

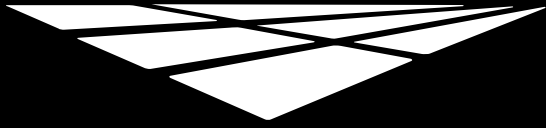
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# **ALX™ PRO WATERPROOFING UNDERLAYMENT**



**WATERPROOF**

RELIABLE MOISTURE BARRIERS



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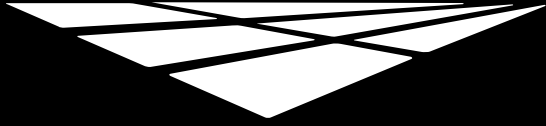
# **ALX PRO WATERPROOFING UNDERLAYMENT SUBMITTAL PACKAGE**

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION  
SECTION 07 18 13 PEDESTRIAN TRAFFIC COATINGS  
PLYWOOD SURFACES**

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# **SYSTEM BROCHURE**



ER 587



## **ABOUT ALX**

Experience unmatched strength, durability, and design with ALX™, Westcoat’s waterproof deck coating system. Formulated for plywood surfaces, the ALX system integrates acrylic resins and cement blends into a reinforced, galvanized metal lath. Transform an interior wood subfloor to a decorative concrete or epoxy finish with ALX Underlayment system - a blank slate for installing tile, epoxy or other decorative flooring options.



## **REBUFFS RAIN, SNOW + SPILLS.**

- Extensive Testing and Certifications
- Provides Early Protection After Framing
- Low Maintenance
- Unlimited Decorative Options
- Cost Effective
- Exterior or Interior
- Solar Reflective Option is CRRC approved.



**FOR PROFESSIONAL USE ONLY.**



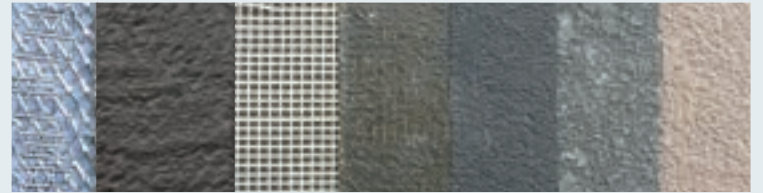


**IAPMO ER-587 • Class A and One Hour Fire Rated • City of LA Approval  
Meets Wildland Urban Interface (W.U.I) Requirements**

### THE SYSTEM

Westcoat ALX is a waterproof walking deck system that is reinforced with metal lath and installed with a series of three separate polymer-modified cementitious applications and sealed with Westcoat's SC-10 Acrylic Topcoat or clear sealer. The finished system weighs approximately 2½ lbs per square foot and is less than a 1/4" thick. ALX gives plywood the look and feel of concrete with a decorative appeal. This system can be installed with a custom finish for exterior or interior. Go ALX Pro with an added layer of fiberlath reinforced membrane.

#### ALX PRO Standard Finish

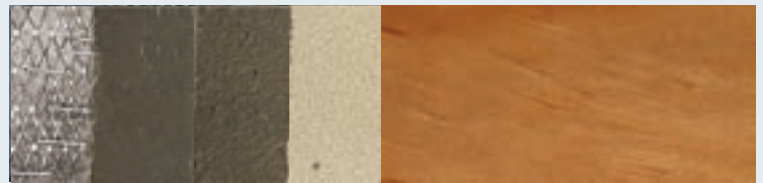


Sheet Membrane w/ Metal Lath    Base Coat    Fiberlath w/ Resin Membrane    Slurry Coat    Texture Coat    Topcoat

### INTERIOR

ALX Interior transforms a plywood subfloor into a concrete-like finish. Finish this system with a smooth decorative coating such as a microtopping or epoxy flooring system.

#### ALX Interior

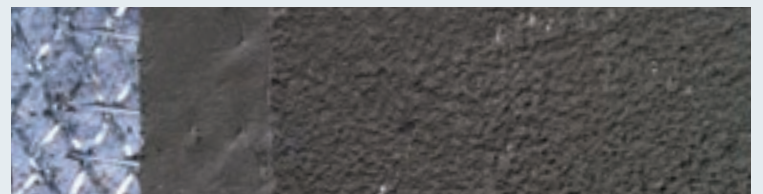


Sheet Membrane w/ Metal Lath    Base Coat    2nd Base Coat    Slurry Coat    Custom Finish (Shown Here with Liquid Dazzle)

### WATERPROOFING UNDERLAYMENT

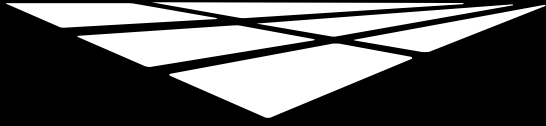
This process is for waterproofing plywood decks to receive tile, stone, or concrete as the finished look. Protect your plywood right after framing and allow for other trades to "traffic" during the construction process.

#### ALX UNDERLAYMENT



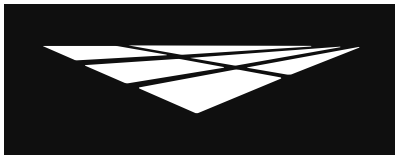
Sheet Membrane w/ Metal Lath    Base Coat    Slurry Coat





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# **SYSTEM SPECIFICATION SHEET**



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**SYSTEM SPECIFICATION**

**WP**

**WATERPROOF**  
RELIABLE MOISTURE BARRIERS

**ALX™ Pro**

**Waterproofing Underlayment**

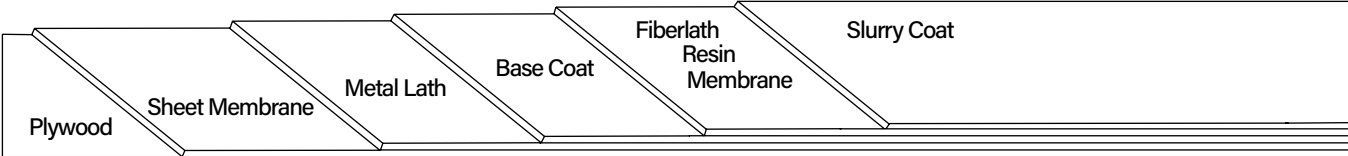
**Description**

ALX™ Pro Waterproofing Underlayment is a process for waterproofing plywood decks to receive tile, stone or concrete. This bonded system is reinforced with metal lath, a fiberlath reinforced membrane and a series of polymer-modified cementitious applications. The ALX™ Pro Waterproofing Underlayment incorporates WP-40 Sheet Membrane under the lath as a back up waterproof membrane and reinforcement for plywood seams.

**Uses**

The ALX™ Pro Waterproofing Underlayment system works only on plywood walking decks to receive tile, stone and can be used as an under slab method to receive concrete. It is recommended for the discriminating architect, contractor or building owner that demands the greatest in strength and durability. ALX™ Pro Waterproofing Underlayment is ideal for decks with ten foot or larger spans and in cases where additional crack resistance and flexibility is essential. ALX™ Pro Waterproofing Underlayment has been designed for balconies, corridors and landings. It is regularly specified for hotels, condominiums, apartments and office buildings.

**System Overview**



System Data			
<b>Coverages</b>	<b>Base Coat</b> 40 ft <sup>2</sup> per batch	<b>Fiberlath Resin Membrane</b> 250 ft <sup>2</sup> per batch	<b>Slurry Coat</b> 100-150 ft <sup>2</sup> per batch
<b>Components</b>	<a href="#">WP-10 Staples</a> <a href="#">WP-25 Metal Lath</a> <a href="#">WP-40 Sheet Membrane</a> <a href="#">WP-47H Fiberlath Heavy Duty</a> <a href="#">WP-51 Polyurethane Sealant</a> <a href="#">WP-81 Cement Modifier</a> <a href="#">WP-90 Waterproofing Resin</a> <a href="#">TC-1 Basecoat Cement</a>	<b>Shelf Life</b> N/A N/A 1 year 5 years 1-2 years 2 years 2 years 1 year	<b>ER-587</b> 
<b>Certifications</b>	IAPMO ER-587		

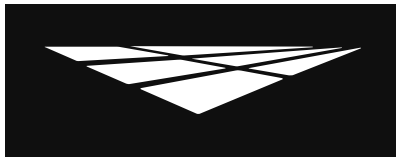
DISCLAIMER: PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.



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**SYSTEM  
SPECIFICATION**

**WP**

**WATERPROOF**  
RELIABLE MOISTURE BARRIERS

**ALX™ Pro**

**Waterproofing  
Underlayment**

### **Advantages**

Quick Access After Installation • Waterproof • Excellent Sound Reduction Qualities • Covers Rough Plywood and Seams • Unmatched Strength and Durability • Fiberlath Reinforced Membrane • Cost Effective • Available Manufacturer's Warranty

### **Inspection**

Plywood must be a minimum of 1 inch thick or 2 sheets of at least 5/8 inch CDX or exterior grade plywood. For applications over pressure-treated lumber, please contact your Westcoat Representative prior to application. The deck should be tongue and groove when possible, properly blocked and nailed (glued and screwed is best). Add blocking between studs at wall to allow WP-40 to cove up wall behind flashing.

Plywood shall have a maximum joist span of 12 inches. In general, deflection shall be minimized, as movement will crack tile and concrete. Slope must be a minimum of 1/4 inch per linear foot. The decks should meet local building codes. Deflection should be less than L/480. OSB is not recognized as a suitable substrate. Moisture vapor commonly collects in areas below a vapor barrier, such as the waterproofing membrane of the deck covering system. Venting must be added to help relieve moisture vapor transmission. Please refer to all local building codes regarding venting requirements.

### **Preparation**

Be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion. "Dry" plywood is typically defined as having less than a 10% moisture reading or by showing no moisture with a plastic sheeting test. Applicator is responsible for ensuring that the substrate is acceptable for application. Do not apply to wet plywood.

### **Sheet Membrane**

WP-40 Sheet Membrane is required on the entire deck for maximum protection. WP-40 may also be installed behind or on top of the flashing as a backup waterproofing measure. WP-40 may not be left exposed to the sun for more than seven days. See Sheet Membrane Product Specification Sheet.

### **Flashing**

Westcoat requires a minimum of 26-gauge bonderized sheet metal. Use 4 x 4 inch 'L' flashing at the junction of the wall and deck. Use 2 x 4 inch drip edge flashing for fascia edge. Overlap all ends at least four inches. Apply two beads of WP-51 Polyurethane Sealant or WP-53 Hybrid Sealant to all seams. Nail flashing every 4-6 inches. (Note: If the flashing is not bonderized, it must be prepared in accordance with SSPC-SP11 surface preparation standards, in order for the coating to adhere properly).

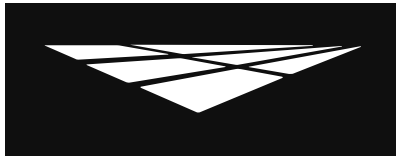
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SYSTEM  
SPECIFICATION

WP

WATERPROOF  
RELIABLE MOISTURE BARRIERS

ALX™ Pro

Waterproofing  
Underlayment

### Metal Lath

Place the WP-25 Metal Lath on the plywood and cut it to fit the area ensuring the edge of the lath is offset two inches from any parallel plywood seams. The lath should run across the grain of the plywood (across the long seams) when possible. The grain of the lath should be placed so that it curves down at the edge of the deck. The metal lath should be held back 2 inches from all deck edges, leaving 2 inches of flashing exposed. With the lath in place, start in the center working your way out. Staple the lath using 16-20 staples per square foot (minimum 1 inch crown x 5/8 inch long, 16-gauge non-corrosive Senco P10). Overlap the lath 1-2 inches and staple every 1-2 inches along the seam. With a hammer, lightly pound down any seams or staples that are higher than the lath.

### Base Coat

Pour 1¼ gallons of WP-81 Cement Modifier and desired water (up to one quart) into a clean mixing bucket and then add one bag of TC-1 Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Pour the mixture (4½ gallons total) onto the metal lath and with trowel on edge, smooth the mixture to the top of the lath at the rate of 40 square feet per batch. Trowel and brush the base coat up to the metal lath edge, leaving 2 inches of flashing exposed. For best results, tape off the flashing. Use a paintbrush to spread the base coat into all corners. Tap the deck lightly with a hammer to help in smoothing out trowel ridges. As soon as it is dry, usually 1 to 2 hours at 70 degrees, scrape off any high spots or ridges, before applying the Fiberlath Resin Membrane.

### Fiberlath Resin Membrane

Lay out WP-47 Fiberlath reinforcing mesh on the deck, overlapping the seams approximately 2 inches. The Fiberlath should be held back ½ inch from all deck edges, leaving ½ inch of flashing exposed. Combine one bag of TC-1 Basecoat Coat Cement with five gallons of WP-90 Waterproofing Resin. Mix with a mechanical mixer until uniform. Pour the mixture into the WP-47, trowel thin and smooth at the coverage rate of approximately 250 square feet per batch, stopping at the Fiberlath edge, leaving ½ inch of flashing exposed. For best results, tape off flashing. Use a paintbrush to spread the base coat ensuring the mixture covers all seams and corners. Allow surface to dry for 1-4 hours at 70 degrees. Scrape off any high spots or ridges prior to application of the Slurry Coat. Trim any mesh that is showing on perimeters after the material has hardened.

### Slurry Coat

Create the slurry coat by adding one gallon of WP-81 Cement Modifier and up to ½ gallon of water into a clean mixing bucket and add one bag of TC-1 Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Trowel the slurry mix over the surface to achieve a smooth finish. Coverage of the slurry coat is between 100-150 square feet per batch. The Slurry Coat will be applied right up to all of the deck's edges. Use a paintbrush to spread the slurry coat onto the flashing, ensuring the mixture coats all corners. Using a brush wet with water, feather all outside edges. After surface is dry (usually 30 minutes to 2 hours at 70 degrees), scrape or grind off any ridges or trowel marks.

### Flood Test

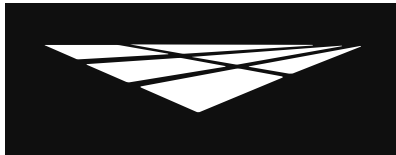
Perform flood test with a minimum of 1 inch and a maximum of 3 inches of water for 24 hours. Drains should be plugged and barriers placed to contain the water.

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SYSTEM  
SPECIFICATION

WP

WATERPROOF  
RELIABLE MOISTURE BARRIERS

ALX™ Pro

Waterproofing  
Underlayment

### Optional Materials

#### Sheet Membrane

- WP-43 Sheet Membrane Primer may be used when increased adhesion is desired.

#### Cement Additives

- CA-15 Cement Accelerator can be added to Westcoat cements to help reduce dry times.
- CA-16 Cement Decelerator can be added to Westcoat cements to increase working time during periods of hot weather.

#### Additional Waterproofing

- WP Wrap can be used as a supplemental waterproofing system used to provide additional waterproofing with reinforcement, along the perimeter of decks, over flashing and other challenging areas.

#### Sloping

- Westcoat Slope Technique may be used if additional sloping is required. Slope Technique should be applied after the Base Coat and prior to the Fiberlath Resin Membrane.

\* Please refer to Product and System Specification Sheets for additional information.

### Clean Up

Uncured material can be removed with soap and warm water. If cured, material can be removed mechanically or with an environmentally-safe solvent.

### Health Precautions

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Cements contain silicas; dust mask or respirator should be used when mixing, sanding or grinding.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

### Limitations

- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Do not apply at temperatures below 50°F or above 90°F.
- Rain will wash away uncured Westcoat acrylic products.
- If inclement weather threatens, cover deck to protect new application.
- Do not allow Westcoat products to freeze.
- Moisture vapor commonly collects in areas below a vapor barrier, such as the waterproofing membrane of the deck covering system. Venting must be added to help relieve moisture vapor transmission. Please refer to all local building codes regarding venting requirements.

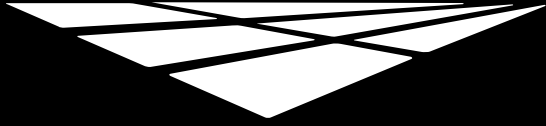
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# **CSI SPECIFICATION**



**DIVISION 7 – THERMAL AND MOISTURE PROTECTION  
07 16 13 POLYMER MODIFIED CEMENT WATERPROOFING  
PLYWOOD SURFACE(S)**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section includes: Provide a complete acrylic modified cementitious waterproof system for plywood surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.

**1.02 RELATED SECTIONS**

- A. Section 030000 – Concrete
- B. Section 050000 – Metals
- C. Section 060000 – Wood, Plastic, and Composites
- D. Section 071313 - Bituminous Sheet Waterproofing
- D. Section 080000 – Openings
- E. Section 090000 – Finishes
- F. Section 220000 – Plumbing

**1.03 REFERENCES**

- A. IAPMO – ER-587
- B. California Building Code (2019 CBC) & Residential Code (2019 CRC)
- C. City of Los Angeles Building Code (2020 LABC) & Residential Code (2020 LARC)
- D. Class I Vapor Retarder (ASTM E96)

**1.04 SUBMITTALS**

- A. Submit under provisions of Section 013300.
- B. Product Data: Submit manufacturer's product data sheets on each product and system to be used including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements.
  - 3. Installation methods.
  - 4. Maintenance requirements.
- C. Selection Samples: For each system specified, provide two sets of samples and color charts representing manufacturer's full range of colors and patterns.

**1.05 QUALITY ASSURANCE**

- A. All materials used in the pedestrian traffic system shall be manufactured and provided by a single manufacturer to ensure compatibility and proper bonding.
- B. Use adequate numbers of skilled workmen thoroughly trained and experienced in the necessary crafts and completely familiar with the specified requirements and methods needed for proper performance of the work of this section.
- C. Contractor shall have a minimum of 3 years experience installing pedestrian traffic coatings of this type which is required for this project and who is acceptable to the manufacturer.
  - 1. Applicator shall designate a single individual as project foreman who shall be on site at all times during installation.

2. Contractor must show and have QCA Qualified Contractor/Applicator paperwork from the manufacturer of the coating system, as required to obtain a long-term jobsite specific warranty.
- D. Convene a pre-application meeting before the start of application of coating system. Require attendance of parties directly affecting work of this section, including: Architect, contractor, applicator, and authorized representative of the coating system manufacturer and interfacing trades. Review the following:
  1. Drawings and specifications affecting work of this section.
  2. Protection of adjacent surfaces.
  3. Surface preparation and substrate conditions.
  4. Application.
  5. Field quality control.
  6. Protection of coating system.
  7. Repair of coating system.
  8. Coordination with other work.

#### 1.06 DELIVERY, STORAGE & HANDLING

- A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, and lot number.
- B. Storage: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and Material Safety Data Sheets prior to use.

#### 1.07 PROJECT SITE CONDITIONS

- A. Maintain environmental conditions (temperature and weather) within the limits recommended by the manufacturer.
- B. Schedule coating work to avoid rain and excessive dust and airborne contaminants. Protect work areas from moisture and excessive airborne contaminants during coating application.
- C. Before any work is started, the applicator shall examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner or general contractor shall be notified in writing and any corrections necessary shall be made.

#### 1.08 WARRANTY

- A. Upon completion of the work in this section provide a written warranty from the manufacturer against defect of materials for a period of 5 (five) years. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

### **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Acceptable manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102, Telephone 800-250-4519. Fax 619-255-7187. Website: [www.westcoat.com](http://www.westcoat.com).

#### 2.02 MATERIALS

- A. As basis of design Westcoat ALX Pro Waterproofing Underlayment System (no substitutions will be accepted): Waterproofing system for plywood decks to receive tile, stone, or concrete. A metal lath reinforced system installed with a series of two separate polymer-modified cementitious applications. ALX Pro Waterproofing Underlayment incorporates WP-40 Sheet Membrane under the lath to create a waterproof membrane and provide reinforcement for plywood seams.

#### 2.03 COMPONENTS

- A. ALX Pro Waterproofing Underlayment System: Waterproof walking deck system for use over plywood substrates to receive tile, stone, or concrete, IAPMO ER-587
  - 1. Sheet Membrane: WP-40 Sheet Membrane 36 inch by 75 feet for complete plywood coverage.
  - 2. Metal Lath: WP-25 Metal Lath 2.5 pounds per square yard hot dipped galvanized.
  - 3. Staples: Minimum 1 inch crown by  $\frac{5}{8}$  inch long, 16 gauge non-corrosive Senco P10 or equal.
  - 4. Base Coat: Combine one 50 pound bag of TC-1 Base Coat Cement,  $1\frac{1}{4}$  gallons of WP-81 Cement Modifier, and up to 1 quart of water. Apply by trowel at 40 square feet per batch.
  - 5. Fiberlath Resin Membrane: WP-47 Fiberlath applied over the entire deck. Combine one bag of TC-1 Basecoat Coat Cement with five gallons of WP-90 Waterproofing Resin. Pour the mixture into the WP- 47, trowel thin and smooth at the coverage rate of approximately 250 square feet per batch
  - 6. Slurry Coat: Combine one 50 pound bag of TC-1 Base Coat Cement, 1 gallon of WP-81 Cement Modifier, and up to  $\frac{1}{2}$  gallon of water. Apply by trowel at 100-150 square feet per batch.

## 2.04 ACCESSORIES

- A. Supplemental Materials:
  - 1. Flashing shall be minimum 26 gauge bonderized sheet metal. 6 inch by 4 inch at wall to deck juncture and 2 inch by 4 inch drip edge at outside perimeter of deck.
  - 2. Sealant shall be Westcoat WP-51 Polyurethane Sealant.
  - 3. Westcoat Slope Technique may be used when additional sloping is required. Slope Technique should be applied after the Base Coat, prior to the Slurry Coat.
  - 4. Westcoat WP Wrap can be used to provide additional waterproofing with reinforcement, along the perimeter of decks, over flashing and other challenging areas.
  - 5. WP-43 Sheet Membrane Primer may be used increased adhesion of the WP-40 Sheet Membrane is required.
  - 6. WP-82 Cement Modifier Low Odor can be used in lieu of WP-81, when a lower odor option is required.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verification of conditions.
  - 1. Inspect all surfaces to receive the pedestrian traffic system. Verify that surfaces are dry, clean, and free of contaminates that would prevent coating system from properly adhering to the surface.
  - 2. Verify that substrates have  $\frac{1}{4}$  inch slope per linear foot.
  - 3. Before starting work, report in writing to the owner any unsatisfactory conditions.

### 3.02 SURFACE PREPARATION

- A. General:
  - 1. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Plywood substrate:
  - 1. Provide minimum 1 inch CDX exterior grade plywood.
  - 2. Plywood shall have a maximum joist span of 12 inches.
  - 3. Deflection should be less than L/480 for under tile applications.

### 3.03 INSTALLATION

- A. Install coatings in accordance with manufacturer's instructions.
- B. Mix all materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.

- D. Uniformly apply coatings at spread rates and in number of coats to achieve specified coverage.
- E. Adhere to all limitations, instructions, and cautions for pedestrian coatings as stated in the manufacturer's published literature.

#### 3.04 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverages and finish of the system as work progresses.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems.
- D. Perform flood test with a minimum of 1 inch and a maximum of 3 inches of water for 24 hours. Drains shall be plugged and barriers placed to contain water.

#### 3.05 PROTECTION AND CLEAN-UP

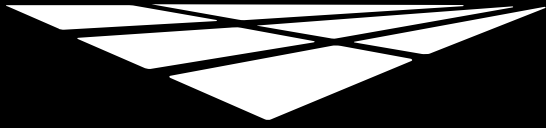
- A. Installation areas must be kept free from traffic and other trades during the application procedure and cure time.
- B. Protect finished surfaces of coating system from damage during construction.
- C. Touch-up, repair or replace damaged coating system after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.
- E. Allow material to cure 4 to 6 hours before light pedestrian traffic is permitted, 24 hours before heavy traffic and an additional 48 hours before heavy objects are placed on the surface.

#### 3.06 MAINTENANCE

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the waterproof decking system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

### END OF SECTION

*This guide specification has been prepared by Westcoat Specialty Coating Systems to assist design professionals in developing a project specific specification. This guide is a template that must be reviewed and adapted by specifiers to comply with project requirements. This guide specification is not to be copied directly into a project specification manual without review.*



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# **EVALUATION REPORT**





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**(800) 250-4519**  
[www.westcoat.com](http://www.westcoat.com)

**WESTCOAT ALX STANDARD, ALX CUSTOM, ALX PRO STANDARD, ALX PRO CUSTOM, AND MACOAT SYSTEMS**

**CSI Sections:**

- 07 18 13 Pedestrian Traffic Coatings
- 07 30 05 Roofing Felt and Underlayment

**1.0 RECOGNITION**

The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems recognized in this report have been evaluated for use as walking deck and roof covering systems. The durability, roof fire classification, fire-resistance-rating, and wind uplift resistance properties of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, 2015, 2012, and 2009 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, and 2009 International Residential Code® (IRC)
- 2022 California Building Code (CBC) – attached Supplement
- 2022 California Residential Code (CRC) – attached Supplement
- 2023 City of Los Angeles Building Code (LABC) – attached Supplement
- 2023 City of Los Angeles Residential Code (LARC) – attached Supplement

**2.0 LIMITATIONS**

Use of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems recognized in this report is subject to the following limitations:

**2.1** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems shall be manufactured, identified, and installed in accordance with this report and the applicable code. In case of a conflict, the more restrictive governs.

**2.2** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems shall be

installed on slopes not less than ¼-inch per foot (2-percent slope).

**2.3** The supporting structure shall be designed to support the loads and is outside the purview of this report.

**2.4** Connection of deck perimeter flashing to substrates shall be designed to meet all applicable code requirements.

**2.5** The use of the MACoat System over plywood for fire-resistance ratings is outside the purview of this report.

**2.6** Installation of WP-40 Sheet Membrane, when used as an ice barrier, is limited to roof slopes of 2:12 (16.67 percent) and greater. When used as a component of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom Systems, the slope shall comply with Sections 2.2 and 3.2 of this report.

**2.7** Installation of the WP-40 Sheet Membrane with roof coverings shall be mechanically fastened through the underlayments to the sheathing or rafters, and when used as a component of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom Systems as described in this report.

**2.8** Installation of the WP-40 Sheet Membrane is limited to roof with attics or rafter spaces that are ventilated and comply with the requirements of the applicable code.

**2.9** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems are manufactured in San Diego, CA.

**3.0 PRODUCT USE**

**3.1 General:** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom Systems recognized in this report are cementitious walking deck and roof covering systems used directly over plywood and the MACoat System is used directly over concrete substrates.

**3.1.1** The WP-40 Sheet Membrane is a self-adhering reinforced modified bituminous membrane used as an alternative to an ice barrier as required in Chapter 15 of the IBC or Chapter 9 of the IRC. The WP-40 Sheet Membrane, when used with the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom systems, complies with the requirements of Acceptance Criteria for Self-Adhered Roof Underlayments for Use as an Ice Barrier (AC48) and Acceptance Criteria for Roof Underlayments (AC188).

**3.2 Fire Classification Roof Assemblies:** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems are components of Class A roof assemblies when installed in accordance with this report at a minimum slope of ¼ :12 (2-percent slope).

*The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.*







### 3.3 One-hour Fire-resistance-rated Floor(Roof)/Ceiling Assemblies:

**3.3.1 ALX Standard and Custom Systems:** The Westcoat ALX Standard and ALX Custom Systems, when installed in accordance with Section 3.5 of this report over minimum  $\frac{5}{8}$ -inch-thick exterior-grade plywood, with nominal 2-by-8 solid sawn lumber joists spaced at 16 inches on center maximum with all plywood joints blocked, may be used in place of the double wood floor described in Construction 13 of 2021, 2018, 2015, and 2012 IBC Table 721.1(3) [2009 IBC Table 720.1(3)]. Ceiling construction shall comply with Item Numbers 13-1.1 to 13-1.4 of 2021, 2018, 2015, and 2012 IBC Table 721.1(3) [2009 IBC Table 720.1(3)].

**3.3.2 ALX Pro Standard and Pro Custom Systems:** The Westcoat ALX Pro Standard and Pro Custom systems, when installed in accordance with Section 3.5 of this report over minimum  $\frac{5}{8}$ -inch-thick exterior-grade plywood, with nominal 2-by-10 solid sawn lumber joists spaced at 16 inches on center maximum with all plywood joints blocked, may be used in place of the double wood floor described in Construction 13 of 2021, 2018, 2015, and 2012 IBC Table 721.1(3) [2009 IBC Table 720.1(3)]. Ceiling construction shall comply with Item Numbers 13-1.1 to 13-1.4 of 2021, 2018, 2015, and 2012 IBC Table 721.1(3) [2009 IBC Table 720.1(3)].

**3.4 Wind Resistance:** Installation to plywood is limited on structures with a maximum height of 40 feet, for use in Exposure B areas subject to the following:

- a) A basic wind speed of 130 miles per hour under the 2021 IBC and 2018 IBC.
- b) A maximum design wind speed of 130 miles per hour under the 2021 IRC, 2018 IRC, 2015 IBC, 2015 IRC, and 2012 IBC.
- c) A maximum of 100 miles per hour nominal design 3-second-gust basic wind speed under the 2009 IBC and 2012 and 2009 IRC.

The maximum allowable wind loads are limited by the capacity of the deck construction. The decking shall be designed to withstand wind pressures in accordance with Section 1609.5.1 of the IBC or Section R301.2.1 of the IRC.

### 3.5 Installation:

#### 3.5.1 Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom:

**a) General:** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom walking deck and roof covering systems shall be installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. In case of a conflict, the more restrictive governs.

The system shall be applied where an ambient and surface temperature range of 50°F to 90°F is available for 24 hours. Materials shall not be applied when subject to wet weather. Substrates and all coating surfaces shall be structurally sound, clean, and dry. The minimum finished deck slope shall be  $\frac{1}{4}$  inch per 1 foot (2-percent slope). Additional installation details are shown in Table 1 of this report.

**b) Plywood Substrates:** Plywood substrates shall comply with Section 4.1.2 (k) of this report. All edges shall be blocked. Face plies shall be perpendicular to the supports. The plywood shall be attached to all blocking and end bearing framing with wood screws, screw- or ring-shank nails equivalent to 8d common nails. The plywood shall be installed at a maximum span of 16 inches on center. The plywood shall be dry, clean, and free of any foreign material such as oil, dust, grease, or paint.

**c) WP-40 Sheet Membrane:** The WP-40 Sheet Membrane complying with Section 4.1.2 (l) of this report shall be applied over all plywood joints in 6-inch-wide strips or may be applied over the entire deck with the sheet membrane roll measuring 36 inches by 75 feet.

**d) Metal Lath:** The WP-25 Metal Lath complying with Section 4.1.2 (i) of this report is applied perpendicular to plywood sheets. Metal lath shall be installed over metal flashing, stopping at least  $\frac{1}{2}$ -inch from all deck edges or vertical juncture. The lath seams shall be staggered a minimum of 2 inches from any parallel plywood joints. Lath shall be lapped 1 to 2 inches at seams and stapled to the plywood every 1 to 2 inches. A minimum of 16 WP-10 Staples, complying with Section 4.1.2 (j) of this report, per square foot, are required to attach the lath to the plywood substrate.

**e) Base Coat:** The base coat mixture consists of one 50-pound bag of TC-1 Basecoat Cement complying with Section 4.1.2 (a), combined with  $1\frac{1}{4}$  gallons of WP-81 Cement Modifier and up to 1 quart of water. This mixture yields a total of  $4\frac{1}{2}$  gallons and shall be troweled over the horizontal metal lath surface at a rate of 40 ft<sup>2</sup> per mix, to a minimum 0.142 inch thickness. Prior to the application of the slurry coat, the base coat shall be allowed to cure firm.

**f) Slurry Coat:** The slurry coat is prepared by mixing one bag of TC-1 Basecoat Cement complying with Section 4.1.2 (a) of this report, 1 gallon of WP-81 Cement Modifier, and up to  $\frac{1}{2}$  gallon of water. The mixture shall be troweled over the cured base coat at a rate of 100 to 150 ft<sup>2</sup> per mix, to a minimum of 0.063 inch thickness, and allowed to cure.

**3.5.2 ALX Pro Standard and ALX Pro Custom Systems:** As an option, to transition from ALX Standard and ALX Custom Systems to ALX Pro Standard and ALX Pro Custom Systems, the WP-47H lath shall be installed over the base coat described in Section 3.5.1 (e) and lapped over the seams at a minimum of 2 inches. The mix is prepared with 5 gallons





of WP-90 Waterproofing Resin and one bag of TC-1 Basecoat Cement complying with Section 4.1.2 (a) of this report. This mixture shall be troweled over the WP-47H at a rate of 225 to 250 ft<sup>2</sup> per mix. Use a brush to spread the mix on the flashing and into seams and corners. Allow the surface to dry for 1-4 hours at 70°F. Scrape off any high spots or ridges that may inhibit the application of a smooth texture coat. Trim any WP-47H that is showing on perimeters after the material has hardened.

### 3.5.3 ALX Standard and ALX Pro Standard Systems (Following installation in accordance with Section 3.5 of this report):

**a) Texture Coat:** The texture coat is prepared by mixing one bag of either TC-1 Basecoat Cement complying with Section 4.1.2 (a), TC-2 Smooth Texture Cement complying with Section 4.1.2 (b), TC-3 Medium Texture Cement complying with Section 4.1.2 (c), or TC-5 Grout Texture Cement complying with Section 4.1.2 (d) of this report with 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. The texture coat can be troweled, sprayed, or broomed over the slurry coat at a rate of 150 to 200 ft<sup>2</sup> per mix, to a minimum 0.047 inch thickness over the slurry coat and be allowed to fully cure.

**b) Topcoat:** The SC-10 acrylic topcoat shall be applied over the texture coat to a minimum thickness of 6 mils dry, using a roller in a maximum of two applications at a rate of 125 ft<sup>2</sup>/gal total, or 200-300 ft<sup>2</sup>/gal per coat and be allowed to fully cure.

### 3.5.4 ALX Custom, ALX Pro Custom, and MACoat Custom Systems: The following coating applications apply only to ALX Custom, ALX Pro Custom, and MACoat Custom Systems and shall comply with Section 3.5 of this report:

**a) Grout Coat:** The grout coat is prepared by mixing one bag of TC-5 Medium Texture Cement complying with Section 4.1.2 (d) of this report with 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. The grout coat shall be troweled over the slurry coat at a rate of 100 to 150 ft<sup>2</sup> per mix, to a minimum 0.047-inch dry thickness over the slurry coat, and be allowed to fully cure before the application of the texture coat.

**b) Texture Coat:** The texture coat is prepared by mixing one bag of TC-2 Smooth Texture Cement complying with Section 4.1.2 (b) or TC-5 Medium Texture Cement complying with Section 4.1.2 (d) of this report, with 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. The TC-40 Liquid Colorant may be added to a maximum of 4 ounces until the color is consistent. The texture coat shall be troweled, sprayed, or broomed over the grout coat at a rate of 150 to 200 ft<sup>2</sup> per mix, to a minimum 0.047-inch dry thickness over the grout coat, and be allowed to fully cure before the application of the stain.

**c) SC-35 Water-Based Stain:** The stain shall be applied at a rate of 200 to 400 ft<sup>2</sup>/gal using a pump sprayer, airless sprayer, HVLP sprayer, brush, or broom over the texture coat. The stain shall be allowed to fully dry before the application of the sealer.

**d) SC-70 Acrylic Lacquer Sealer:** The sealer shall be applied at a rate of 200 to 300 ft<sup>2</sup>/gal using a sprayer, brush, or roller over the stain. The sealer shall be allowed to fully dry.

### 3.5.5 MACoat System™:

**a) General:** The MACoat System™ walking deck and roof covering systems shall be installed in accordance with the manufacturer's published installation instructions, the applicable code, and this report. In the event of a conflict, the more restrictive governs.

The system shall be applied where an ambient and surface temperature range of 50°F to 90°F is available for 24 hours. Materials shall not be applied when subject to wet weather. Substrates and all coating surfaces shall be structurally sound, clean, and dry. The minimum finished deck slope shall be ¼:12 (2-percent slope). Additional installation details are shown in Table 2 of this report.

**b) Concrete Substrates:** Concrete substrates shall comply with Section 4.2.2 (h) of this report. Concrete surfaces shall be prepared to a profile equal to CSP 3 as specified by the International Concrete Repair Institute (ICRI). Concrete cracks greater than 1/32-inch width shall be routed out in a ¼-in by ¼-in, and WP-47A Seam Tape described in Section 4.2.2 (b) of this report shall be installed over all cracks and seams. EC-72 Epoxy Patch Gel shall be applied over the WP-47A tape and troweled with silica sand for adhesion of the coating. Concrete control joints shall comply with local building codes and comply with industry standards.

**c) WP-47H FiberLath:** The WP-47H complying with Section 4.2.2 (a) of this report is applied perpendicular to the deck, overlapping the seams at least 2 inches.

**d) Base Coat:** The Base Coat is prepared by mixing one bag of TC-1 Base Coat Cement with 5 gallons of WP-90 Waterproofing Resin complying with Section 4.2.2 (c) of this report. The mixture shall be troweled over the horizontal WP-47H Fiberlath Heavy Duty at a rate of 220 to 260 ft<sup>2</sup> per mix, to a minimum 0.057 inch thickness over concrete and lath, and all metal and concrete shall be completely covered, and surfaces shall be flat.

**e) Slurry Coat:** The slurry coat is prepared by mixing one bag of TC-1 Base Coat Cement with 5 gallons of WP-90 Waterproofing Resin complying with Section 4.2.2 (d) of this report. The mixture shall be troweled over the cured base coat





surface at a rate of 250 to 320 ft<sup>2</sup> per mix, to a minimum of 0.072 inch thickness over the base coat, and be allowed to cure.

**f) Texture Coat:** For a custom finish option, please refer to Section 3.5.4 of this report. An optional Texture Coat is prepared by mixing 1 quart of water with 5 gallons of WP-90 Waterproofing Resin and one bag of TC-1 Base Coat Cement complying with Section 4.2.2 (c) of this report. The texture coat shall be troweled over and applied over the slurry coat at a rate of 300 to 350 ft<sup>2</sup> per mix, to a minimum 0.035 inch dry thickness over the slurry coat, and be allowed to fully cure before the application of the topcoat.

**g) Topcoat:** The SC-10 acrylic topcoat shall be applied over the texture coat to a minimum thickness of 6 mils dry, using a roller in a maximum of two applications at a rate of 125 ft<sup>2</sup>/gal total, or 200-300 ft<sup>2</sup>/gal per coat and be allowed to fully cure.

## 4.0 PRODUCT DESCRIPTION

### 4.1 Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom Systems

**4.1.1 General:** Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom Systems is a cementitious multi-layer protective coating system for use over plywood. The system consists of reinforcing metal lath, cementitious filler, waterproofing sheet membrane, and acrylic sealer.

#### 4.1.2 Components:

**a) TC-1 Basecoat Cement:** The TC-1 is a portland cement mixture, dry-blended with silica sand and proprietary additives. TC-1 has a maximum shelf life of 1 year when stored in unopened 50-lb bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 90°F.

**b) TC-2 Smooth Texture Cement:** The TC-2 is a portland cement mixture, dry-blended with silica sand and proprietary additives. TC-2 has a maximum shelf life of 1 year when stored in unopened 50-lb bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 90°F.

**c) TC-3 Medium Texture Cement:** The TC-3 is a portland cement mixture, dry-blended with silica sand and proprietary additives. TC-3 has a maximum shelf life of 1 year when stored in unopened 50-lb bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 90°F.

**d) TC-5 Grout Texture Cement:** The TC-5 is a portland cement mixture, dry-blended with silica sand and proprietary additives. TC-5 has a maximum shelf life of 1 year when stored in unopened 50-lb bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 90°F.

**e) TC-40 Liquid Colorant (Use with ALX Custom):** The TC-40 is a water-based slurry, formulated with high pigment levels used to tint the TC-2 basecoat product described in Section 4.1.2 (b) of this report. TC-40 has a maximum shelf life of 1 year when stored in unopened 10-ounce bottles in dry locations out of direct sunlight at temperatures ranging from 50°F to 75°F.

**f) SC-10 Acrylic Topcoat (Use with ALX Standard):** The SC-10 is an acrylic water-based coating used as a topcoat. SC-10 has a shelf life of 2 years in unopened 1- or 5-gallon pails stored at temperatures ranging from 40°F to 100°F.

**g) SC-35 Water-Based Stain(Use with ALX Custom):** The SC-35 is an acrylic water-based color stain when applied to TC-2 Smooth Texture Cement described in Section 4.1.2 (b). SC-35 has a shelf life of 3 years when stored in unopened 1- or 5-gallon pails in dry locations.

**h) SC-70 Acrylic Lacquer Sealer (Use with ALX Custom):** The SC-70 is an acrylic lacquer sealer. SC-70 has a maximum shelf life of 5 years when stored in unopened 1- or 5-gallon pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

**i) WP-25 Metal Lath:** The metal lath shall be 2.5 pounds per square yard, in accordance with ASTM C847. The lath is delivered in rolls measuring 27 inches wide by 97 inches long.

**j) WP-10 Staples:** The staples shall comply with ASTM F1667 and shall have a minimum 5/8 inch long leg, a minimum 1-inch crown, and be formed from hot-dip galvanized, minimum No. 16 gauge.

**k) Plywood:** Plywood, with an exterior bond classification, conforming to DOC PS-1 or DOC PS-2, shall be a minimum 5/8-inch thick.

**l) WP-40 Sheet Membrane:** The WP-40 Sheet Membrane consists of a self-adhering reinforced modified bituminous membrane with a white-colored reflective topping applied to the top surface. The membrane is nominally 40-mil-thick (0.040 inch) and produced in rolls that are 6-, 12-, and 36-inches wide by 75 feet long.

**m) WP-81 Cement Modifier:** The WP-81 is an acrylic liquid modifier used with TC-1, TC-2, TC-3, and TC-5 described in Sections 4.1.2 items (a) through (d) of this report. WP-81 has a maximum shelf life of 2 years when stored in unopened 1- or 5-gallon pails in dry locations at temperatures ranging from 40°F to 100°F.

**n) Permeability:** The ALX and ALX Pro (Standard and Custom) Systems with full coverage of WP-40 Sheet Membrane, have a water vapor permeance rating of 0.1 perm





or less when tested in accordance with ASTM E96 Procedure A (Desiccant Method) at 73.4°F and 50 percent relative humidity.

#### 4.1.3 ALX Pro Standard and ALX Pro Custom Systems:

The ALX Pro Standard and ALX Pro Customs Systems shall use the following components in addition to the applicable items listed in Sections 4.1.2 (a) through (m) of this report:

**a) WP-47H Fiberlath:** The WP-47H is a fiberglass lath reinforcing mesh, nominal 0.020-inch thickness and nominal weight of 5.9 oz/yd<sup>2</sup>. The lath is produced in rolls that are 38 inches wide by 150 feet long. The WP-47H has a reinforcing mesh warp of 5.4 per inch and 6 per inch weft hurl leno weave.

**b) WP-90 Waterproofing Resin:** The WP-90 is an acrylic-polymer modified resin that can be used as an additive for TC-1 Basecoat Cement described in Section 4.1.2 (a) of this report. WP-90 has a maximum shelf life of 2 years when stored in unopened 1- or 5-gallon pails in dry locations at temperatures ranging from 40°F to 100°F.

**c) Permeability:** The ALX Pro Standard and ALX Pro Custom Systems have a water vapor permeance rating of 0.1 perm or less when tested in accordance with ASTM E96 Procedure A (Desiccant Method) at 73.4°F and 50 percent relative humidity.

#### 4.2 MACoat System™

**4.2.1 General:** MACoat™ System is a cementitious multi-layer protective coating system for use over concrete. The system consists of reinforcing metal lath, cementitious filler, waterproofing sheet membrane, and acrylic sealer.

##### 4.2.2 Components:

**a) WP-47H Fiberlath:** The WP-47H is a fiberglass lath reinforcing mesh, nominal 0.020-inch thickness and nominal weight of 5.9 oz/yd<sup>2</sup>. The lath is produced in rolls that are 38 inches wide by 150 feet long. The WP-47H has a reinforcing mesh warp of 5.4 per inch and 6 per inch weft hurl leno weave.

**b) WP-47A Seam Tape:** The WP-47A is a fiberlath tape that can be used to reinforce concrete cracks. The tape has a nominal 0.018-inch thickness and weight of 4.5 oz/yd<sup>2</sup>. The tape is produced in rolls that are 3 inches wide by 100 feet long.

**c) TC-1 Basecoat Cement:** The TC-1 is a portland cement mixture, dry-blended with silica sand and proprietary additives. TC-1 has a maximum shelf life of 1 year when stored in unopened 50-lb bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 90°F.

**d) WP-90 Waterproofing Resin:** The WP-90 is an acrylic-polymer modified resin that can be used as an additive for TC-1 Basecoat Cement. WP-90 has a maximum shelf life of 2 years when stored in unopened 1- or 5-gallon pails in dry locations at temperatures ranging from 40°F to 100°F.

**e) SC-10 Acrylic Topcoat:** The SC-10 is an acrylic water-based coating used as a topcoat. SC-10 has a shelf life of 2 years in unopened 1- or 5-gallon pails stored at temperatures ranging from 40°F to 100°F.

**f) WP-51 Polyurethane Sealant:** The WP-51 sealant is used along with bonderized flashing, for sealing all seams and overlaps. The shelf life is one year in a 10-ounce and two years in 20-ounce unopened cartridges, respectively, and stored at temperatures ranging from 40°F to 100°F.

**g) EC-72 Epoxy Patch Gel:** The EC-72 gel is a two-component epoxy patching compound. The shelf is two years in ½- or 2-gallon unopened kits and stored at temperatures ranging from 40°F to 100°F.

**h) Concrete:** Concrete shall comply with the IBC or IRC as normalweight, with a minimum specified compressive strength,  $f_c'$ , of 2,500 psi and be a minimum of 2-inches thick.

#### 5.0 IDENTIFICATION

Product packaging shall include the manufacturer's name (Westcoat), address, product name, shelf life, date of manufacture or batch/lot number, product name, and evaluation report number (ER-587). The product identification may also include either the IAPMO Uniform Evaluation Service Mark of Conformity (as shown below) or the IAPMO ER-587.



IAPMO UES ER-587

#### 6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ICC-ES AC39.

6.2 Data in accordance with the ICC-ES AC48.

6.3 Data in accordance with the ICC-ES AC188.

6.4 Reports of water vapor transmission testing in accordance with ASTM E96.

6.5 Test reports are from laboratories in compliance with ISO/IEC 17025.





# EVALUATION REPORT

Number: 587

Originally Issued: 03/29/2022

Revised: 10/15/2024

Valid Through: 03/31/2025

## 7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MACoat Systems to assess conformance to the codes shown in Section 1.0 of this report

and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.9 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)

TABLE 1: ALX SYSTEMS INSTALLATION DETAILS

SYSTEM	BASE COAT	INTERMEDIATE COAT	THIRD COAT	FOURTH COAT	FIFTH COAT	TOPCOAT
ALX STANDARD FINISH	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	TC-1, TC-2, TC-3, or TC-5 Cements applied at 100-150 sq.ft. per bag mixture.	-	-	SC-10 Acrylic Topcoat applied at a rate of 125 sq. ft. / gal.
ALX CUSTOM FINISH	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	TC-5 Medium Texture Cement applied at 200 sq. ft. per bag mixture.	TC-2 or TC-5 Cements applied at 100-150 sq.ft. per bag mixture.	SC-70 Acrylic Lacquer applied at a rate of 200-300 sq. ft. / gal.
ALX PRO STANDARD FINISH	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 225-250 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	TC-1, TC-2, TC-3 or TC-5 Cements applied at 100-150 sq.ft. per bag mixture.	-	SC-10 Acrylic Topcoat applied at a rate of 125 sq. ft. / gal.
ALX PRO CUSTOM FINISH	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 225-250 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	TC-5 Medium Texture Cement applied at 200 sq. ft. per bag mixture.	TC-2 or TC-5 Cements applied at 100-150 sq.ft. per bag mixture.	SC-70 Acrylic Lacquer applied at a rate of 200-300 sq. ft. / gal.
ALX WATERPROOFING UNDERLAYMENT	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	-	-	-	-
ALX PRO WATERPROOFING UNDERLAYMENT	TC-1 Basecoat Cement applied at 40 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 225-250 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 100-150 sq.ft. per bag mixture.	-	-	-

**Joist Span:** All systems require a maximum joist span of 16-inches, except the ALX Waterproofing Underlayment and ALX Pro Waterproofing Underlayment. These systems require a maximum joist span of 12-inches.

**Substrates:** All systems require a minimum 5/8-inch exterior grade plywood, except the ALX Waterproofing Underlayment and ALX Pro Waterproofing Underlayment. These systems require 1-inch exterior grade plywood.

**Deck Slope:** All systems require ¼ : 12

**Minimum Base Coat Thickness:** 9/64-inch for all systems.

**Sheet Membrane:** 6-inch WP-40 Sheet Membrane is a minimum requirement for all systems, except full coverage of the 36-inch WP-40 Sheet Membrane is required for the ALX Waterproofing Underlayment and ALX Pro Waterproofing Underlayment.

TABLE 2: MACOAT SYSTEM INSTALLATION DETAILS

SYSTEM	BASE COAT	INTERMEDIATE COAT	OPTIONAL THIRD COAT	TOPCOAT
MACOAT STANDARD	TC-1 Basecoat Cement applied at 220-260 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 250-320 sq.ft. per bag mixture.	TC-1 Basecoat Cement applied at 300-350 sq.ft. per bag mixture.	SC-10 Acrylic Topcoat applied at a rate of 125 sq. ft. / gal.

**Substrate:** All systems require 2,500 psi concrete that is at least 2-inches thick

**Deck Slope:** All systems require ¼:12

**Min Base Coat Thickness:** 0.057 inch



## CALIFORNIA SUPPLEMENT

### WESTCOAT

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San Diego, CA 92102

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[www.westcoat.com](http://www.westcoat.com)

### WESTOCOAT ALX STANDARD, ALX CUSTOM, ALX PRO STANDARD, ALX PRO CUSTOM, AND MACOAT SYSTEMS

#### CSI Sections:

07 18 13 Pedestrian Traffic Coatings

07 30 05 Roofing Felt and Underlayment

#### 1.0 RECOGNITION

Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom and MaCoat Systems recognized in ER-587 and in this report supplement have been evaluated for use as walking deck and roof covering systems. The durability, wind uplift resistance, roof fire classification, and fire-resistance-rating properties of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems comply with the intent of the provisions of the following codes and regulations:

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC)

#### 2.0 LIMITATIONS

Use of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom and MaCoat Systems recognized in this supplement are subject to the following limitations:

**2.1** For use under the 2022 CBC and CRC, the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom and MaCoat Systems shall comply with the provisions applicable to the 2021 IBC or 2021 IRC in ER-587.

**2.2** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems may be used as Class A roof covering systems in accordance with Sections 1505.2 of the CBC or R902.1 of the CRC.

**2.3** Only the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom Systems have been evaluated for use in buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area in accordance with Chapter 7A of the CBC or Section R337 of the CRC. The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom Systems comply with the requirements when tested in accordance with ASTM E2632 and ASTM E2726.

**2.4** This supplement expires concurrently with ER-587.

For additional information about this evaluation report please visit

[www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)





## CITY OF LOS ANGELES SUPPLEMENT

**WESTCOAT**  
4007 Lockridge Street  
San Diego, CA 92102  
(800) 250-4519  
[www.westcoat.com](http://www.westcoat.com)

### WESTCOAT ALX STANDARD, ALX CUSTOM, ALX PRO STANDARD, ALX PRO CUSTOM AND MACOAT SYSTEMS

**CSI Sections:**  
07 18 13 Pedestrian Traffic Coatings  
07 30 05 Roofing Felt and Underlayment

#### 1.0 RECOGNITION

Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems described in ER-587, the California Supplement to ER-587, and this supplemental report have been evaluated for use as walking deck and roof covering systems. The durability, wind uplift resistance, roof fire classification, and fire-resistance-rating properties of the Westcoat ALX Standard, ALX Custom, ALX Pro Standard, and ALX Pro Custom and MaCoat Systems comply with the intent of the provisions of the following codes and regulations:

- 2023 City of Los Angeles Building Code (LABC)
- 2023 City of Los Angeles Residential Code (LARC)

#### 2.0 LIMITATIONS

Use of The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems recognized in this supplement are subject to the following limitations in addition to the limitations in ER-587 and the California Supplement in ER-587:

**2.1** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems shall comply with the provisions in the California Supplement applicable to the 2022 CBC for use under the 2023 LABC.

**2.2** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems may be used as Class A roof covering systems in accordance with Sections 1505.2 of the 2023 LABC or R902.1 of the 2023 LARC.

**2.3** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems shall be installed on slopes not less than ¼ inch per foot (2-percent slope).

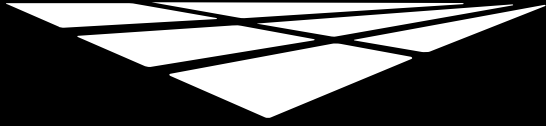
**2.4** The supporting structure shall be designed to support the loads and is outside the purview of this report.

**2.5** The Westcoat ALX Standard, ALX Custom, ALX Pro Standard, ALX Pro Custom, and MaCoat Systems shall comply with the LADBS Information Bulletin P/BC 2020-016 (Dwellings in High Wind Velocity Areas (HWA)).

**2.6** This supplement expires concurrently with ER-587.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)





**westcoat®**

# **SAMPLE WARRANTY**



**westcoat**<sup>®</sup>  
SPECIALTY COATING SYSTEMS

## WARRANTY

---

### WESTCOAT ALX PRO UNDERLAYMENT MATERIAL WARRANTY

Subject to the conditions, limitations and requirements set forth below, Westcoat warrants the Westcoat ALX materials to be free of defects in the material for a period of five (5) years from the date of original purchase of the materials provided that the materials are installed by a factory trained state-licensed contractor enrolled in the Westcoat QCA program and subject to all terms and conditions set forth below. Westcoat disclaims any warranty for the labor or installation of the ALX materials.

If the Westcoat ALX materials fail due to defects within the warranty period, Westcoat, in its sole discretion, will either provide replacement materials for the defective ALX materials or reimburse the original purchaser in an amount not to exceed the original cost of the materials. Westcoat shall in no way be responsible or liable for any labor costs or any incidental or consequential damages, including without limitation, economic losses, lost profits, business interruption, loss of use, contribution, indemnity or other losses arising from the use of the ALX materials.

This warranty is limited to the original purchases and is non-transferable. This warranty is void if the ALX materials are: applied to the top of OSB; not properly maintained; not installed pursuant to the current system information sheet; and/or applied at any area that is not built in accordance with applicable building codes. The warranty is also void if all of the materials are not purchased from an authorized distributor of Westcoat.

This warranty does not apply to and Westcoat has no responsibility or liability for: (1) the condition or movement of the substrate; (2) parts, products, or accessories not sold by Westcoat such as sheet metal flashings, scuppers and drains; (3) the application of its materials over an oriented strand board ("OSB") substrate; (4) abuse or misuse of the materials; or (5) improper installation.

THIS MATERIAL WARRANTY AND THE REMEDIES PROVIDED HEREUNDER ARE EXCLUSIVE AND GIVEN IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY). THERE ARE NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, THAT EXTEND BEYOND THAT SPECIFICALLY DESCRIBED HEREIN. PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURERS OF WESTCOAT, INCLUDING CLAIMS BASED UPON THE MANUFACTURER'S NEGLIGENCE OR STRICT LIABILITY, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE ALX MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL ALX MATERIAL.

A successful flood test is required for this warranty to be valid. Inspections are required one year after installation and every two years thereafter by a Westcoat QCA or an authorized inspector. The record of the inspection must be kept in writing and entitlement to the benefits of this warranty require the purchaser to show proof of purchase of the materials and the record of inspection(s).

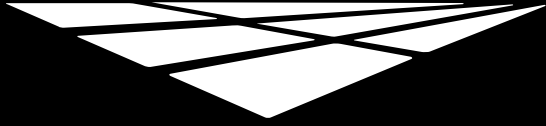
All claims arising from any defect in the ALX materials or under this Warranty shall be made, in writing, to Westcoat within ninety (90) days of the discovery of the alleged defect and within the time period of this warranty. Upon notification, Westcoat shall have the right to inspect and determine course of repair. The absence of a written claim within this time period shall constitute a waiver of all claims, rights and damages against Westcoat, and its affiliates. This warranty shall not toll or extend any statute of limitation applicable to a claim of negligence, breach of contract or strict liability against Westcoat.

Any and all disputes, claims or damages arising out of the use of ALX materials or this Warranty shall be arbitrated in the County of San Diego, State of California, utilizing the services of a neutral dispute resolution service upon which the purchaser and Westcoat agree, or if they cannot agree, utilizing the services of the American Arbitration Association. The purchaser and Westcoat hereby waive any right they may have to have a jury decide any dispute.



**westcoat**<sup>™</sup>

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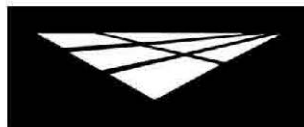
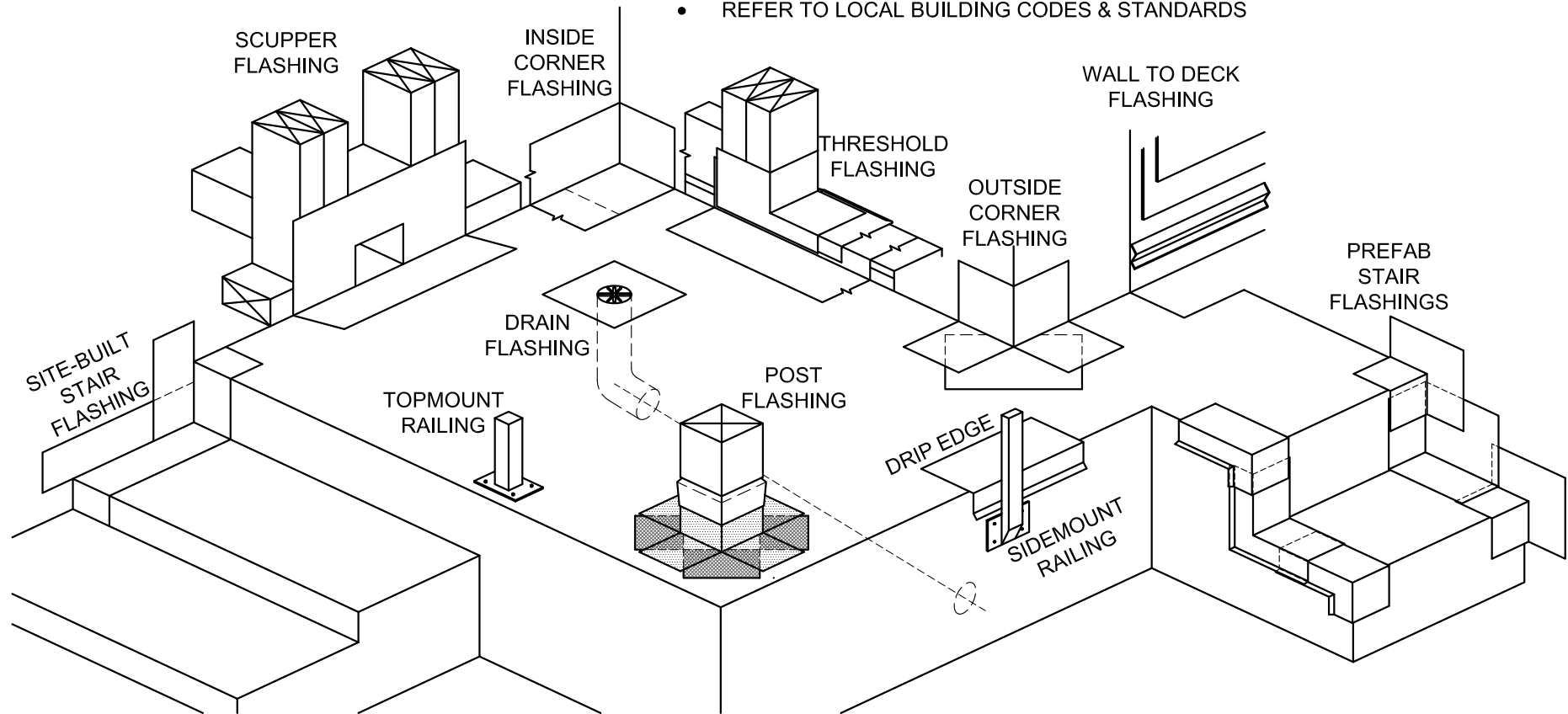
# **ARCHITECTURAL DETAILS**

## WESTCOAT MULTIPLE FLASHING DETAILS

NOT TO SCALE

### NOTES:

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS



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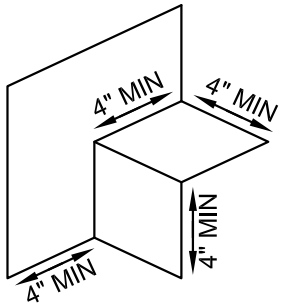
## WESTCOAT STAIR FLASHING DETAIL

NOT TO SCALE

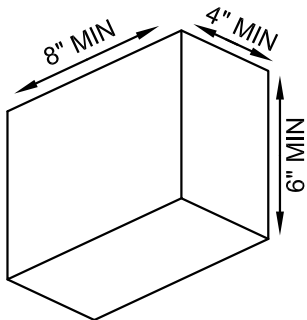
### NOTES:

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS

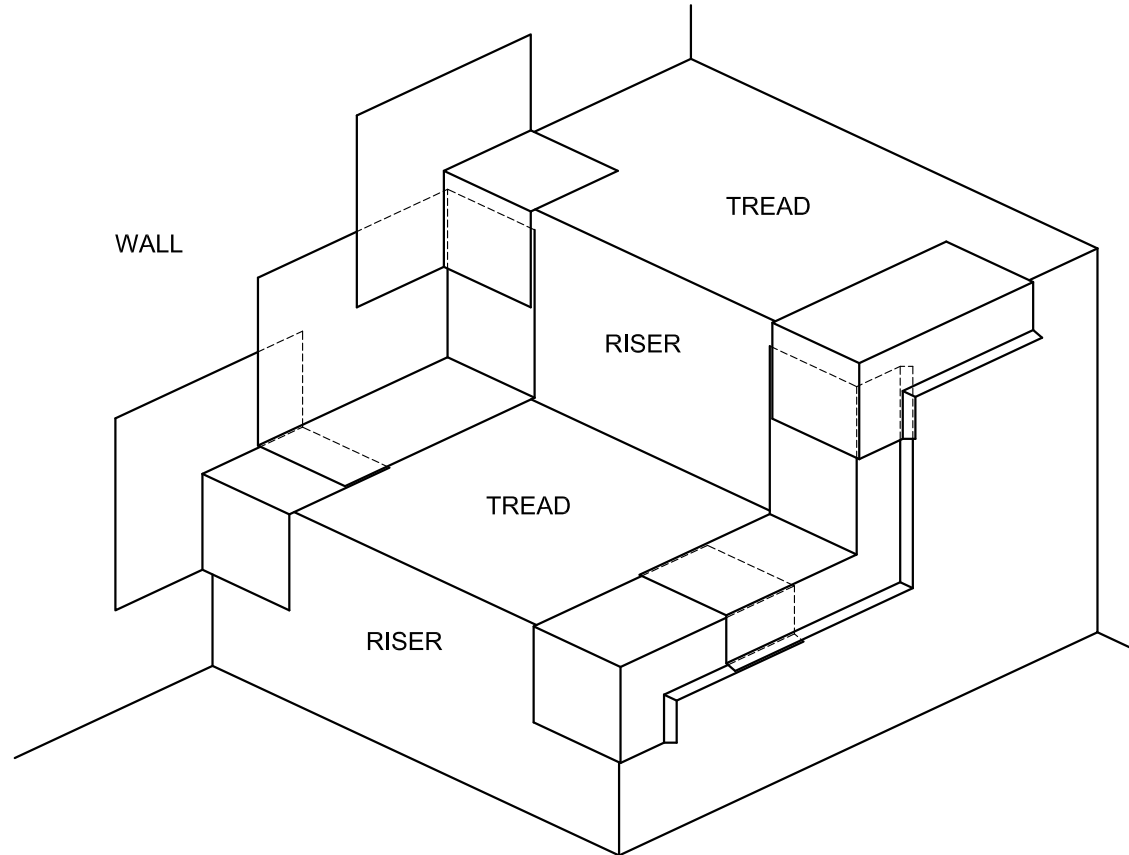
### PREFAB PIECES (INSIDE STAIRS)



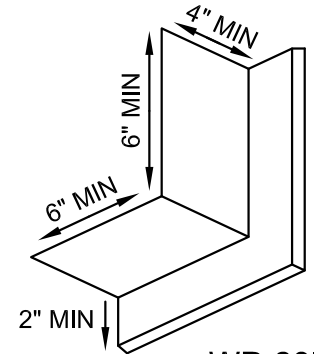
WP-270  
SEALANT



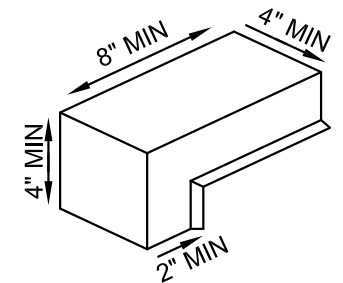
WP-271  
SEALANT



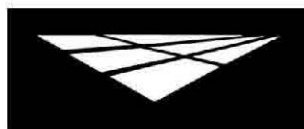
### PREFAB PIECES (OUTSIDE STAIRS)



WP-281  
SEALANT



WP-280  
SEALANT



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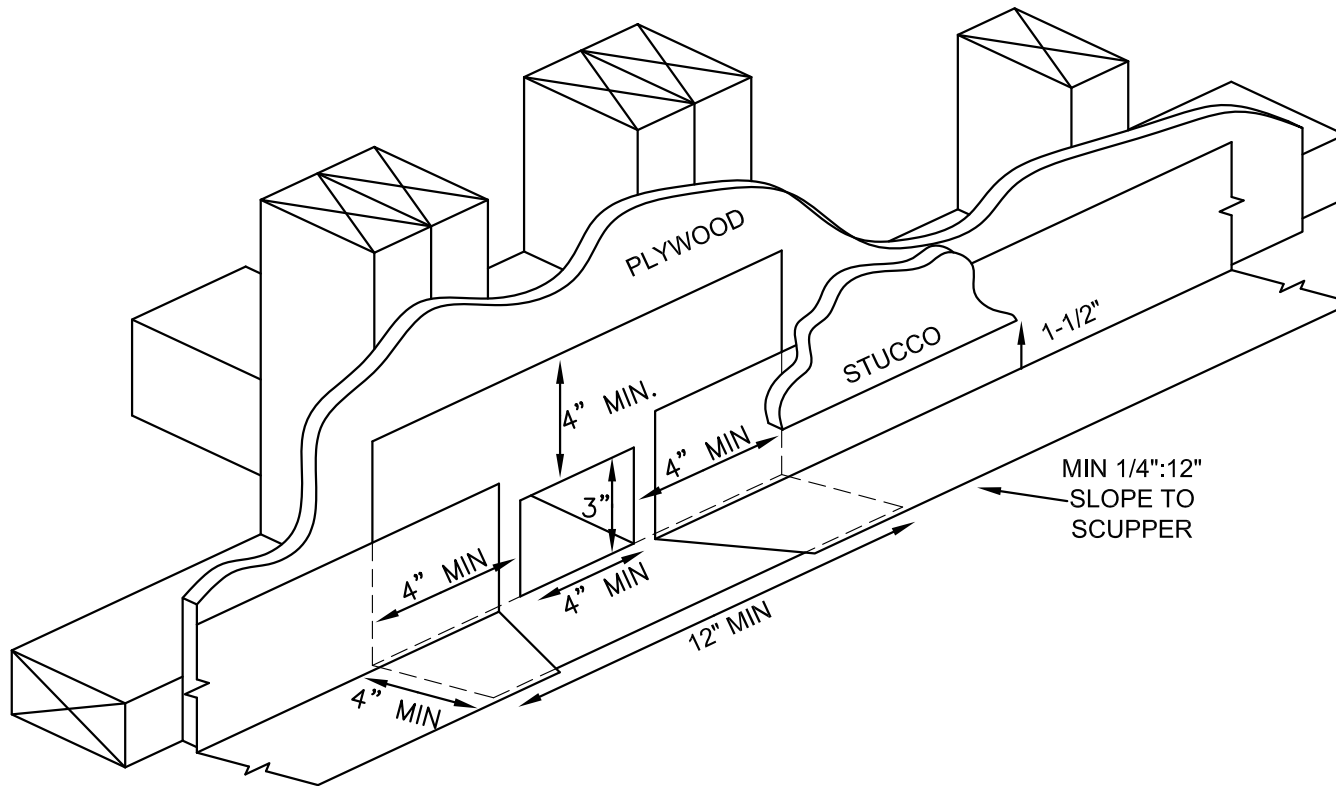
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## WESTCOAT SCUPPER FLASHING DETAIL

NOT TO SCALE

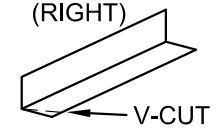
### NOTES:

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS

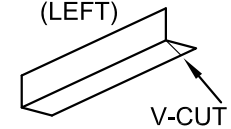


### SITE-BUILT PIECES

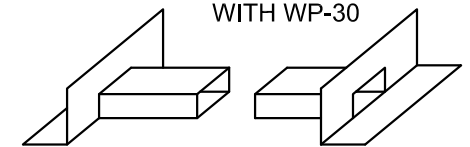
(RIGHT)



(LEFT)

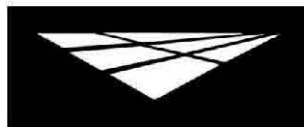


### PREFABRICATED SCUPPER FLASHING WITH WP-30



BACK

FRONT



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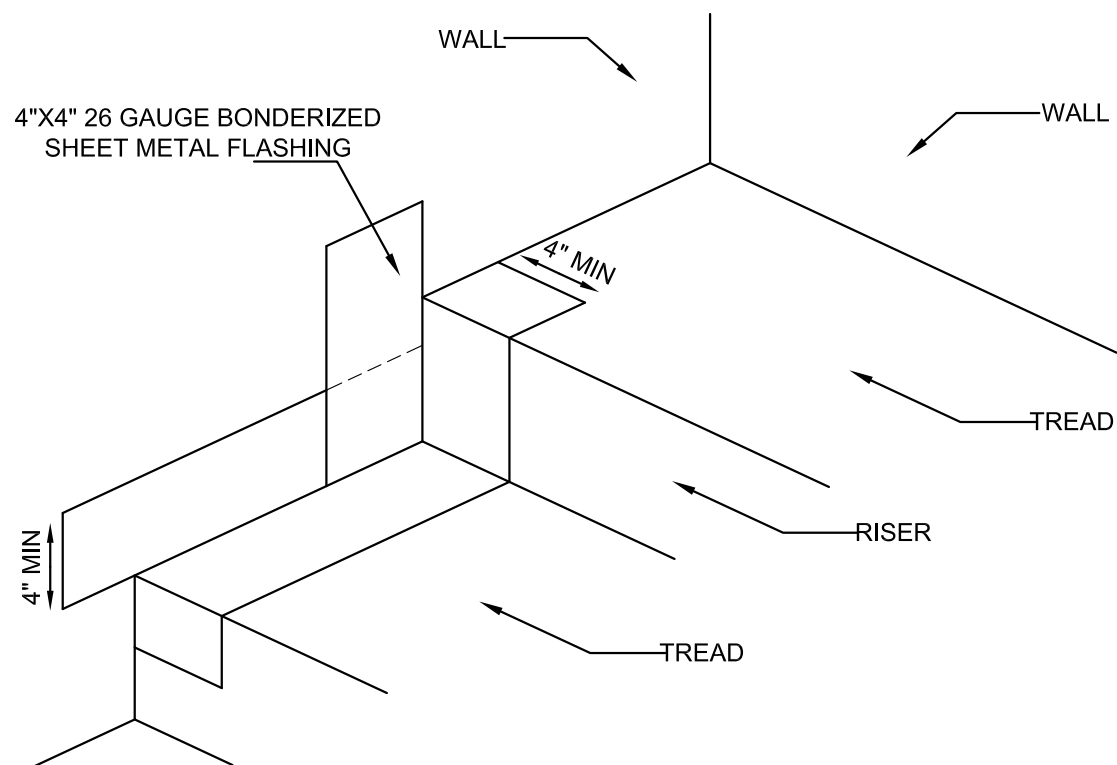
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## WESTCOAT STAIR FLASHING DETAIL

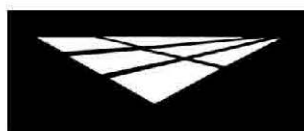
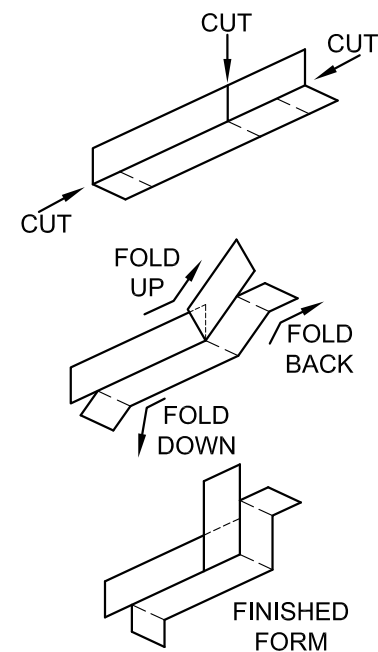
NOT TO SCALE

### NOTES:

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS



### SITE BUILT PIECE



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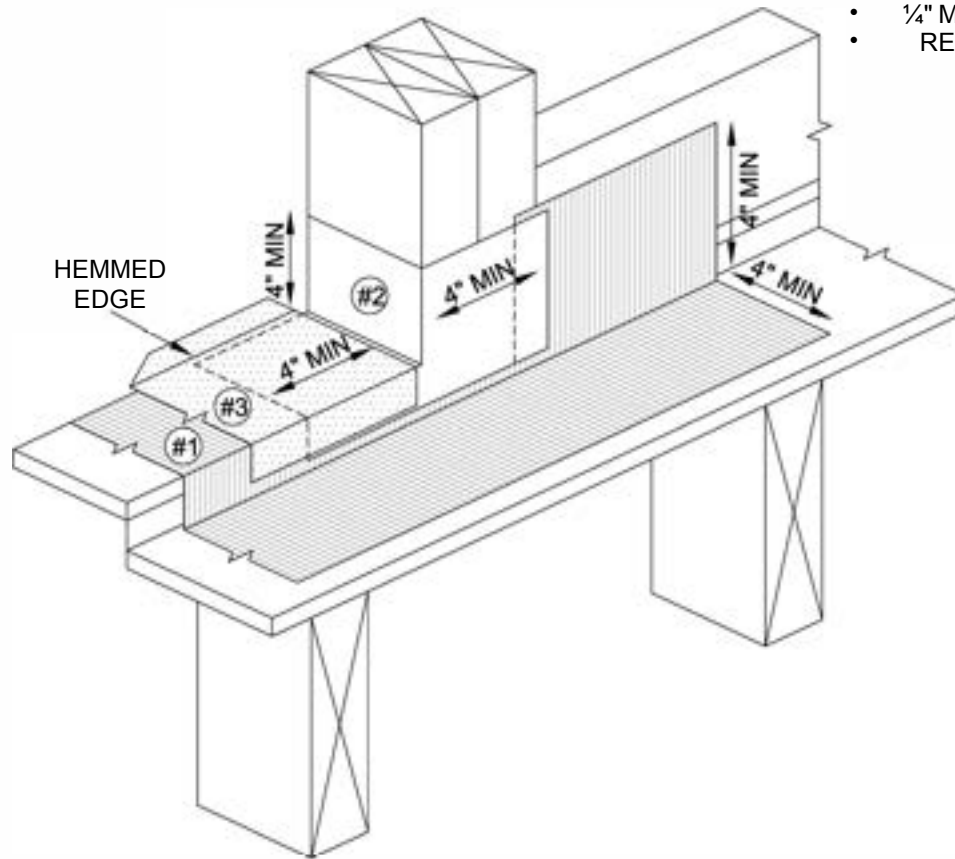
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# WESTCOAT THRESHOLD FLASHING DETAIL

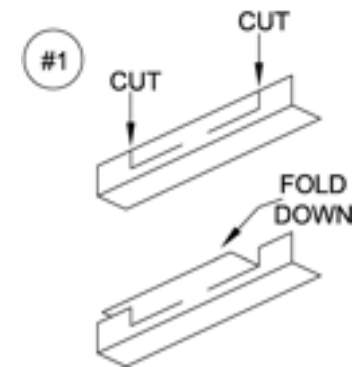
NOT TO SCALE

## NOTES:

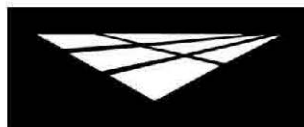
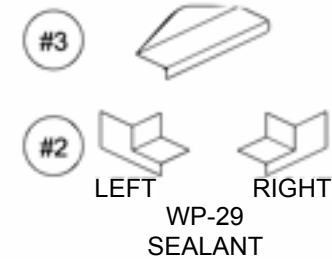
- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STD. OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- 3/4" EXTERIOR GRADE MINIMUM FOR PLYWD. SUBSTRATE
- 1/4" MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS



## SITE BUILT PIECE



## PREFAB. PIECES



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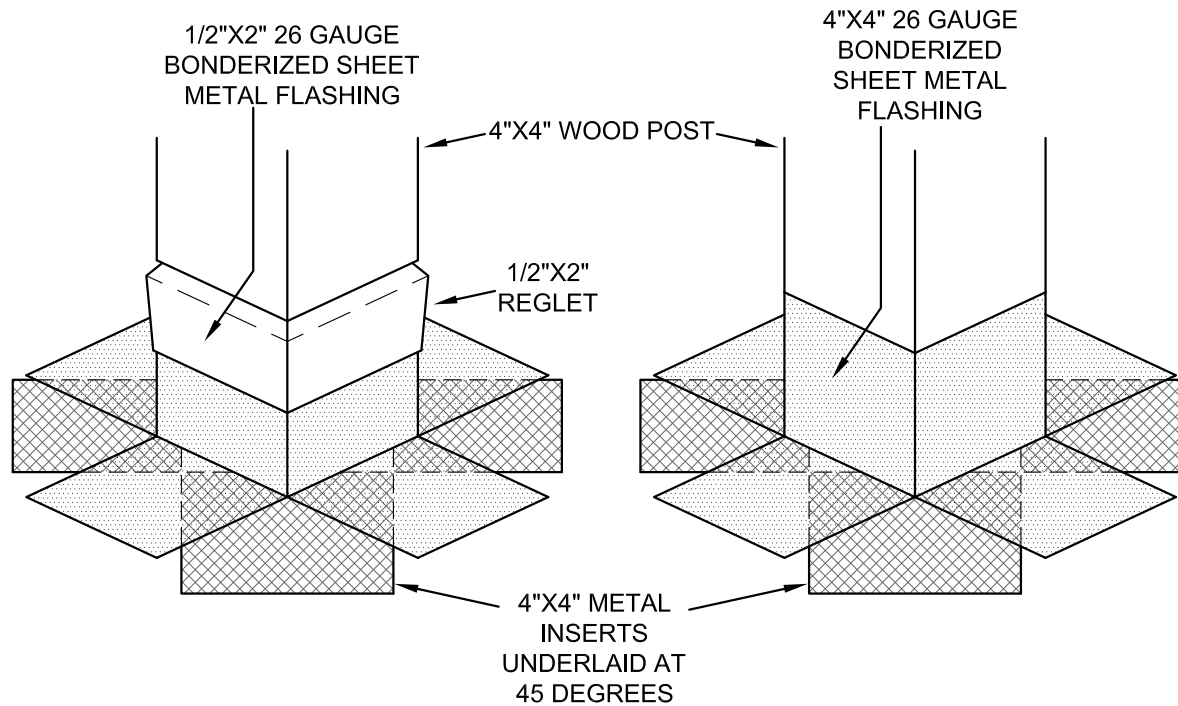
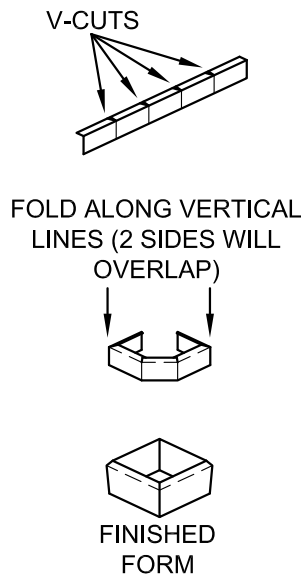
## WESTCOAT POST FLASHING & REGLET DETAIL

NOT TO SCALE

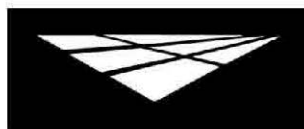
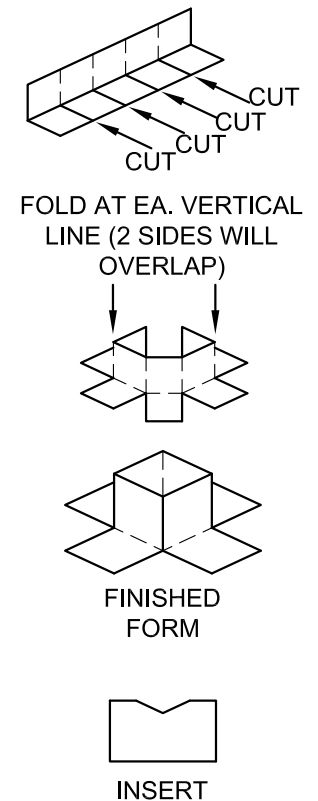
**NOTES:**

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS
- REFER TO LOCAL BUILDING CODES & STANDARDS

**SITE BUILT  
REGLET**



**SITE BUILT  
FLASHING**



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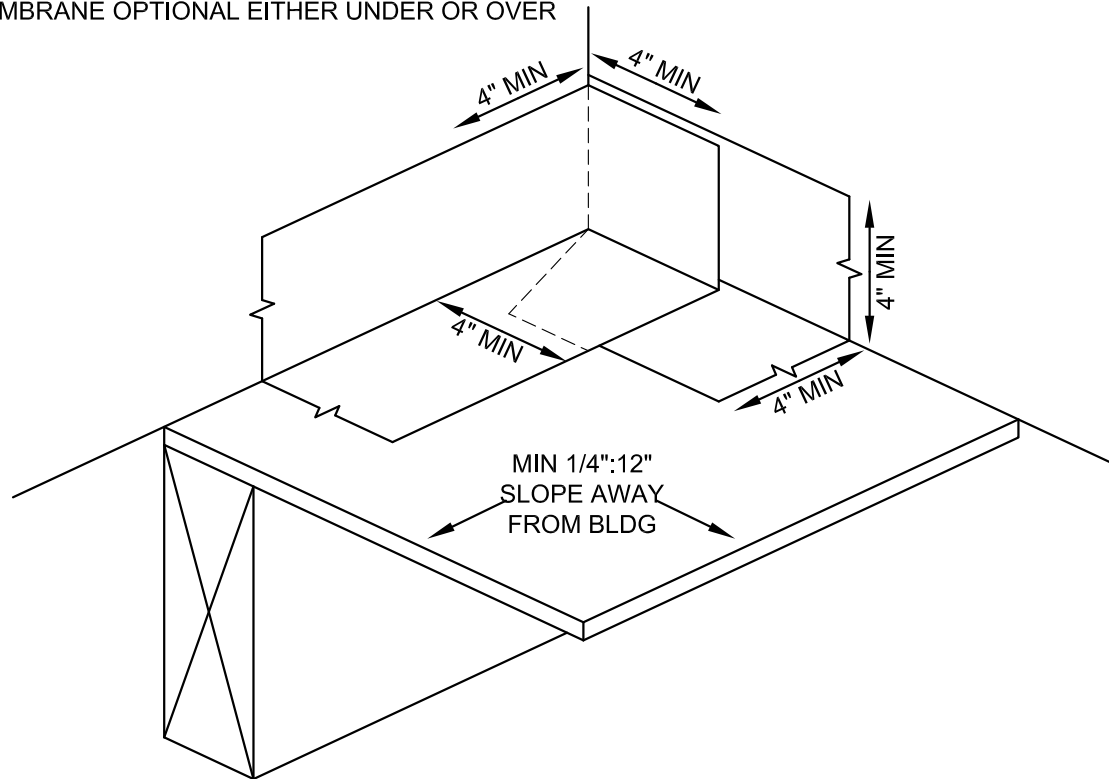
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## WESTCOAT ALX INSIDE CORNER FLASHING DETAIL (OVER PLYWOOD)

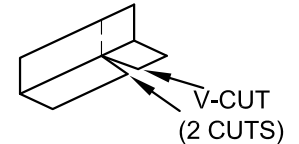
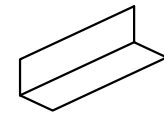
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### NOTES:

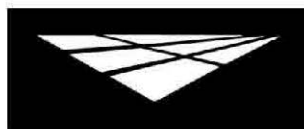
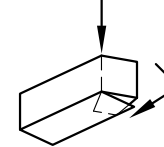
- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES.
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE.
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS.
- REFER TO LOCAL BUILDING CODES & STANDARDS.
- WP-40 SHEET MEMBRANE OPTIONAL EITHER UNDER OR OVER SHEET METAL.



### SITE BUILT PIECE



FOLD INWARD  
ALONG HERE



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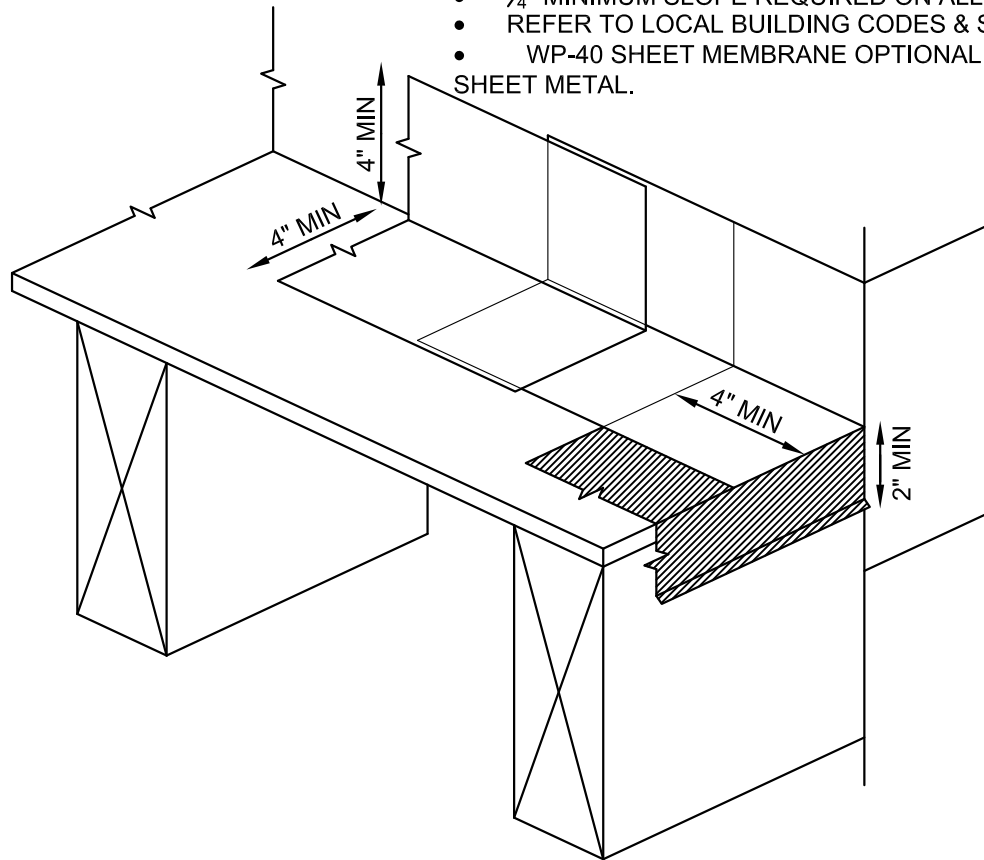
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# WESTCOAT ALX OUTSIDE CORNER FLASHING DECK TERMINATION DETAIL (OVER WOOD)

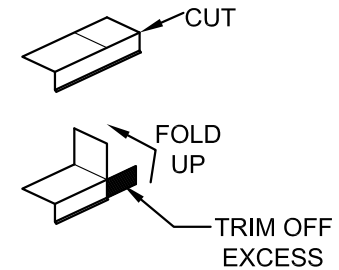
NOT TO SCALE

## NOTES:

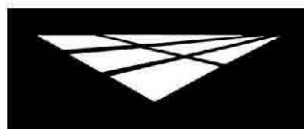
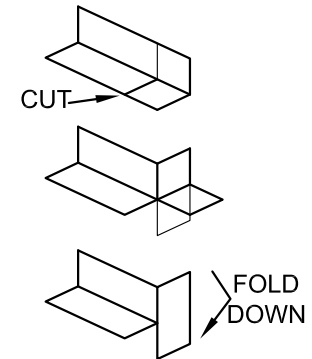
- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES.
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE.
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS.
- REFER TO LOCAL BUILDING CODES & STANDARDS.
- WP-40 SHEET MEMBRANE OPTIONAL EITHER UNDER OR OVER SHEET METAL.



## FIRST PIECE



## SECOND PIECE



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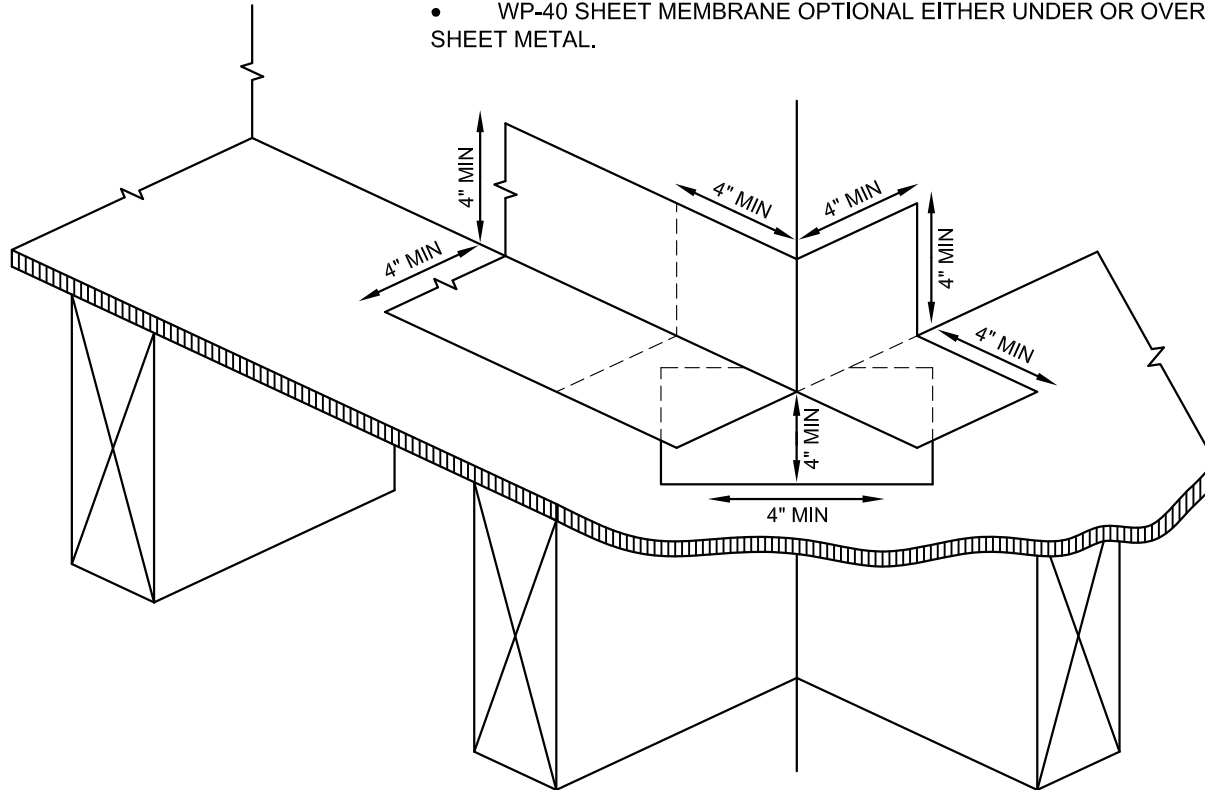
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# WESTCOAT ALX OUTSIDE CORNER FLASHING DECK WRAPAROUND DETAIL (OVER WOOD)

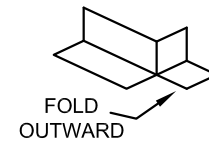
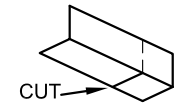
NOT TO SCALE

## NOTES:

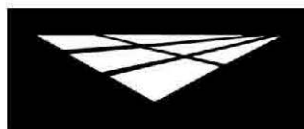
- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES.
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE.
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS.
- REFER TO LOCAL BUILDING CODES & STANDARDS.
- WP-40 SHEET MEMBRANE OPTIONAL EITHER UNDER OR OVER SHEET METAL.



## FIRST PIECE



## SECOND PIECE



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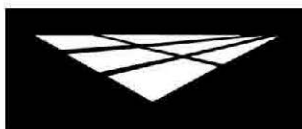
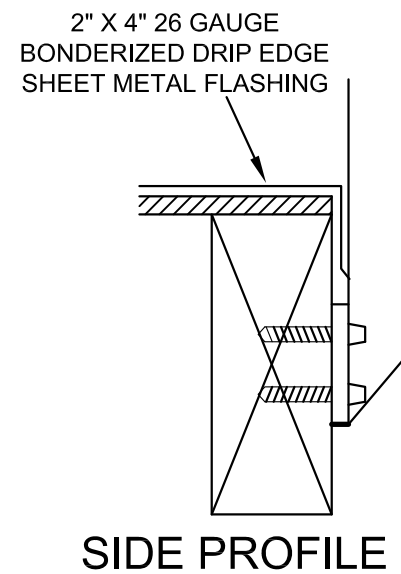
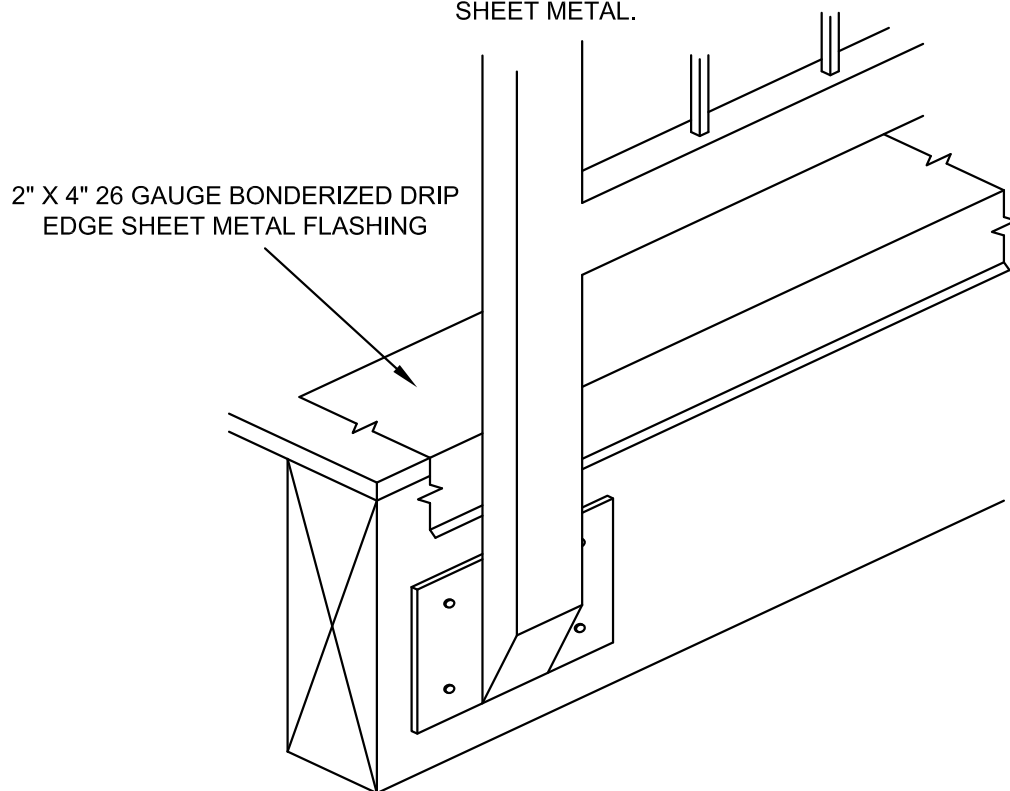
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## WESTCOAT ALX SIDE MOUNT DECK RAILING DETAIL (OVER WOOD)

NOT TO SCALE

### NOTES:

- APPLY WP-51 ON ALL FLASHING SEAMS AND OVERLAPS. STANDARD OVERLAP IS BOTTOM TO TOP WITH A 4" OVERLAP.
- 2500 PSI MINIMUM FOR CONCRETE SUBSTRATES.
- $\frac{5}{8}$ " EXTERIOR GRADE MINIMUM FOR PLYWOOD SUBSTRATE.
- $\frac{1}{4}$ " MINIMUM SLOPE REQUIRED ON ALL DECKS.
- REFER TO LOCAL BUILDING CODES & STANDARDS.
- WP-40 SHEET MEMBRANE OPTIONAL EITHER UNDER OR OVER SHEET METAL.



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