINEER ACTION
☐ No exceptions taken ☐ Make corrections noted
☐ Revise and resubmit ☐ Rejected
Reviewed by / date

TAB

1



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Technical Data Sheet

Source: Modern Wall Systems

ULTRA-GUARD EIFS™

Woodpecker-Resistant Insulated Stucco System

DESCRIPTION

Ultra-Guard EIFS is an Exterior Insulation and Finish System (EIFS) developed by Modern Wall Systems that adds a rigid **cement board impact layer** between the continuous insulation and the reinforced base coat. Standard EIFS places a thin lamina directly over soft foam, which woodpeckers can easily drill. Ultra-Guard places PermaBASE PLUS® cement board over the foam, so the finished wall face is hard and durable. The system keeps the thermal performance, drainage and stucco appearance of conventional EIFS.

BASIC USES

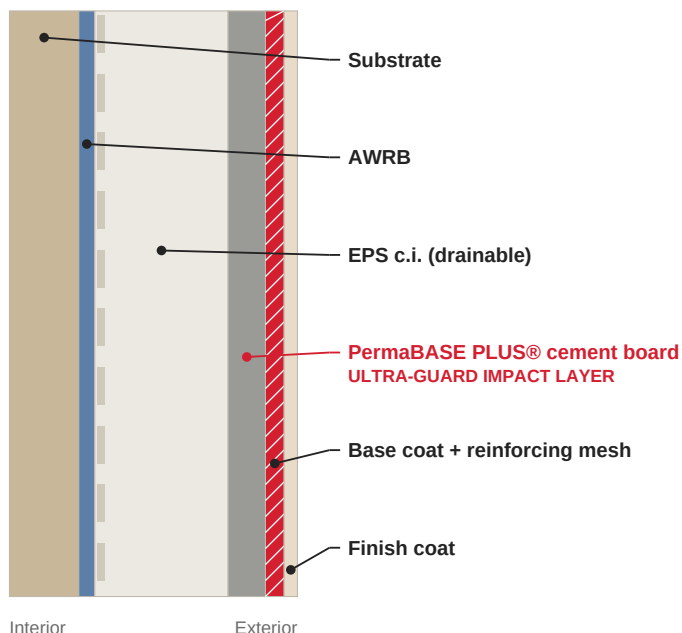
Retrofit: Repair and protection of existing EIFS walls with woodpecker damage, including chimney chases, gable ends, upper elevations and walls near wooded areas, water or open land.

New construction: Residential, multi-family and light commercial exterior walls where bird damage, impact or abuse resistance is a design concern.

ADVANTAGES

- Rigid cement board impact layer resists woodpecker drilling and everyday impact damage.
- Drainable (moisture-managed) assembly with a continuous air- and water-resistive barrier.
- Continuous insulation (c.i.) on the exterior of the substrate reduces thermal bridging.
- Same textures, colors and architectural details as conventional EIFS finishes.
- Cement board component is moisture resistant and will not rot, disintegrate or swell when exposed to water (manufacturer data).
- Cement board component carries a Class A surface burning rating (0 flame spread, 0 smoke developed per ASTM E84, manufacturer data).
- Installed and inspected by Modern Wall Systems, EIFS specialists since 1991.

TYPICAL ULTRA-GUARD WALL SECTION



SYSTEM COMPONENTS

No.	Layer	Ultra-Guard Component
1	Substrate	Exterior gypsum sheathing, plywood, CMU or concrete
2	AWRB	Fluid-applied or sheet air- and water-resistive barrier
3	Continuous insulation	EPS board, drainable application
4	Impact layer	PermaBASE PLUS® cement board, ½" (12.7 mm)
5	Base coat + mesh	Polymer-modified base coat with embedded fiberglass mesh
6	Finish coat	Factory-tinted acrylic or elastomeric textured finish

Job Name			
Contractor		Date	
Submittal Approvals: (Stamps or Signatures)			

CORE LAYERS OF A NON-BRANDED EIFS WALL

Every EIFS wall is built from the same core layers, listed from the structure outward. The right-hand column shows how Ultra-Guard specifies each one.

Layer	Function (Industry Definition)	Ultra-Guard EIFS Specification
Substrate	The underlying structural wall, such as exterior gypsum sheathing, plywood, concrete masonry units (CMU) or concrete.	Sound, dry, code-compliant substrate. Damaged or wet sheathing found during retrofit is removed and replaced before the system is installed.
Air- and Water-Resistive Barrier (AWRB)	A fluid-applied or sheet membrane applied to the substrate to prevent moisture infiltration.	Continuous AWRB applied to the full wall area, lapped and integrated with flashings at windows, doors, penetrations, roof-to-wall intersections and terminations.
Continuous Insulation (c.i.)	Rigid foam boards, typically expanded polystyrene (EPS) or extruded polystyrene/mineral wool, adhesively or mechanically attached to provide high thermal R-value.	EPS insulation board installed in a drainable configuration (vertical notched adhesive ribbons or grooved board). Board thickness is set by project R-value and design requirements.
Ultra-Guard Impact Layer	<i>Not part of a conventional EIFS wall. This is the Ultra-Guard addition.</i>	PermaBASE PLUS® cement board , ½" (12.7 mm), mechanically fastened through the insulation into the framing or structural substrate. Fastener type, length and spacing follow the manufacturer and the project design. Board joints are treated before the base coat is applied.
Base Coat	A polymer- or cement-based mixture troweled over the insulation.	Polymer-modified cementitious base coat troweled over the cement board, applied to the manufacturer's specified thickness.
Reinforcing Mesh	Open-weave fiberglass mesh embedded into the wet base coat to provide impact resistance and structural integrity.	Alkali-resistant fiberglass mesh fully embedded in the wet base coat with no mesh pattern showing. Laps and diagonal reinforcement at the corners of openings. High-impact mesh is available at grade and high-traffic areas.
Finish Coat	A factory-tinted, textured acrylic or elastomeric topcoat that delivers the final color, appearance (such as a sand or swirled stucco texture) and weather resistance.	Factory-tinted acrylic or elastomeric finish. On retrofits, texture and color are matched to the existing walls.

SYSTEM CLASSIFICATIONS

Classification	Description	Ultra-Guard
Drainable (Moisture-Managed) EIFS	Includes a drainage plane or gap behind the insulation board, often created with notched adhesive ribbons or grooved foam, so incidental moisture can escape. This is the standard in modern building codes to prevent trapped water, mold and rot.	Specified. Ultra-Guard is installed as a drainable system.
Barrier EIFS (Non-Drainable)	Relies on a single line of defense at the outer face, where the base coat and sealants act as the complete weather barrier. It has no dedicated drainage cavity.	Not used for Ultra-Guard. This type is common on older buildings and is identified during inspection before retrofit.

HOW THE IMPACT LAYER WORKS

Woodpeckers target EIFS because the wall sounds hollow and the foam behind a thin finish gives way easily. Ultra-Guard puts a rigid, fastened cement board layer behind the reinforced base coat, so a peck lands on a hard surface instead of soft foam. The insulation stays behind the board, where it keeps providing continuous R-value and the drainage path.

APPLICABLE STANDARDS & REFERENCES

ASTM C1325 (cementitious backer units) • ASTM E84 (surface burning) • ASTM E96 (water vapor transmission) • ASTM D3273 (mold resistance) • ASTM E2273 (drainage efficiency of EIFS clad wall assemblies) • ASTM E2568 (PB EIFS specification) • IRC R703 and IBC Chapter 14 exterior wall coverings.

TECHNICAL DATA: IMPACT LAYER COMPONENT

Values below are the manufacturer's published data for ½" PermaBASE PLUS® Cement Board (National Gypsum / PermaBASE Building Products, LLC). They describe the cement board component only and are not results for the complete Ultra-Guard assembly.

Property	½" PermaBASE PLUS	Test Method
Thickness, nominal	½" (12.7 mm)	—
Weight, nominal	2.5 lbs/sq ft	—
Flexural strength	≥ 750 psi	ASTM C947
Compressive strength	1,250 psi	ASTM D2394
Fastener holding (wet & dry)	≥ 90 lbs	ASTM C473
Falling ball impact (12" drop)	Pass	ASTM D1037
Wind load (studs 16" o.c.)	35 psf	—
Freeze/thaw cycles	100	ASTM C666
Water absorption (% of weight)	< 8%	ASTM C473
Permeance	> 10 perms	ASTM E96
Linear expansion w/ moisture	≤ 0.07%	ASTM D1037
Thermal resistance	R = 0.37	ASTM C518
Mold resistance	Score of 10	ASTM D3273
Surface burning	Class A (0 / 0)	ASTM E84
Product standard	ASTM C1325	—

Source: PermaBASE PLUS® Cement Board Technical Information, 09 28 00 / NGC. See the manufacturer's sheet for test conditions and footnotes.

CONTACT

Modern Wall Systems

900 Commonwealth Pl, Suite 104, Virginia Beach, VA 23464
757-833-4063 • ems@eifswallsystems.com
eifswallsystems.com/ultraguard

Industry layer and classification definitions are based on information published by EIMA (EIFS Industry Members Association), Sto Corp., Dryvit, Sika and Master Wall. Ultra-Guard EIFS™ is a trademark of Modern Wall Systems. PermaBASE PLUS® is a registered trademark of PermaBASE Building Products, LLC. Information is subject to change without notice.

INSTALLATION OVERVIEW

Ultra-Guard EIFS is installed only by Modern Wall Systems crews. The sequence below is a summary. The project scope and the component manufacturers' instructions govern.

01 Inspect & prepare. Inspect the substrate. On retrofits, remove damaged EIFS and replace wet or deteriorated sheathing. Install flashings at openings and roof-to-wall intersections.

02 AWRB. Apply a continuous air- and water-resistive barrier and integrate it with all flashings and terminations.

03 Insulation. Install EPS board in a drainable configuration with tight joints and staggered vertical joints.

04 Impact layer. Fasten PermaBASE PLUS cement board through the insulation into framing or substrate. Butt edges closely without forcing them, stagger end joints and treat joints.

05 Base coat & mesh. Trowel on the base coat and fully embed the reinforcing mesh. Add diagonal mesh at opening corners and high-impact mesh where specified.

06 Finish & seal. Apply the tinted finish coat to match texture and color. Install backer rod and sealant at joints, openings and dissimilar materials.

CONTROL JOINTS

Provide expansion and control joints where building expansion joints occur, at floor lines and story separations, where the substrate changes, at changes in building shape or structural system, and where EIFS meets dissimilar materials. Joints are never bridged with base coat or finish.

MAINTENANCE

- Keep roofing, sealant joints, windows and flashings weather-tight.
- Repair water leaks or condensation sources as soon as they are found.
- Inspect sealant joints periodically and replace failed sealant.
- Clean with low-pressure water and mild detergent. Do not use high-pressure washing.

LIMITATIONS

- Ultra-Guard resists woodpecker damage. It does not deter birds from landing, perching or making noise on the building.
- System performance depends on a sound substrate and properly installed flashings and sealants.
- Not intended for below-grade use or locations with continuous water exposure.

WARRANTY

1-year Modern Wall Systems labor warranty, plus the component manufacturers' material warranties. Terms are stated in each project agreement.

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Guide Specification, Section 07 24 00

Source: Modern Wall Systems (Sto version)

SECTION 07 24 00

ULTRA-GUARD EIFS™: WOODPECKER-RESISTANT EXTERIOR INSULATION AND FINISH SYSTEM

About this guide specification. This section is written for architects, engineers and specifiers to edit into project manuals. Text in *red italics* is a specifier note: edit or delete it before issuing. Fill in bracketed items [] for the project. Coordinate with Modern Wall Systems on project-specific details before bidding.

PART 1 GENERAL

1.01 SUMMARY

A. Section includes a drainable, woodpecker-resistant exterior insulation and finish system (EIFS) consisting of:

1. Air- and water-resistive barrier (AWRB) over the substrate.
2. Expanded polystyrene (EPS) continuous insulation, installed in a drainable configuration.
3. Ultra-Guard impact layer: ½ in. cement board fastened through the insulation.
4. Reinforced base coat, fiberglass reinforcing mesh and textured finish coat.
5. Trims, accessories, joint treatment and transitions to adjacent construction.

B. Related sections:

1. 06 16 00 Sheathing.
2. 07 62 00 Sheet Metal Flashing and Trim.
3. 07 92 00 Joint Sealants.
4. 08 50 00 Windows; 08 10 00 Doors and Frames.

1.02 REFERENCES

- A. ASTM C578: Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- B. ASTM C1325: Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units.
- C. ASTM E2568: Standard Specification for PB Exterior Insulation and Finish Systems.
- D. ASTM E2273: Standard Test Method for Determining the Drainage Efficiency of EIFS Clad Wall Assemblies.
- E. ASTM E2486/E2486M: Standard Test Method for Impact Resistance of Class PB and PI EIFS.
- F. ASTM E84: Surface Burning Characteristics of Building Materials.
- G. ASTM C920: Standard Specification for Elastomeric Joint Sealants.
- H. International Building Code (IBC) Chapter 14 and International Residential Code (IRC) Section R703, as adopted by the authority having jurisdiction.
- I. EIMA (EIFS Industry Members Association) guidelines for EIFS installation.

1.03 DEFINITIONS

- A. **Impact layer:** The ½ in. cement board placed over the EPS insulation and under the base coat. It is the component that distinguishes Ultra-Guard from conventional EIFS.
- B. **Lamina:** The base coat, embedded reinforcing mesh and finish coat together.
- C. **Drainable EIFS:** An EIFS with a drainage plane behind the insulation that lets incidental water drain to the exterior.

1.04 SUBMITTALS

- A. Product data: Ultra-Guard EIFS Technical Data Sheet and manufacturer data sheets for each component.
- B. Shop drawings: Project-specific details at terminations, openings, penetrations, expansion joints, roof-to-wall intersections and parapets.
- C. Samples: Finish samples of each selected color and texture (Ultra-Guard color code and texture).
- D. Qualification data: Installer qualifications per Article 1.05.
- E. Warranty: Sample of the Ultra-Guard Certificate of Warranty and component manufacturers' material warranties.

F. Closeout: Ultra-Guard Owner Maintenance Guide.

1.05 QUALITY ASSURANCE

- A. Installer: Modern Wall Systems, Virginia Beach, VA (757-833-4063), the developer and installer of the Ultra-Guard EIFS system.
- B. Mockup: Build a mockup of approximately [4 ft x 4 ft] [size indicated], including a window or penetration detail and a sealant joint, showing color, texture and workmanship. The approved mockup is the standard for the work. [Mockup may remain as part of the work.]
- C. Preinstallation meeting: Conduct at the project site with the contractor, installer, and window, roofing and flashing trades before starting work.

Specifier Note: Retain the mockup paragraph for commercial and multi-family projects. Delete for single-family retrofits.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original unopened packaging with labels intact.
- B. Store wet materials off the ground, protected from weather, and within the temperature range required by the manufacturer. Protect from freezing.
- C. Protect EPS insulation and cement board from sunlight exposure beyond the manufacturer's limits, physical damage, and contact with solvents.

1.07 FIELD CONDITIONS

- A. Apply wet materials only when ambient and surface temperatures are within the manufacturer's limits, and are expected to stay within them during cure.
- B. Do not apply during rain or onto wet or frozen surfaces. Protect fresh work from rain until cured.
- C. Provide temporary protection or enclosure where required to maintain application conditions.

1.08 WARRANTY

- A. Installer labor warranty: Modern Wall Systems one (1) year labor warranty from substantial completion, as stated in the Ultra-Guard Certificate of Warranty.
- B. Material warranties: Component manufacturers' standard material warranties, as issued by each manufacturer for the installed assembly.

Specifier Note: Confirm material warranty availability for the specific component products selected before bid.

PART 2 PRODUCTS

2.01 SYSTEM

- A. Basis of design: **Ultra-Guard EIFS™**, Modern Wall Systems, using Sto components based on the StoTherm® ci (System Bulletin SB-5200, Rev. 010), modified by the Ultra-Guard cement board impact layer. Substitutions: [Not permitted.] [Per Division 01.]
- B. System type: Drainable (moisture-managed) EIFS with a cement board impact layer.
- C. Performance: Provide a system that drains incidental water to the exterior, accommodates building movement at expansion joints, and resists woodpecker drilling and impact through the cement board impact layer.

Specifier Note: Insert the ASTM E2486 impact classification here when system test results are published.

2.02 MATERIALS

- A. Air- and water-resistive barrier: Sto Gold Coat® (or Sto GoldSeal STPE / Sto AirSeal) air and moisture barrier, per SB-5200.
- B. Insulation adhesive: Sto BTS® Plus or Sto TurboStick™ adhesive applied in vertical ribbons, per SB-5200.
- C. EPS insulation board: Sto EPS Insulation Board, ASTM C578 Type I, aged per the manufacturer's requirements, square-edged.
 - 1. Thickness: [] in. [As indicated on drawings].
 - 2. Grooved drainage board may be used instead of notched adhesive.
- D. Cement board impact layer: **PermaBASE PLUS® Cement Board**, PermaBASE Building Products, LLC, ½ in. (12.7 mm), ASTM C1325.
- E. Fasteners: Corrosion-resistant screws compatible with the cement board manufacturer's requirements, with length to pass through the board and insulation and engage framing or structural substrate per the fastening design.

- F. Cement board joint treatment: Alkali-resistant fiberglass joint tape embedded in base coat.
- G. Base coat: Sto BTS® Plus (PB 80727) or Sto Armat® Classic Plus (PB 81738) base coat.
- H. Reinforcing mesh: Sto Mesh (PB 90918/81920) at all walls; Sto Armor Mat (PB 80921) high-impact mesh where specified.
 - 1. [High-impact mesh, under standard mesh, at the first floor and other areas indicated.]
- I. Finish: Factory-tinted 100% acrylic or elastomeric textured finish. Color: [Ultra-Guard UG-____]. Texture: [Fine sand] [Medium sand] [Coarse sand] [Swirl] [Freestyle]. Product: Sto textured finish (Stolit®, StoLotusan® or as selected), with StoPrime Sand primer where used.
- J. Trims and accessories: Sto starter track and accessories per Sto Guide Details.
- K. Sealant: Sto STPE sealant listed in SB-5200 for penetrations and dynamic joints, or Sto-approved ASTM C920 sealant, with closed-cell backer rod. See Section 07 92 00.

Specifier Note: Obtain written acceptance from Sto Corp. for use of its base coat, mesh and finish over PermaBASE PLUS cement board in this assembly, and for issuance of material warranties.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify the substrate is sound, dry, plane and securely attached, and that window, door and roof flashings required before EIFS installation are in place.
- B. Retrofit: Remove damaged EIFS to sound edges. Measure moisture in exposed sheathing and replace wet or deteriorated sheathing and framing before proceeding.
- C. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION: AIR- AND WATER-RESISTIVE BARRIER

- A. Treat sheathing joints, inside and outside corners, and rough openings per the AWRB manufacturer.
- B. Apply the AWRB continuously over the full wall area. Lap and integrate it shingle-fashion with window, door and through-wall flashings so water drains to the exterior.

3.03 INSTALLATION: INSULATION

- A. Apply adhesive in vertical notched ribbons so drainage channels run unobstructed to the base of the wall.
- B. Install boards in a running bond with vertical joints staggered and tightly abutted. Fill gaps with insulation slivers or approved foam, not base coat.
- C. Do not align board joints with the corners of openings. Use L-shaped boards at window and door corners.
- D. Rasp the insulation surface flat before installing the cement board.

3.04 INSTALLATION: ULTRA-GUARD IMPACT LAYER

- A. Install cement board over the insulation with ends and edges closely butted but not forced. Stagger end joints, and offset board joints from insulation joints.
- B. Fasten through the insulation into framing or the structural substrate per the fastening design, driving fasteners in the field of the board first and working toward the edges. Set fastener heads flush without crushing the board or insulation.
- C. Treat all board joints with alkali-resistant joint tape embedded in base coat. Do not bridge expansion joints.

Specifier Note: Fastener type, length and spacing through the insulation must be determined for each project by Modern Wall Systems and the design professional, based on framing, insulation thickness and design wind loads.

3.05 INSTALLATION: BASE COAT, MESH AND FINISH

- A. Apply base coat over the cement board and fully embed the reinforcing mesh with no mesh pattern visible. Lap mesh at edges per the manufacturer.
- B. Install diagonal mesh strips at the corners of openings before the full mesh layer. Back-wrap or use trims at all terminations.
- C. Where specified, install high-impact mesh butted (not lapped) under the standard mesh.
- D. Apply finish in the selected texture to the minimum thickness required by the manufacturer. Work to a wet edge and from corner to corner or joint to joint to avoid cold joints. Use material from a single batch on each elevation.

3.06 JOINTS AND SEALANTS

- A. Provide expansion joints at building expansion joints, floor lines of wood-frame construction, changes in substrate, and where EIFS meets dissimilar materials.
- B. Leave sealant joints at windows, doors, penetrations and terminations at a minimum width of [¾ in.] at expansion joints and [½ in.] at perimeter joints, or as indicated.
- C. Prime the joint substrate as required, install backer rod, and apply sealant to the base coat, not the finish, per Section 07 92 00. Leave weeps open at sill and base terminations.

3.07 FIELD QUALITY CONTROL

- A. Staged inspections: Inspect and document each stage before it is covered:
 - 1. AWRB and flashing integration.
 - 2. Insulation installation and drainage configuration.
 - 3. Cement board fastening and joint treatment.
 - 4. Base coat and mesh embedment.
 - 5. Finish coat and sealant joints.
- B. Correct deficient work before it is covered by the next stage.

3.08 CLEANING AND PROTECTION

- A. Remove spills and overspray from adjacent surfaces. Protect completed work from damage and contamination until substantial completion.
- B. Turn over the Ultra-Guard Owner Maintenance Guide and Certificate of Warranty at completion.

END OF SECTION 07 24 00

Ultra-Guard EIFS™ is a trademark of Modern Wall Systems. PermaBASE PLUS® is a registered trademark of PermaBASE Building Products, LLC. This guide specification is provided for use by design professionals, who are responsible for its suitability for each project.

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Typical Construction Details

Source: Modern Wall Systems

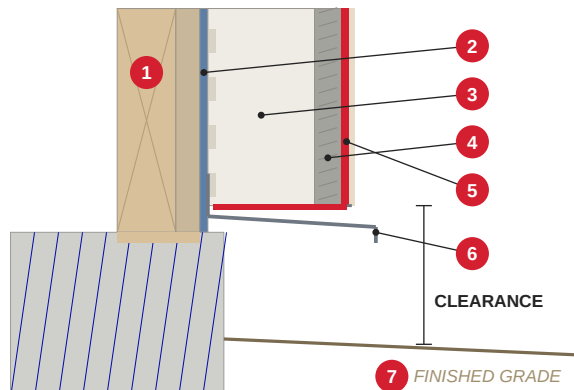
Project-specific details are inserted behind the typical details where required. Sto system details apply where Ultra-Guard details are silent.

Typical Construction Details

Schematic details for design coordination • Not to scale

D1 BASE OF WALL TERMINATION

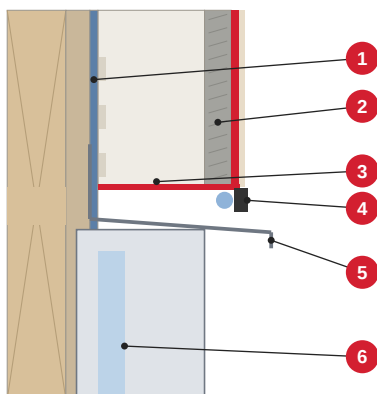
NOT TO SCALE



- 1 Wall framing and sheathing (exterior gypsum, plywood/OSB or CMU per project).
- 2 AWRB, continuous, lapped over the base flashing.
- 3 EPS insulation with vertical drainage channels (notched adhesive or grooved board).
- 4 PermaBASE PLUS® ½" cement board impact layer, fastened through EPS (see D6).
- 5 Base coat + reinforcing mesh + finish. Back-wrap or use trim at the termination.
- 6 Starter track / base flashing with drip edge. Keep the drainage path to the exterior open.
- 7 Terminate EIFS above finished grade: min. 8" above soil / 2" above paving, or as required by code and the manufacturer.

D2 WINDOW HEAD

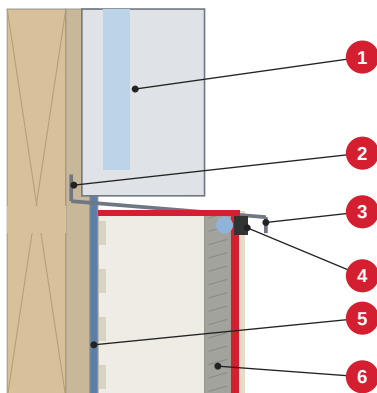
NOT TO SCALE



- 1 AWRB lapped over the head flashing leg (shingle-fashion).
- 2 Ultra-Guard impact layer and lamina continue to the head.
- 3 EPS with lamina back-wrapped at the head termination.
- 4 Sealant joint with backer rod, ½" min. Seal to base coat, not finish.
- 5 Head flashing with end dams and drip, extending past the face of the EIFS.
- 6 Window unit installed and flashed per the window manufacturer and AWRB system.

D3 WINDOW SILL

NOT TO SCALE



- 1 Window unit (shown for reference), installed and flashed per the window manufacturer.
- 2 Sloped sill pan flashing with back dam and end dams, installed before the window.
- 3 Pan flashing extends past the EIFS face with drip.
- 4 Sealant joint with backer rod under the sill. Do not block drainage from the sill pan.
- 5 AWRB lapped under the sill pan flashing (shingle-fashion).
- 6 EPS, cement board and lamina below, back-wrapped at the top edge.

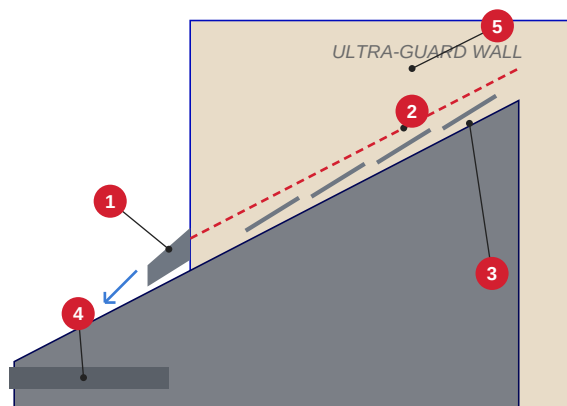
Schematic only. Project-specific details must be prepared and coordinated with the design professional, window, roofing and component manufacturers.

Typical Construction Details

Schematic details for design coordination • Not to scale

D4 ROOF-TO-WALL WITH KICKOUT FLASHING (ELEVATION)

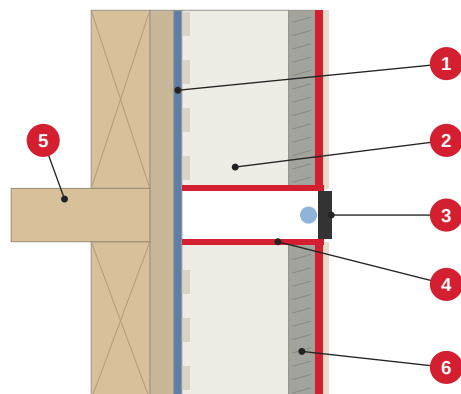
NOT TO SCALE



- 1 Kickout (diverter) flashing at the bottom of every roof-to-wall intersection, directing water into the gutter, away from the wall.
- 2 Terminate EIFS a min. 2" above the roof surface (dashed line). Do not embed the lamina in roofing.
- 3 Step flashing at each shingle course, lapped behind the AWRB.
- 4 Gutter set so the kickout discharges into it.
- 5 Counter-flashing / AWRB integration per the roofing and AWRB manufacturers.

D5 EXPANSION JOINT AT FLOOR LINE

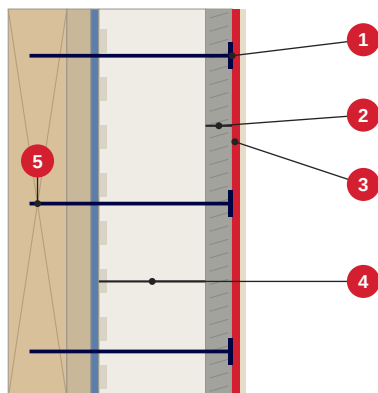
NOT TO SCALE



- 1 AWRB continuous behind the joint. Add a transition membrane where required.
- 2 EIFS above and below the joint, back-wrapped at each edge.
- 3 Sealant with backer rod, 3/4" min. joint width, sealed to base coat.
- 4 Do not bridge the joint with insulation, cement board, mesh or finish.
- 5 Floor line / rim joist location in wood-frame construction (shrinkage).
- 6 Ultra-Guard impact layer stops at each side of the joint.

D6 ULTRA-GUARD IMPACT LAYER FASTENING

NOT TO SCALE



- 1 Corrosion-resistant screws through the cement board and EPS into framing or the structural substrate. Heads flush, without crushing the board.
- 2 Cement board joints staggered and closely butted, not forced.
- 3 Board joints treated with alkali-resistant joint tape embedded in base coat.
- 4 EPS joints offset from cement board joints.
- 5 Framing / substrate. Fastener type, length and spacing per the project fastening design.

Schematic only. Project-specific details must be prepared and coordinated with the design professional, window, roofing and component manufacturers.

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Standard Color Chart & Finish Samples

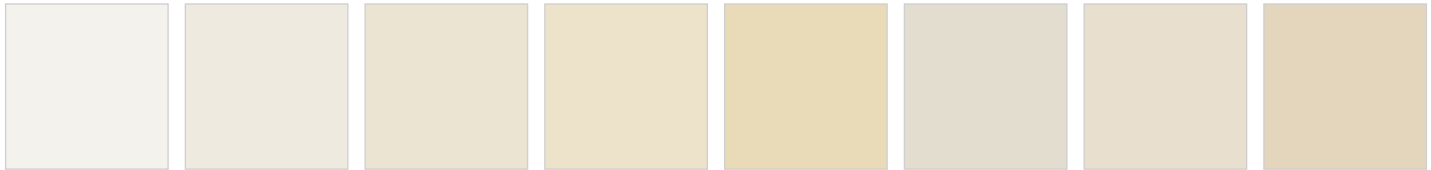
Source: Modern Wall Systems

Physical Sto finish samples of the selected color and texture are submitted separately. Selected color: UG-_____
Texture: _____

Standard Color Chart

Factory-tinted acrylic finishes • 40 standard colors

WHITES & CREAMS



Harbor White UG-101 LRV 89	Seashell UG-102 LRV 83	Linen UG-103 LRV 78	Ivory Lace UG-104 LRV 77	Buttercream UG-105 LRV 71	Oyster UG-106 LRV 73	Chantilly UG-107 LRV 74	Vanilla Bean UG-108 LRV 68
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SANDS & BEIGES



Dune UG-201 LRV 61	Sandbridge UG-202 LRV 56	Wheat UG-203 LRV 56	Parchment UG-204 LRV 57	Biscuit UG-205 LRV 49	Driftwood UG-206 LRV 50	Khaki UG-207 LRV 41	Almond UG-208 LRV 52
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TANS & TAUPES



Mocha Latte UG-301 LRV 38	Saddle Tan UG-302 LRV 33	Taupe UG-303 LRV 33	Fawn UG-304 LRV 37	Cobblestone UG-305 LRV 31	Toffee UG-306 LRV 26	Walnut UG-307 LRV 18	Mushroom UG-308 LRV 36
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GRAYS & STONES



Mist UG-401 LRV 70	Pewter UG-402 LRV 50	Limestone UG-403 LRV 55	Greige UG-404 LRV 44	Granite UG-405 LRV 31	Slate UG-406 LRV 22	Storm UG-407 LRV 15	Charcoal UG-408 LRV 8
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EARTH & ACCENTS



Terra Cotta UG-501 LRV 22	Adobe UG-502 LRV 31	Clay UG-503 LRV 19	Sage UG-504 LRV 40	Olive Grove UG-505 LRV 26	Coastal Blue UG-506 LRV 32	Colonial Red UG-507 LRV 9	Espresso UG-508 LRV 7
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Printed and on-screen colors are approximate. Make final selections from a physical finish sample. LRV values are approximate.

Color & Finish Selection

How to choose, sample and order Ultra-Guard finishes

STANDARD COLORS

The 40 colors on page 1 are Ultra-Guard standard colors. Each finish is factory-tinted, so the color runs through the full thickness of the finish coat instead of sitting on the surface like paint.

CUSTOM COLOR MATCHING

Need a color not shown? We can tint the finish to match any manufacturer's EIFS color card, a paint chip or an existing wall. On retrofits and repairs we match the color and texture of the surrounding walls, so the Ultra-Guard areas blend in with the rest of the building.

FINISH TEXTURES

Texture	Appearance	Typical Use
Fine Sand	Smooth, fine-grain sand float	Contemporary facades, trim and bands
Medium Sand	Uniform sand texture. Our standard finish.	General wall areas, residential and commercial
Coarse Sand	Heavier aggregate with more shadow	Large wall areas. Hides minor surface variation.
Swirl	Circular trowel pattern	Traditional stucco look, matching older EIFS
Freestyle	Hand-troweled, varied pattern	Custom or Old-World appearance

LIGHT REFLECTANCE VALUE (LRV)

LRV measures how much light a color reflects, from 0 (black) to 100 (pure white). Dark colors absorb more heat. On EIFS, high surface temperatures can stress the insulation board and finish.

- Colors marked **LRV < 20** on page 1 need review before use on large or sun-exposed wall areas. They are best suited to accents, trim and shaded elevations.
- Follow the finish manufacturer's minimum LRV requirements for the project.
- LRV values shown are approximate and calculated from the printed color. The finish manufacturer publishes the official values.

SELECTING YOUR COLOR

- **Ask for a physical sample.** Printers and screens do not reproduce EIFS colors accurately. We provide finish samples in the texture you choose.
- **View samples outdoors** on the building, in morning and afternoon light. Colors look lighter on a large wall than on a small chip.
- **Texture affects color.** Coarse textures cast more shadow and look slightly darker than fine textures in the same color.
- **Batch consistency:** order enough material for each elevation from a single batch, and finish wall areas break to break (at corners, joints or reveals) to avoid visible lap lines.

ORDERING

Give us the **color code** (for example UG-202 Sandbridge) and the **texture** on your quote or project agreement. Quotes from photos are free. On-site inspections and color consultations in Hampton Roads start at \$150.

Modern Wall Systems • 900 Commonwealth Pl, Suite 104, Virginia Beach, VA 23464 • 757-833-4063 • ems@eifswallsystems.com • eifswallsystems.com/ultraguard

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Air- and Water-Resistive Barrier

Source: Sto Corp.

INSERT BEHIND THIS TAB

Product	Use	Data sheet
Sto Gold Coat®	Fluid-applied air and moisture barrier (alternates: Sto GoldSeal STPE, Sto AirSeal)	SB-5200 (lists components)

Insert the manufacturer's current data sheet, application instructions and SDS for each product listed. Data sheet date / rev.: _____

System basis: Ultra-Guard EIFS with Sto components, based on the [StoTherm® ci \(System Bulletin SB-5200, Rev. 010\)](#), with the PermaBASE PLUS® cement board impact layer added over the EPS.

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EPS Insulation Board & Adhesive

Source: Sto Corp.

INSERT BEHIND THIS TAB

Product	Use	Data sheet
Sto EPS Insulation Board	ASTM C578 Type I; thickness per project	SB-5200
Sto BTS® Plus / Sto TurboStick™	Adhesive in vertical ribbons for drainage	PB 80727 Sto BTS Plus

Insert the manufacturer's current data sheet, application instructions and SDS for each product listed. Data sheet date / rev.: _____

System basis: Ultra-Guard EIFS with Sto components, based on the [StoTherm® ci \(System Bulletin SB-5200, Rev. 010\)](#), with the PermaBASE PLUS® cement board impact layer added over the EPS.

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PermaBASE PLUS® Cement Board

Source: PermaBASE Building Products, LLC

Manufacturer's technical information is reproduced as published.

PermaBASE PLUS[®] Cement Board

09 28 00 / NGC

Technical Information
800.NATIONAL • 800.628.4662

DESCRIPTION

PermaBASE PLUS[®] Cement Board is a lightweight, rigid substrate made of Portland cement, aggregate and glass mesh that provides an exceptionally hard, durable surface that is able to withstand prolonged exposure to moisture.

BASIC USES

Applications

Interior: PermaBASE PLUS Cement Board is a superior underlayment for many interior applications, including bathroom shower and tub enclosures, floors, countertops and backsplashes, saunas and steamrooms, accent areas and fireplaces.

Exterior: PermaBASE PLUS provides an excellent substrate for many exterior applications, including Cement Board Masonry Veneer Wall System (CBMV) and Cement Board Stucco System (CBSS). PermaBASE PLUS allows the combination of exterior finishes on one continuous substrate, providing greater design flexibility. It works well for commercial exteriors, residential exteriors, outdoor kitchens and decks.

Advantages

- EdgeTech[®] Reinforced Edge allows for closer fastener application of nails or screws at the edge without crumbling or spinout.
- PermaBASE PLUS is up to 15% lighter than other cement boards on the market.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.
- Can be cut using a standard utility knife and straightedge. With the unique PermaBASE PLUS core composition, little or no additional labor is needed to clean the edge after a cut.
- Is impact resistant, extremely durable and dimensionally stable. It has excellent overall flexural, compressive and tensile strength characteristics.
- Easier to cut and faster to install.
- IBC/IRC Compliant. Meets ASTM C1325.
- Is highly moisture resistant, and will not rot, disintegrate or swell when exposed to water.
- Use 1/2" (12.7 mm) PermaBASE PLUS in 1-hour and 2-hour rated assemblies (UL Classified).
- Achieves the lowest water-absorption rating of any cement board per ASTM C473, offering better tile bond.

- Achieves UL GREENGUARD Gold Certification for low chemical emissions into indoor air during product usage. For more information, visit: ul.com/gg.
- Qualifies as a low-VOC emitting material by meeting California Specification 01350. For more information, visit: calrecycle.ca.gov/greenbuilding/specs/section01350.

INSTALLATION RECOMMENDATIONS

Interior Applications

General: All framing should comply with local building code requirements and be designed to provide support with a maximum allowable deflection of L/360 under all intended loads. Framing members should be spaced a maximum of 16" o.c.

Note: Cut or score PermaBASE PLUS on printed side of panel. Install tile and tile setting materials in accordance with current ANSI specifications and Tile Council of North America (TCNA) guidelines.

Control joints: For interior installations, allow maximum of 30 lineal feet between control joints. A control joint must be installed, but is not limited to the following locations: where expansion joints occur in the framing or building (discontinue all cross furring members located behind joint); when boards abut dissimilar materials; where framing material changes; at changes of building shape or structural system; at each story separation. Place control joints at corners of window and door openings, or follow specifications of architect. Control joint cavity shall not be filled with coating or other materials.

Walls & Ceilings

Wall framing: Edges of PermaBASE PLUS parallel to framing should be continuously supported. Provide additional blocking when necessary to permit proper PermaBASE PLUS attachment.

Do not install PermaBASE PLUS directly over protrusions from stud plane, such as heavy brackets or fastener heads. Studs above a shower floor should be either notched or furred to accommodate the thickness of the waterproof membrane or pan. The surround opening for a tub or precast shower receptor should not be more than 1/4" larger than unit to be installed.

Ceiling framing: The deflection of the complete ceiling assembly due to dead load (including insulation, PermaBASE PLUS, bonding material and facing material) should not exceed L/360. The dead load applied to the ceiling frame should not exceed 10 psf. Ceiling joist or furring channel should not exceed 16" o.c.

(Edges of PermaBASE PLUS parallel to framing should be continuously supported.) Provide additional blocking when necessary to permit proper PermaBASE PLUS attachment.

(Continued on page 3)

Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

PermaBASE
PLUS
CEMENT BOARD

PermaBASE PLUS® Cement Board

TECHNICAL DATA

Physical Properties	1/2" PermaBASE PLUS	5/8" PermaBASE PLUS
Thickness ¹ , Nominal	1/2" (12.7 mm)	5/8" (15.9 mm)
Weight, Nominal	2.5 lbs./sq. ft. (12.2 k/m ²)	2.9 lbs./sq. ft. (14.2 k/m ²)
Edges	Round	Round
Flexural Strength ⁸	≥ 750 psi	>600 psi
Fastener Holding ¹ (Wet and Dry)	≥ 90 lbs.	≥ 90 lbs.
Freeze/Thaw Cycles ¹⁰	100	100
Compressive Strength ¹¹	1,250 psi	1,250 psi
Wind Load ¹¹ (Studs 16" o.c.)	35 psf	35 psf
Bending Radius	5' (1,524 mm)	5' (1,524 mm)
Thermal Resistance ³	R = .37, K = 2.7	R = .37, K = 2.7
Permeance ⁴	> 10 perms	> 10 perms
Water Absorption ⁹ (% of Weight)	< 8%	< 8%
Falling Ball Impact ⁷ (12" Drop)	Pass	Pass
Linear Expansion with Change Moisture ⁷	≤ 0.07%	≤ 0.07%
Mold Resistance ⁵ (ASTM D3273)	Score of 10	Score of 10
Mold Resistance ⁶ (ASTM G21)	Score of 0	Score of 0
Shear Bond Strength 7 days (psi) Dry-Set Portland Cement Mortar Latex-Portland Cement Mortar Organic Adhesives Type 1	Test Method ANSI A118.1 ANSI A118.4 ANSI A136.1	
Product Standard Compliance	ASTM C1325	
Fire-Resistance Characteristics		
Core Type	N/A	
UL Type Designation	PermaBASE PLUS	
Surface Burning Characteristics ²	Class A	
Flame Spread ²	0	
Smoke Development ²	0	
Applicable Standards and References		
ANSI A118.9 Test Methods and Specification for Cementitious Backer Units		
ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products		
ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus		
ASTM C666 Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing		
ASTM C947 Standard Test Method for Flexural Properties of Thin-Section Glass-Fiber-Reinforced Concrete (Using Simple Beam with Third-Point Loading)		
ASTM C1325 Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units		
ASTM D1037 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials		
ASTM D2394 Standard Test Methods for Simulated Service Testing of Wood and Wood-Base Finish Flooring		
ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber		
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials		
ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials		
ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference		
ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi		
PermaBASE Building Products, LLC Manufacturer Standards, NGC Construction Guide		
- Specified values per ASTM C1396, tested in accordance with ASTM C473. - Tested in accordance with ASTM E84. - Tested in accordance with ASTM C518. - Tested in accordance with ASTM E96. - Tested in accordance with ASTM D3273. - Tested in accordance with ASTM G21. - Specified values per ASTM C1325, tested in accordance with ASTM D1037. - Specified values per ASTM C1325, tested in accordance with ASTM C947. - Tested in accordance with ASTM C473, 24-hour immersion. - Per ANSI A118.9 procedure B. Tested in accordance with ASTM C666. - Tested in accordance with ASTM D2394. - Tested in accordance with ASTM E330.		

PermaBASE PLUS® Cement Board

(Continued from page 1)

PermaBASE PLUS Cement Board: Apply PermaBASE PLUS with ends and edges closely butted, but not forced, together. Stagger end joints in successive courses. Drive fasteners into field of cement board first, working toward ends and edges. Space fasteners maximum 8" o.c. for walls, 6" o.c. for ceilings with perimeter fasteners at least 3/8" and less than 5/8" from ends and edges. Ensure PermaBASE PLUS is tight to framing.

Joint reinforcement: Trowel bonding material to completely fill the tapered recessed board joints and gaps between each panel. On non-tapered joints, apply a 6" wide, approx. 1/16" thick, coat of bonding material over entire joint. For all joints, immediately embed 2" alkali-resistant fiberglass mesh tape fully into applied bonding material and allow to cure. Same bonding material should be applied to corners, control joints, trims or other accessories. Feather bonding material over fasteners to fully conceal.

Floors & Counters

Subfloor or Base: For flooring applications with 16" o.c. floor joists, 5/8" tongue and groove exterior grade plywood or 3/4" tongue and groove exterior grade OSB may be used. For 19.2" o.c. and 24" o.c. floor joists, 3/4" tongue and groove exterior grade plywood or OSB must be used. Tile size for floors with 24" o.c. floor joists must be 12" x 12" or larger. The joists and subfloor assembly must meet L/360, as well as the appropriate code tables, for live and dead loads.

Underlayment: Using a 1/4" square-notched trowel, apply a setting bed of Latex-Portland Cement mortar or Thin-Set mortar to the subfloor or counter base. Immediately laminate PermaBASE PLUS to subfloor or base leaving a 1/8" space between boards at all joints and corners. Leave a 1/4" gap along walls. Stagger joints so they do not line up with underlying substrate joints. Fasten PermaBASE PLUS every 8" o.c. throughout board field and around all edges while setting bed mortar is still workable. Around perimeter of each board, locate fasteners 2" from the corners and not less than 3/8" from the edges. Fill all joints solid with bonding material. On non-tapered joints such as butt ends, apply a 6" wide, 1/16" thick coat over the entire joint. For all joints, embed fiberglass mesh tape fully into applied bonding material; ensure that tape is centered over joint. Apply bonding material over fasteners to fully conceal. Remove all excess bonding material and allow to cure.

Handling and Project Conditions

- Avoid water exposure during shipping, handling, storage, installation and after installation of cement boards to avoid the formation of mold or mildew.
- Store cement boards off the ground and under cover. Store boards flat. Use sufficient supports extending under the entire length of cement boards to prevent sagging.
- Keep cement boards dry to minimize the potential for mold growth. Take adequate care while transporting, storing, applying and maintaining cement boards.
- Do not apply cement boards with visible signs of moisture damage or mold growth. Do not apply cement boards over other building materials where conditions exist that are favorable to mold growth.

Maintenance Following Application

- Maintain essential elements of sound weather-tight building envelope, including roofing, joint sealants, windows and flashings.
- Take immediate and appropriate remediation measures as soon as water leaks or condensation sources are identified.
- Perform routine cleaning and maintenance operations using methods that prevent moisture saturation of cement boards.
- Maintain final wall finishes to protect the cement board as well as support the structure.

LIMITATIONS

Interior

- Treat joints with alkali-resistant fiberglass mesh tape set in a polymer-modified mortar.
- Do not use conventional paper gypsum board tape, joint compound and gypsum board nails or screws.
- Do not exceed 16" (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
- Steel framing must be minimum 20-gauge (galvanized) (.0312" design thickness) or heavier.
- PermaBASE PLUS is not a water barrier. Consult local building code for moisture-barrier requirements.
- Do not use with vinyl flooring.
- To install interior direct-applied finishes to PermaBASE PLUS, you must embed reinforcing mesh in basecoat. Consult finish manufacturer for additional requirements.
- Do not expose PermaBASE PLUS to temperatures over 220°F (105°C).
- Do not use PermaBASE PLUS as a nailing base for other finishes.

SIZES AND PACKAGING

Thickness, Width and Length	# of Pcs. per Unit
1/2" x 36" x 5' (12.7 mm x 914 mm x 1,524 mm)	50
1/2" x 48" x 8' (12.7 mm x 1,219 mm x 2,438 mm)	40*
5/8" x 48" x 8' (15.9 mm x 1,219 mm x 2,438 mm)	32*

*Limited geographic availability.

PermaBASE
PLUS
CEMENT BOARD

PermaBASE PLUS® Cement Board

FOR MORE INFORMATION

Architectural Specifications

PermaBASE Building Products CSI MasterFormat® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: permabase.com.

Latest Technical Information and Update

Visit permabase.com or call National Gypsum Company Construction Services: 1-800-NATIONAL (628-4662).

Technical Information Información Técnica

1-800-NATIONAL®
1-800-628-4662

National Gypsum Company is the exclusive service provider for products manufactured by PermaBASE Building Products, LLC.

The PermaBASE family of products is manufactured by PermaBASE Building Products, LLC.



National Gypsum Company is the exclusive service provider for products manufactured by PermaBASE Building Products, LLC.

PermaBASE®
Building Products

PermaBASE Building Products, LLC
2001 Rexford Road
Charlotte, NC 28211
704.365.7300
permabase.com

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Fasteners & Fastening Design

Source: Fastener manufacturer / Modern Wall Systems

INSERT BEHIND THIS TAB

- Fastener product data (type, coating, length)
- Project fastening layout and spacing through the insulation
- Design wind load basis

Manufacturer _____

Product name _____

Data sheet date / rev. _____

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Base Coat, Reinforcing Mesh & Finish

Source: Sto Corp.

INSERT BEHIND THIS TAB

Product	Use	Data sheet
Sto BTS® Plus	Base coat and adhesive	PB 80727
Sto Armat® Classic Plus	Base coat (alternate)	PB 81738
Sto Mesh	Standard reinforcing mesh	PB 90918/81920
Sto Armor Mat	High-impact reinforcing mesh	PB 80921
Sto finish (Stolit®, StoLotusan® or as selected) / StoPrime Sand	Textured finish and optional primer	stocorp.com product bulletins

Insert the manufacturer's current data sheet, application instructions and SDS for each product listed. Data sheet date / rev.: _____

System basis: Ultra-Guard EIFS with Sto components, based on the [StoTherm® ci \(System Bulletin SB-5200, Rev. 010\)](#), with the PermaBASE PLUS® cement board impact layer added over the EPS.

Confirm in writing with Sto Corp. that these products are accepted over PermaBASE PLUS® cement board in the Ultra-Guard assembly and that material warranties will be issued.

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Trims, Accessories & Sealant

Source: Sto Corp.

INSERT BEHIND THIS TAB

Product	Use	Data sheet
Sto starter track and accessories	Per Sto Guide Details	StoTherm ci detail booklet
Sto STPE sealant	Penetrations and dynamic joints (per SB-5200)	SB-5200

Insert the manufacturer's current data sheet, application instructions and SDS for each product listed. Data sheet date / rev.: _____

System basis: Ultra-Guard EIFS with Sto components, based on the [StoTherm® ci \(System Bulletin SB-5200, Rev. 010\)](#), with the PermaBASE PLUS® cement board impact layer added over the EPS.

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Safety Data Sheets (SDS)

Source: Sto Corp. / sealant manufacturer

INSERT BEHIND THIS TAB

Product	Use	Data sheet
SDS for each wet-applied product	Sto Gold Coat, adhesive, base coat, primer, finish, sealant	stocorp.com/product/bulletins

Insert the manufacturer's current data sheet, application instructions and SDS for each product listed. Data sheet date / rev.: _____

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Warranty (Sample)

Source: Modern Wall Systems / component manufacturers

Sample certificate. The executed certificate is issued at substantial completion. Sto Corp. and PermaBASE material warranties are inserted behind the sample.



Certificate No. UG-W-_____

INSULATED STUCCO SYSTEMS

CERTIFICATE OF WARRANTY

Ultra-Guard EIFS™ Woodpecker-Resistant Insulated Stucco System • Installed by Modern Wall Systems

PROPERTY OWNER

PROPERTY ADDRESS

AREAS / ELEVATIONS COVERED

DATE OF SUBSTANTIAL COMPLETION

FINISH COLOR CODE & TEXTURE

MWS QUOTE / INVOICE NO.

WARRANTY COVERAGE

Labor: Modern Wall Systems warrants its workmanship on the Ultra-Guard EIFS areas listed above against defects in installation for **one (1) year** from the date of substantial completion. During that period, MWS will repair installation defects at no charge to the owner.

Materials: System components carry the material warranties issued by their manufacturers, under each manufacturer's terms. Copies are provided with this certificate where issued.

System component	Manufacturer / product	Material warranty term
Base coat & reinforcing mesh	Sto Corp.	
Finish coat	Sto Corp.	
Cement board (PermaBASE PLUS®)	PermaBASE Building Products, LLC	
Air- and water-resistive barrier	Sto Corp.	

Not covered: damage from impact, vandalism, fire, flood, settlement, structural movement, acts of nature, or water entering through building components not installed by MWS (roofing, windows, doors, gutters, penetrations); failure to perform the maintenance in the Ultra-Guard Owner Maintenance Guide; alterations, attachments or repairs by others; and pressure washing. This warranty is valid only when the project agreement has been paid in full. Full terms are stated in the project agreement.

Authorized Representative, Modern Wall Systems_____
Date_____
Property Owner (acknowledgment)

SUBMITTAL • SECTION 07 24 00 • ULTRA-GUARD EIFS™

Owner Maintenance Guide

Source: Modern Wall Systems

Owner Maintenance Guide

Keep your Ultra-Guard walls performing and under warranty

CARING FOR YOUR ULTRA-GUARD WALLS

Ultra-Guard EIFS needs very little upkeep. Most problems on EIFS buildings start at the joints and openings around the wall, not in the wall surface. A short walk-around twice a year catches them early and keeps your warranty in good standing.

MAINTENANCE SCHEDULE

When	What to Check	What to Do
Every spring & fall	Sealant at windows, doors, vents, lights, hose bibs and expansion joints. Look for cracks, gaps, or sealant pulling away from either side.	Note any failed joints and call MWS for resealing. Don't cover failed sealant with new caulk.
Every spring & fall	Gutters, downspouts and kickout flashings at roof-to-wall intersections.	Keep gutters clear. Downspouts and kickouts must direct water away from the wall.
Every spring & fall	Wall surface: cracks, impact marks, staining, new holes or soft spots.	Photograph anything new and send it to MWS. Small repairs are simple when caught early.
Yearly	Ground clearance at the base of the wall (soil, mulch, pavers) and sprinkler spray.	Keep mulch and soil below the wall termination. Aim sprinklers away from the wall.
Yearly	Plants, vines and trees touching the wall.	Trim back to keep the wall dry and ventilated.
As needed	Dirt, mildew or algae on shaded sides.	Clean as described below.
After major storms	Impact damage, sealant damage, gutter damage.	Inspect and report damage promptly.

CLEANING

- Use a garden hose or low-pressure washer (under about 500 psi) with a wide fan tip, held well back from the wall.
- Use a mild detergent or an EIFS-safe cleaner and a soft brush, then rinse top to bottom.
- For mildew, use a cleaner approved by the finish manufacturer. Test a small hidden area first.
- **Never** use high-pressure washing, wire brushes, solvents or abrasive cleaners.

THINGS THAT CAN VOID YOUR WARRANTY

- Pressure washing or harsh chemical cleaning
- Mounting fixtures, satellite dishes, signs or brackets through the wall without sealing per MWS instructions
- Repairs, coatings or paint applied by others
- Ignoring failed sealant, gutters or flashings
- Soil, mulch or landscaping built up against the wall

ATTACHING ITEMS TO THE WALL

Anything fastened through Ultra-Guard (lights, house numbers, hose reels, satellite dishes) has to be anchored and sealed correctly or it becomes a leak point. Call MWS first. We can tell you the right anchor and sealant, or install it for you.

CALL MWS RIGHT AWAY IF YOU SEE

- Water stains, damp spots or peeling paint inside, below windows or at wall corners
- Cracks that are growing or wider than a hairline
- Bulging, soft or hollow-sounding areas
- New holes or bird activity on untreated walls nearby
- Sealant that has split or pulled loose

Modern Wall Systems

757-833-4063 • ems@eifswallsystems.com

Send photos for a free assessment of any concern.

Inspections from \$150 in Hampton Roads.



07 24 00 / EIFS

Owner Maintenance Guide

Keep your Ultra-Guard walls performing and under warranty

INSPECTION & MAINTENANCE LOG

Keep this log with your warranty certificate. A documented maintenance history supports warranty claims and adds value when you sell.

[illegible]

Property address Warranty cert. no.

SUBMITTAL • SECTION 07 24 00 • ULTRA-GUARD EIFS™

Installer Qualifications & Insurance

Source: Modern Wall Systems

Current certificates of insurance are attached behind this page.

INSTALLER QUALIFICATIONS

MODERN WALL SYSTEMS

Legal entity	www.eifswallsystems.com, LLC, dba Modern Wall Systems
Address	900 Commonwealth PI, Suite 104, Virginia Beach, VA 23464
Contact	757-833-4063 • ems@eifswallsystems.com • eifswallsystems.com
In business since	1991
Principal	Edward M. Santana, CEI, CEM, CEP
Role on this project	Ultra-Guard EIFS installer and system developer
Service area	Hampton Roads and Virginia. Other areas by project.

EXPERIENCE

- EIFS and stucco installation, repair, restoration and resurfacing on residential, multi-family and commercial buildings since 1991.
- EIFS and stucco inspections, including staged new-construction inspections (weather barrier, insulation, base coat, finish and sealant stages) and moisture investigations.
- Developer of the Ultra-Guard EIFS™ woodpecker-resistant system, with retrofit work on buildings with repeat woodpecker damage.
- Bilingual (English / Spanish) field documentation and crew supervision.

INSURANCE

Coverage	Carrier	Certificate
General liability	Next Insurance	COI issued per project, naming the certificate holder
Workers' compensation	Simply Business	COI issued per project on request

Current certificates of insurance are attached behind this page or provided on request.

PROJECT REFERENCES

Available on request.

Project	Location	Scope	Year

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Test Reports

Source: Testing laboratory

INSERT BEHIND THIS TAB

- ASTM E2486 impact resistance test report for the Ultra-Guard assembly (when available)
- Other system test reports, if required by the project

Manufacturer _____

Product name _____

Data sheet date / rev. _____