

AlphaGuard® BIO Base Coat

High Performance, Two-Part, Bio-Based Polyurethane Base Coat

Composition: The AlphaGuard BIO Base Coat is a two-part, bio-based, polyurethane roof coating. AlphaGuard BIO Base Coat is used with fiberglass mat or polyester reinforcement.

Basic Uses: The AlphaGuard BIO System can be used in a variety of projects, including roof restoration, approved recover and new construction assemblies, IRMA and vegetative roof systems.

Limitations:

- Do not apply when ambient temperatures are below 45°F (7°C)
- Do not apply when overnight temperature drops below 40°F (4°C)
- Do not adhere to expanded polystyrene or extruded polystyrene.
- Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks.
- Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and silicone-based coatings and sealants.

Packaging:

Part A - 5 gallon (18.9 L) container (3.2 gal total).
Part B - 1 gallon (3.78 L) container (0.8 gal total).
Each Part A & Part B kit yields 4 gallons

Colors: Gray

Product Advantages	
Features	Benefits
Bio Content	<ul style="list-style-type: none"> • High bio content makes product sustainable and environmentally friendly
Catalyzed Cure	<ul style="list-style-type: none"> • Results in faster cure times than similar one-component products
Versatile	<ul style="list-style-type: none"> • Suitable for use over many substrates/roof types
High Solids	<ul style="list-style-type: none"> • 100% Solids
Low VOC	<ul style="list-style-type: none"> • Low Odor • Meets California VOC limits • Can be used in limited access areas
Chemical Resistant	<ul style="list-style-type: none"> • Resistant to a wide variety of harmful chemicals

Grade: Brush/roller/squeegee.

Pot Life: 20-25 minutes (77°F/50% RH)

***Temperature dependent - Increasing temperature reduces expected pot-life**

Storage Life: 12 months in unopened containers. Recommended storage conditions are in an area sheltered from harsh weather conditions at temperatures ranging from 60-80°F (15-26°C) and low humidity. Storage temperatures must not exceed 110°F (43°C). Do not store in direct sunlight.

APPLICATION:

Preparation: Clean the substrate with a high pressure power wash of at least 2,000 psi. Prior to application the surface must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris.

Mixing: Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

Mix Part A (Gray Label) for 1 minute before adding Part B (Gray Label). After adding Part B mix the combined materials for a minimum of 2 minutes moving the mix blade from top to bottom. Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. Never fully invert empty pails in attempt to drain material will result in non-curing material.

Do not break down kits into smaller quantities – MIX ENTIRE KIT.

Repairs: If AlphaGuard BIO is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system. Allow suggested cure time of repairs before applying AlphaGuard BIO to the roof surface.

Reinforcement: AlphaGuard BIO Base Coat requires full reinforcement with AlphaGuard Glass Mat or Permafab. Fully embed reinforcement into wet coating using a brush or roller until free of voids, wrinkles, air pockets, standing fibers, etc.

**ACCEPTABLE ROOF SURFACES/SUBSTRATES:
Bituminous Roof Systems**

AlphaGuard BIO can be used over aged asphalt based roof products. When using over felt roof systems, repair any blisters and degraded felts.



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Concrete

AlphaGuard BIO can be used directly over concrete with the appropriate primer. Any cracks should be repaired before coating is applied. Allow new concrete to fully cure for a minimum of 28 days (a concrete dryness test should be performed before application).

Single Ply Systems

AlphaGuard BIO can be used over select single ply systems, when used with the appropriate primer.

Modified Bitumen Systems

AlphaGuard BIO can be used over MB roof systems when used with the appropriate primer.

Coverage Rate:

Smooth BUR/MB, Concrete, Single-Ply surfaces:

3 gals / SQ (48 wet mils) minimum

Granule surfaced MB:

4 gals / SQ (64 wet mils) minimum

Clean Up: Before the product cures, clean surfaces and equipment with Isopropyl Alcohol.

Precautions: Use Tremco AlphaGuard BIO System Coatings with adequate ventilation. Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216-292-5000.

Maintenance: Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

Guarantee/Warranty: Tremco Inc. warrants AlphaGuard BIO to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, AlphaGuard BIO in standard packaging to replace any AlphaGuard BIO proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for AlphaGuard BIO. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

AlphaGuard BIO can be used in a system configuration. Talk to your local Tremco Representative about system roof warranties.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for

Physical Performance Characteristics

AlphaGuard BIO Base Coat

Property	Test Method	Typical Value
Tensile Strength ¹	ASTM D412	1,400 lb/in ²
Water Vapor Transmission ¹	ASTM E96	0.19 perms
Low Temperature Flexibility	ASTM D522	Pass at -25°F (1/2" mandrel bend)
Tear Strength ¹	ASTM D5147	309 lbf
Water Absorption ¹	ASTM D471	0.008
Indentation Hardness	ASTM D2240	88 Shore A
Dimensional Stability ¹	ASTM D5147	< 0.1%
Volume Solids	ASTM D 2697	100%
Weight Solids	ASTM D 1644	100%
Volatile Organic Content	ASTM D3960	1 g/L (A+B mix)
Viscosity	ASTM D 2196	2,500 - 5,500 cp

¹ Data is for AlphaGuard BIO System

Skin & Over-Coat Times

Skin Time at: 77 °F / 50% RH 3-4 hours

Over-Coat Time at: 77 °F / 50% RH 6-7 hours

NOTE- Both skin & overcoat times are temperature-dependent. Higher temperatures will result in reduced skin/overcoat times, lower temperatures may result in extended skin/overcoat times

special applications. The services of the Tremco Research Center, which has earned a unique reputation in weather-proofing technology, complement and extend the services of the Tremco Technical Service Staff.

Statement of Policy and Responsibility:

Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

TREMCO

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Toronto, ONT M4H 1G7
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AlphaGuard® BIO Top Coat

High Performance, Two-Part, Bio-Based Polyurethane Top Coat

Composition: The AlphaGuard BIO Top Coat is a two-part, bio-based, polyurethane roof coating.

Basic Uses: The AlphaGuard BIO Top Coat can be used in a variety of projects, including roof restoration, approved recover and new construction assemblies, IRMA and vegetative roof systems. AlphaGuard BIO Top Coat is used as a surfacing over AlphaGuard BIO Base Coat and reinforcement.

Limitations:

- Do not apply when ambient temperatures are below 50°F (10°C)
- Do not apply when overnight temperature drops below 40°F (4°C)
- Do not adhere to expanded polystyrene or extruded polystyrene.
- Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks.
- Not for use over coal tar pitch, gravel BUR, metal roof systems.

Product Advantages	
Features	Benefits
Bio Content	<ul style="list-style-type: none"> • High bio content makes product sustainable and environmentally friendly
Reflective Top Coat	<ul style="list-style-type: none"> • Lower surface temperature • Potential Energy Savings
Catalyzed Cure	<ul style="list-style-type: none"> • Results in faster cure times than similar one-component products
Versatile	<ul style="list-style-type: none"> • Suitable for use over many substrates/roof types
High Solids	<ul style="list-style-type: none"> • 100% Solids
Low VOC	<ul style="list-style-type: none"> • Low Odor • Non-flammable • Meets California VOC limits • Can be used in limited access areas
Chemical Resistant	<ul style="list-style-type: none"> • Resistant to a wide variety of harmful chemicals

Packaging:

Part A - 5 gallon (18.9 L) container (2.2 gal total).
 Part B - 1 gallon (3.78 L) container (0.9 gal total).
 Each Part A & Part B kit yields 3 gallons.

Colors: White

Grade: Brush/roller/squeegee.

Pot Life: 20-25 minutes (77°F/50% RH)

***Temperature dependent - Increasing temperature significantly reduces expected pot-life**

Storage Life: 12 months in unopened containers. Recommended storage conditions are in an area sheltered from harsh weather conditions at temperatures ranging from 60-80°F (15-26°C) and low humidity. Storage temperatures must not exceed 110°F (43°C). Do not store in direct sunlight.

APPLICATION:

Preparation: AlphaGuard BIO Base Coat must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris. AlphaGuard BIO Base Coat should be top-coated within 72 hours of base coat application.

Mixing: Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

Mix Part A (White Label) for 1 minute before adding Part B (White Label). After adding Part B mix the combined materials for a minimum of 2 minutes moving the mix blade from top to bottom. Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. Never fully invert empty pails in attempt to drain material – will result in non-curing material.

Do not break down kits into smaller quantities – MIX ENTIRE KIT.

Repairs: If AlphaGuard BIO is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system. Allow suggested cure time of repairs before applying AlphaGuard BIO to the roof surface.

ACCEPTABLE ROOF SURFACES/SUBSTRATES: Properly applied and cured AlphaGuard BIO Base Coat and reinforcement.



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Non-Skid Application: In areas where a slip-resistant surface is required, 20 - 40 mesh silica sand can be broadcast at 10 - 15 lbs / SQ (0.5 - 0.7 kg/m²) and back-rolled in an additional layer of Tremco AlphaGuard BIO Top Coat.

Coverage Rate:

Top Coat: 2 gals / SQ (32 wet mils).
 Non-Skid Coat: 1.5 gals / SQ (24 wet mils)

Clean Up: Before the product cures, clean surfaces and equipment with Isopropyl Alcohol.

Precautions: Use Tremco AlphaGuard BIO System Coatings with adequate ventilation. Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216-292-5000.

Maintenance: Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

Guarantee/Warranty: Tremco Inc. warrants AlphaGuard BIO to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, AlphaGuard BIO in standard packaging to replace any AlphaGuard BIO proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for AlphaGuard Bio. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

AlphaGuard BIO can be used in a system configuration. Talk to your local Tremco Representative about system roof warranties.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which

Physical Performance Characteristics

AlphaGuard BIO Top Coat

Property	AlphaGuard Typical Value	Test Method
Water Vapor Transmission ¹	Wet Cup 0.019 perm-in. (1.32 g/m ² /day)	ASTM E 96
Volume Solids	100%	ASTM D 2697
Weight Solids	100%	ASTM D 1644
Volatile Organic Content	6 g/l (on A + B mix)	ASTM D 3960
Viscosity	1,500-4,500 cp	ASTM D 2196

¹ Data is for AlphaGuard Bio System. Data has not been 3rd Party Tested

Skin & Over-Coat Times

Skin Time at: 77 °F / 50% RH 2-3 hours

Over-Coat Time at: 77 °F / 50% RH 7-8 hours

NOTE- Both skin & overcoat times are temperature-dependent. Higher temperatures will result in reduced skin/overcoat times, lower temperatures may result in extended skin/overcoat times

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INSTALLATION GUIDE

AlphaGuard™ BIO/MT

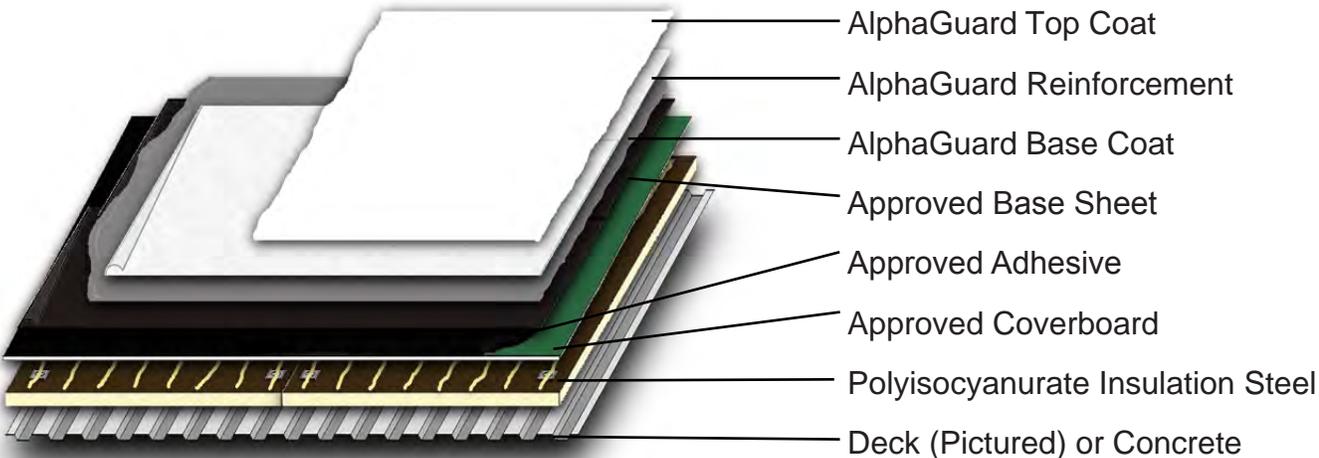


ALPHAGUARD™
LIQUID APPLIED ROOFING SOLUTIONS

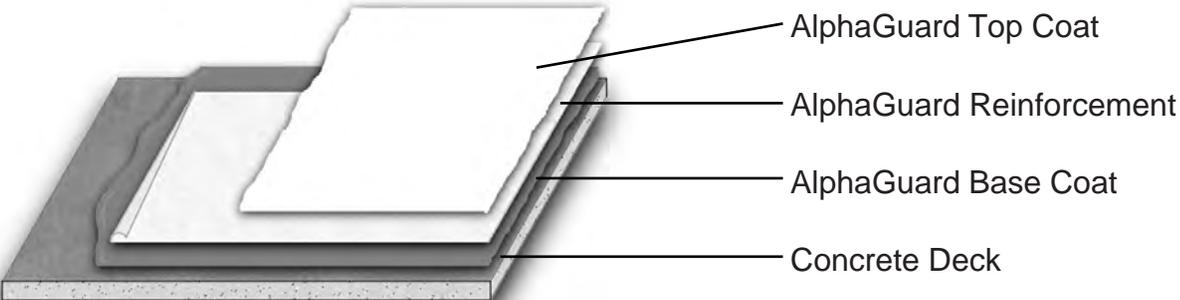
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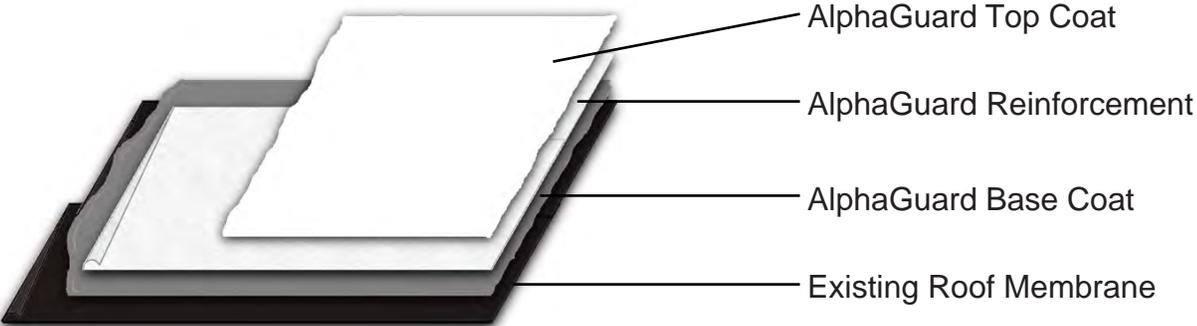
AlphaGuard MT Plus Roofing System



AlphaGuard MT Concrete Roofing System



AlphaGuard BIO/MT Restoration System



General Overview

AlphaGuard MT

The AlphaGuard MT System is a liquid-applied, moisture triggered, aliphatic, polyurethane elastomeric roofing membrane that provides seamless waterproofing.

The unique moisture triggered formula uses moisture from the air to begin the curing process, but does not rely on moisture for the entire curing process. This differs from moisture cured urethanes, which needs the moisture for the entire curing process and is susceptible to carbon dioxide gassing and pin holing. This makes for a more stable, uniformed cure.

This UV resistant, high solid, durable roofing system is low odor, low VOC and is field-applied with one-part liquid waterproofing layers reinforced with fabric. AlphaGuard MT can be fully bonded to a variety of substrates as a maintenance and restoration system or as a new construction system.

Fabric reinforcement is required to provide dimensional stability to the cured urethane waterproofing. Fabric reinforcement will prevent potential shrinkage, especially in high movement flashing areas.

AlphaGuard BIO

The AlphaGuard BIO System is a liquid-applied, bio-based, two-component, polyurethane roof restoration system.

The development of AlphaGuard BIO is derived from unique bio-based, polyurethane technology. The high bio-content makes for a sustainable, environmentally responsible roofing product while the polyurethane technology offers long-term performance in the toughest conditions.

AlphaGuard BIO is a low VOC product with virtually no odor, making it ideal for applications over occupied space causing little to no disruption to the building's occupants.

The 100% solids, highly reflective, UV resistant consists of a field applied base and top coat. The two-component technology has a catalyzed curing process which results in a faster dry times, a more uniform finished film, and negates the possibility of blistering, gassing, pinholing, etc.

AlphaGuard BIO can be installed as a maintenance and restoration system for existing BUR, MB, and single-ply roofing systems. It is applied in fully-reinforced or partially-reinforced applications utilizing a glass mat or polyester reinforcement.

Storage & Handling

All AlphaGuard components will be delivered to the site in original sealed containers. Store AlphaGuard components in cool, dry spaces outside of direct sunlight in accordance with local regulations. Store away from heat, open fire, or any ignition sources. In addition, store away from strong acids or bases.

Rolls must be stored vertically to prevent contact with water and other contaminants. Optimum storage temperature is between 60°F and 90°F. Shelf life drops at temperatures above this range. In addition, resins risk self-polymerization when exposed to temperatures above 140°F.

Do not smoke around Geogard Primer and keep product away from open flame, fire, or any ignition source. Geogard Primer, in particular, is flammable and harmful if inhaled, swallowed or absorbed through the skin. This can cause skin, eye, and respiratory irritation.

Weather Restrictions

AlphaGuard System installations cannot proceed when there is a threat of precipitation or condensation on the substrate exists. Applying AlphaGuard during or just before a precipitation event can cause the surface to become pitted or distorted.

Application of AlphaGuard MT System is permitted when the ambient temperature is between 50°F (10°C) and 110°F (43°C) and the substrate temperature is a minimum of 5°F above the dew point. It is required that overnight temperatures be above 40°F (4.4°C).

Application of AlphaGuard BIO System is permitted when the ambient temperature is between 45°F (7°C) and 110°F (43°C) and the substrate temperature is a minimum of 5°F above the dew point. It is required that overnight temperatures be above 40°F (4.4°C).

Personal Protection Equipment

Refer to the MSDS for each product for specific PPE information.

Provide the following to installers: Safety Shoes & Overalls, suitable Hand, Eye, and Ear Protection, and hard hats & appropriate fall protection. Comply with requirements of OSHA, NIOSH or governing local authority regarding barricades, retaining ropes, and other safety elements (active / passive).

Use AlphaGuard with adequate ventilation or respiratory protection as needed to keep exposure below TLV values within applications lacking sufficient natural air movements. Protect HVAC air intake ducts from infiltration into the building interior. Pre-existing eyes, skin, and respiratory issues may be aggravated by exposure, and may cause skin and respiratory sensitization.

Geogard Primer is flammable and harmful if inhaled, swallowed or absorbed through the skin. This can cause skin, eye, and respiratory irritation. Do not smoke around Geogard Primer and keep product away from open flame, fire, or any ignition source.

Tools & Equipment

- Blower, Broom, or Vacuum
- Chalk Line
- Disposable Rubber Gloves
- Extension Cords
- Garbage Bags
- Generator
- Hand Grinder
- Hand Sander
- Masking Tape
- Pail Heat Bands
- Paint Brushes - 4"
- Paint Roller Cages - 4" & 9"
- Paint Roller Covers - 4" & 9" - 3/8-1/2" nap
- Paint Roller Extension Handles
- Paint Trays
- Power washer (3,000 psi max)
- Rags
- Scarifier (concrete substrates)
- Scissors and/or Razor Knives
- Screwdrivers
- Shot Blaster (concrete substrates)
- Sockets / Wrenches
- Squeegees - Flat Blade & 1/4" Notched
- Tap Set
- Tape measure
- Tarps and/or Sheeting
- Wet Mil Gauge
- Water Source

Product List

Liquid Applied Products

AlphaGuard MT Base Coat
AlphaGuard MT Top Coat
AlphaGuard BIO Base Coat Kits (Part A & B)
AlphaGuard BIO Top Coat Kits (Part A & B)

Reinforcing Materials

AlphaGuard Glass Permafab Mat
(Polyester Reinforcement)

Primers

AlphaGuard C-Prime
AlphaGuard M-Prime
AlphaGuard WB Primer
Geogard Primer
Tremco Primer/Splice Wash
Tremco Primer/Splice Wash LV

Sealants

Geogard Seam Sealer
Solargard Seam Sealer
TremSEAL HP
TremSEAL Pro

Base Plys

BURmastic Composite Ply HT Green
BURmastic Composite Ply Premium Green
BURmastic Composite Ply HT BURmastic
Composite Ply Premium BURmastic
Supreme Composite Ply POWERply Heavy
Duty Base POWERPLY Standard Smooth
POWERply Premium Smooth
POWERply Plus HT Smooth
POWERply 300 Smooth
POWERply SBS Base HW
POWERply SBS Deluxe HW
POWERply APP FR

Base Ply Adhesive

BURmastic Adhesive SF (AlphaGuard MT only)
Hot Asphalt
POWERply Endure BIO Adhesive

Insulation Adhesive

Tremco Low Rise Foam Adhesive



Roofing & Building Maintenance

AlphaGuard Primer Matrix

Substrates	C-Prime	M-Prime	Re-Prime	Primer/Splice Wash	WB Primer
Wood					
Metal		X			
Concrete	X				
Brick	X				
Stone	X				
Bituminous Surfaces			X		X
MB Cap Sheets			X		X
EPDM				X	X*
PVC/TPA					X
TPO					X
Hypalon				X	X
Plastic/PVC Pipes		X			
Urethane Coated Surfaces			X		X

*When using AlphaGuard WB Primer, a test patch must be utilized to ensure proper adhesion to the substrate.

Chart 1

System Qualifications

Existing Warranties

Notify warrantor of extent of work. Do not proceed with work that will diminish Owner's protection under existing warranties unless directed by Owner.

Examination

Examine existing roofing substrates, with Installer present, for compliance with requirements and for other conditions affecting application and performance of roof coatings.

- For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance.
- Verify compatibility with and suitability of substrates.
- Verify that substrates are visibly dry and free of moisture. Conduct an IR scan on applicable roof assemblies to identify moisture within the existing roof system.
- Verify that roofing membrane surfaces have adequately aged to enable proper bond with base coat.
- Verify that roofing membrane is free of blisters, splits, open laps, indications of shrinkage, and puncture damage or other indications of impending roof system failure.
- Application of fluid-applied membrane indicates acceptance of surfaces and conditions.

Preparation

Protect existing roofing system that is indicated not to receive fluid-applied roofing, and adjacent portions of building and building equipment.

- Comply with warranty requirements of existing roof membrane manufacturer.
- Limit traffic and material storage to areas of existing roofing membrane that have been protected.
- Maintain temporary protection and leave in place until replacement roofing has been completed.

Shut down air intake equipment in the vicinity of the Work in coordination with the Owner. Cover air intake louvers before proceeding with coating work that could affect indoor air quality or activate smoke detectors in the duct work.

- Verify that rooftop utilities and service piping affected by the Work have been shut off before commencing Work.

Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.

- Do not permit water to enter into or under existing membrane roofing system components that are to remain.

System Qualifications

Roof Coating Preparation

Membrane Surface Preparation:

- Remove aggregate ballast or pavers from roofing membrane.
- Remove blisters, ridges, buckles and other substrate irregularities from existing roofing membrane that would inhibit application of uniform, waterproof coating.
- Repair membrane at locations where irregularities have been removed.
- Broom clean existing substrate.
- Clean substrate of contaminants such as dirt, debris, oil, and grease that can affect adhesion of fluid-applied membrane by power washing at minimum 2,000 psi. Remove existing coatings if any. Allow to dry thoroughly.
- Verify that existing substrate is dry before proceeding with application of fluid- applied roofing. Spot check substrates with an electrical capacitance moisture-detection meter.

Roof Coating Preparation

Roof Patching: Notify Owner each day of extent of roof tear-off proposed and obtain authorization to proceed.

- Build-up isolated low spots on existing roofing membrane with fluid- applied manufacturer's recommended products to alleviate ponding.
- Limited Roof Tear-Off: Where indicated, remove existing roofing membrane and other membrane roofing system components down to the deck. Fill in the tear-off areas to match existing membrane roofing system construction.
- During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

Existing Flashings

Remove or repair existing base flashings around parapets, curbs, walls, and penetrations.

- Clean substrates of contaminants such as asphalt, sheet materials, dirt, and debris.
- Do not damage metal counterflashings that are to remain. Replace damaged counterflashings with counterflashings of like metal, weight/ thickness and finish.
- Repair flashings with like materials.
- Repair gravel stops, copings and other roof related sheet metal and trip elements. Reseal joints, replace loose or missing fasteners, and replace components where required to create a watertight condition.

Surface Preparation

Before beginning the project, consider the substrates that are present on your project and refer to the primer matrix (see Chart 1) to select the proper primer.

The substrate in which you will be roofing must be clean and dry. All surfaces should be cleaned with a power washer (min. 2,000 psi) and a cleaning solution that is appropriate for the substrate. Any existing roof system should have a thermal IR scan performed. This will ensure that all areas of concern will be addressed and wet insulation will be removed.

ASPHALT BUR / MB SYSTEMS

When restoring asphalt based roof systems, make all necessary repairs using Solargard Seam Sealer and Permafab. Once all repairs have been made, allow to cure for a minimum of 24 hours before applying the AlphaGuard System.

All surfaces to have AlphaGuard applied, should be power washed (min. 2,000 psi) and all debris removed from roof. Once roof is clean and dry, prime all surfaces that are to be treated. Refer to the primer matrix (see chart 1) for the appropriate primer for this substrate.

For modified bitumen and cap sheet roofs, end laps and side laps must be treated with AlphaGuard base coat or Solargard Seam Sealer at a rate of 50 linear feet/gallon.

CONCRETE DECKS

*When applying AlphaGuard to a concrete substrate, **always** refer to the International Concrete Repair Institute (ICRI) manual for *Selecting and Specifying Concrete Surface Preparation for Sealers, Coating, and Polymer Overlays no. 03732-1.**

In order to use AlphaGuard over a concrete substrate, the surface must be prepared to accept the roofing system. All grease, oils, asphalt remnants, buildup and debris must be removed. The surface must be repaired prior to applying AlphaGuard. All cracks larger than ¼” must be repaired using a rapid set, self-leveling concrete repair mixture. Allow to properly set and dry before proceeding.

Areas that are raised more than ¼”, must be leveled or ground down. This will allow for a level and sound substrate for AlphaGuard. The surface must be shot blasted or scarified to achieve a CSP 3-6 profile (ICRI 03732-1). This will allow the AlphaGuard system to properly adhere to the substrate.

For new concrete substrates, allow a minimum of 28 days, and always test the moisture in the concrete before proceeding with installation of AlphaGuard.

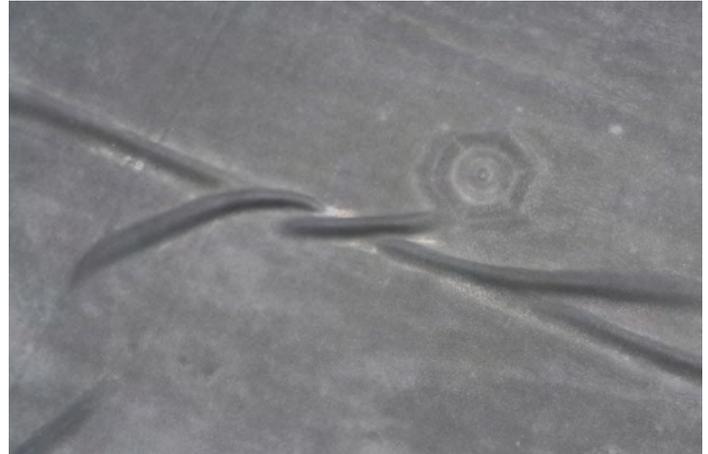
EXISTING URETHANE COATINGS

Existing urethane coatings should power washed (min. 2,000 psi) and allowed to dry before any AlphaGuard is applied. Refer to the primer matrix (see chart 1) for the appropriate primer for this substrate. Allow primer to fully dry before applying AlphaGuard to the substrate.

SINGLE PLY SYSTEMS

The substrate must be inspected for loose flashings, popped fasteners and tearing of the membrane.

All single ply substrates must be clean and dry before any AlphaGuard is applied. The surface must be power washed (min. 2,000 psi) and cleaned with a mild detergent (wax free). Remove any walkway pads and make all necessary repairs before priming the surface. Refer to the primer matrix (see chart 1) for the appropriate primer for this substrate.



Wrinkles in EPDM will telegraph through the AlphaGuard system. It is necessary to make these repairs before applying AlphaGuard.



(Fig. 1)



Holes and tears in membranes must be repaired before AlphaGuard is applied.



(Fig. 2)



White single ply roof, cleaned and ready to be coated with AlphaGuard.

METAL SURFACES

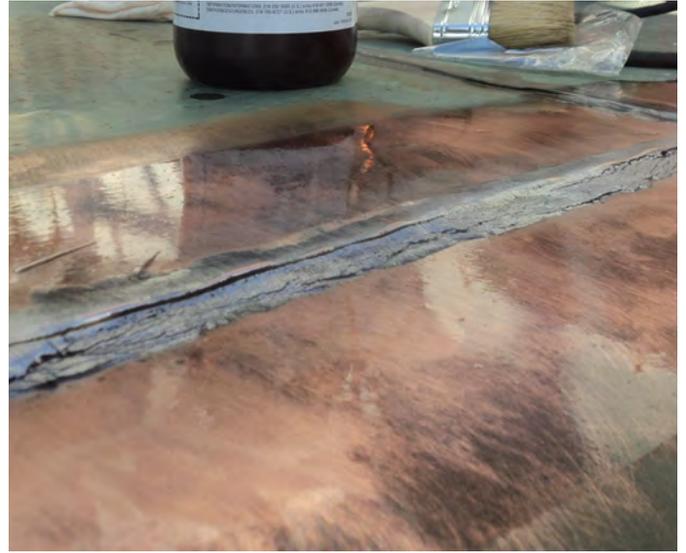
When coating a metal surface, all rusted or oxidized areas must be ground to a bright metal surface. Any painted surfaces should be tested to verify adhesion, either by a small test area or sending a small sample into our lab. Refer to the primer matrix (see chart 1) for the appropriate primer for this substrate.

WOOD SURFACES

AlphaGuard can be applied directly to small wooden details and walls of wood construction. If a wood deck is being utilized, insulation and /or a base sheet must be used. Consult Tremco Technical Service for the recommendations on your project.

BRICK OR STONE SURFACES

When coating or flashing brick or stone, power wash the surfaces and remove any loose mortar or protruding surfaces. Refer to the primer matrix (see chart 1) for the appropriate primer for this substrate.



Metal substrates must be clean and primed with M-Prime.

AlphaGuard Application On Concrete Decks

Minimum deck thickness for structural concrete is 4".

Only poured-in-place concrete that provides bottom side drying is acceptable.

Structural Concrete Deck must be structurally sound, dry, and free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The surface must be scarified, shot blasted or pressure washed with high/ultra high pressure. Remove oil, grease smear and asphalt residue with trisodium phosphate or a strong detergent. For oil contaminated surfaces, use steam cleaning in conjunction with a strong emulsifying detergent. Rinse thoroughly with potable water.



Properly prepared concrete substrate

Remove defective concrete, honeycombs, cavities, joint cracks, voids and other defects by routing to sound material. Smooth precast and formed concrete surfaces must be cleaned,

roughened and made absorptive by mechanical abrasion. Surface profile should be equal to CSP 3-6 in accordance with ICRI Guideline 310.2. If it is not possible to mechanically abrade, acid etch with a 15% Hydrochloric acid solution. After etching, pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed.

The pH of the surface should be checked, as per ASTM D 4262, following acid etching. Following surface preparation, apply AlphaGuard MT to the cleaned surface in a small area. An Elcometer Pull Off Adhesion tester or similar (ASTM D 4541) must be used to test the trial area for proper adhesion. Before application of the coating, use the "Visqueen test" (ASTM D 4263) to evaluate moisture level in concrete.

Allow new structural concrete to cure for a minimum of 28 days. Remove any surface hardener or curing compounds by using the recommended mechanical methods for surface preparation.

Patch all unsound or defective concrete with repair mortar acceptable to material manufacturer.

Prevent dust, vapors, gases, and odors from entering into the building during roof installation. When shutting down or blocking air intakes, provide makeup air or additional intake air from sources away from the work area. Coordinate these procedures with owner's Representative.

Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at the end of each workday, when no work is taking place, or when rain is forecast. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

ICRI Surface Profiles



CSP 1
(Acid Etched)



CSP 2
(Grinding)



CSP 3
(Light Shot blasting)



CSP 4
(Light Scarification)



CSP 5
(Medium Shot blasting)



CSP 6
(Medium Scarification)



CSP 7
(Heavy Abrasive Blast)



CSP 8
(Scabbled)



CSP 9
(Heavy Scarification)

Surface profiles are provided by the International Concrete Repair Institute (ICRI). Molded replicas of these profiles can be purchased from ICRI at www.ICRI.org.

GENERAL INSTALLATION REQUIREMENTS

Use products with personal protection equipment. User must read container label and material safety data sheets prior to use.

Store all materials prior to application at temperatures between 60°F and 90°F

Use with adequate ventilation. Protect HVAC air intake ducts from infiltration into the building's interior.

Application Temperatures:

AlphaGuard BIO: 45°F - 110°F

AlphaGuard MT: 50°F - 110°F

* Cure times are extended below 50°F

Prevent materials from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

Painters tape shall be used to mask detail areas and metal flashings. Remove tape while AlphaGuard remains wet.

All flashings shall be installed first, before the field of the roof is covered.

After base coat and fiberglass reinforcement have been installed, and before the top coat is installed, a thorough inspection of the surface must be conducted by the manufacturer's technical representative. The fiberglass reinforcement must be completely encapsulated by the base coat, with no pinholes or voids, at the end of each work day.

Coverage rates of base coat and top coat must be continuously verified for proper wet film thickness with a wet mil gauge.

Coverage rate of base coat may vary depending on surface conditions.

Raised or exposed fiberglass reinforcement shall be sanded smooth prior to application of top coat.

ALPHAGUARD C-PRIME INSTALLATION

Mixing: Use clean containers and mixing equipment.

Using a low speed "Jiffy" type mixer, mix the A & B components separately for approximately one minute.

Combine one part by volume Part A with one part by volume "B". Mix the components thoroughly for three to five minutes.

Scrape the bottom and sides of the mixing container at least once. Do not mix air into the blend. Mix only enough material that can be used within the working life.

Application: The ambient and surface temperature must be between 50°F to 90°F (10°C to 32.2°C).

Apply to concrete using a short nap roller, squeegee, or brush.

Coverage rates may vary depending on concrete surface conditions.

Surface temperature, porosity and texture will determine actual material quantities. Ensure primer does not puddle and substrate has complete coverage.

AlphaGuard base coat can be applied as soon as the primer has become tack free.

ALPHAGUARD BIO MIXING INSTRUCTIONS

Using a low speed "Jiffy" type mixer, mix AlphaGuard BIO Part A for one minute.

Combine Part B with Part A in its entirety. Do not breakdown kits into smaller quantities.

Mix the components thoroughly until completely blended (typically 2 minutes). Mix only enough material that can be used within the pot life (20-25 minutes).

FLASHING AND STRIPPING INSTALLATION

Base coat and fiberglass reinforcement must be installed on all curbs, penetrations, and drains before moving to installation in the field.

Install masking tape or similar along the top edge of flashings where base coat will terminate.

Prime all metal surfaces with AlphaGuard M-Prime prior to installing flashings.

Install base coat to flashing surfaces according to manufacturer's written instructions. Extend coating up vertical surfaces a minimum of 8" and out onto horizontal surfaces 4".

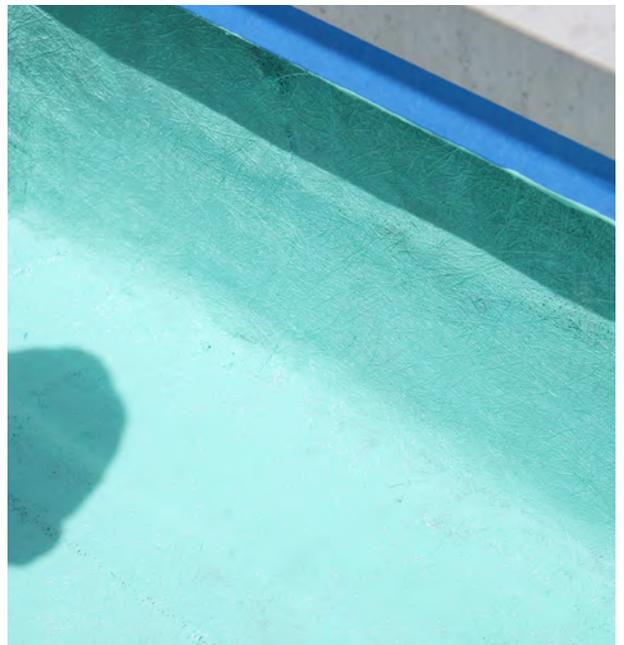
Back roll to achieve a minimum wet mil coating thickness as required by the manufacturer.

Install fiberglass reinforcement immediately into wet base coat. Extend reinforcement up vertical surfaces a minimum of 8" and out onto horizontal surfaces 4". Install according to manufacturer's written instructions.

Lap adjacent flashing pieces of fiberglass no less than 3". Roll the surface of the fiberglass to completely embed it into the wet base coat.



Prime all metal surfaces with M-Prime.



The fiberglass reinforcement must be backrolled to ensure material saturates through the reinforcement.



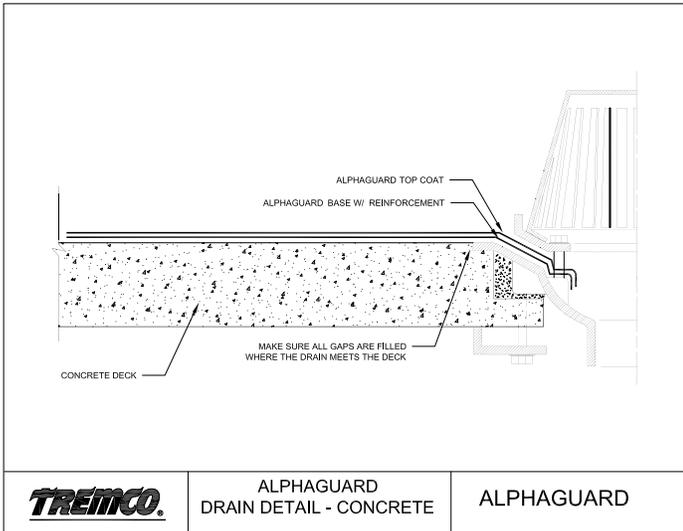
Tape all edges to provide a straight line for all flashing details.



Fiberglass must be fully encapsulated in base coat without pin holes, voids, or openings.

ROOF DRAINS

Remove drain strainer and clamping ring.
Remove all rust and debris from the surface of drain bowl. If necessary use a grinder to sand metal surfaces down to clean, bare, metal.



Prime metal surfaces with AlphaGuard M-Prime.

Install base coat onto surrounding concrete deck and metal drain bowl flange. Install a target piece of reinforcement immediately into the wet base coat and roll to fully embed/saturate the material.

After top coat has been installed re-install drain clamping ring and strainer. Replace broken drain ring clamping bolts if necessary.

FLASHING DETAILS

All details are to be completed before the field of the roof. Apply the basecoat to the walls, penetrations and curbs before the field of the roof. After the field of the roof has been completed with basecoat, apply the topcoat to the walls, penetrations and curbs, followed by the field of the roof.

Parapet Walls & Coping Walls:

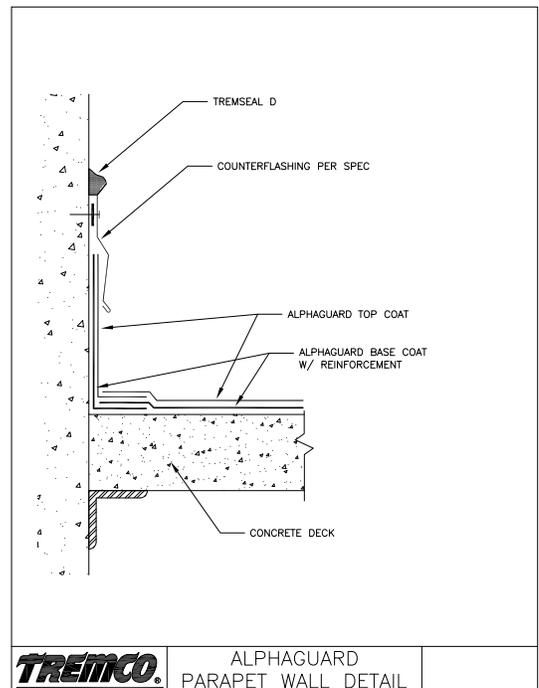
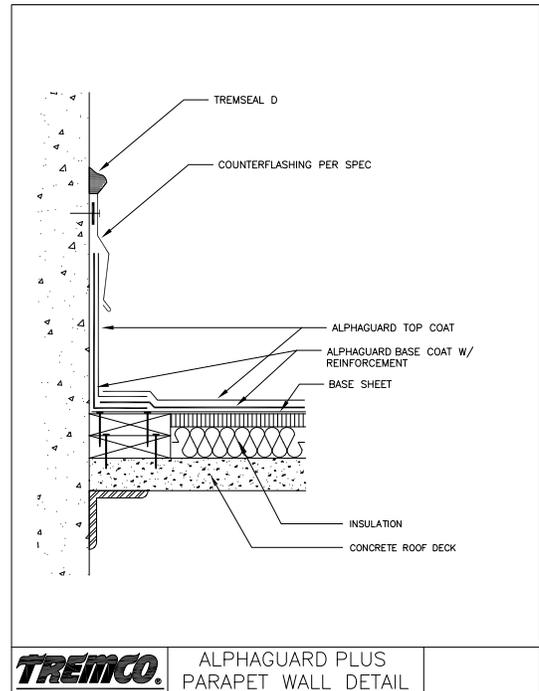
Before flashing a wall, be sure that the wall is properly cleaned and primed as appropriate. Ensure that the wall is of sound construction before flashing.

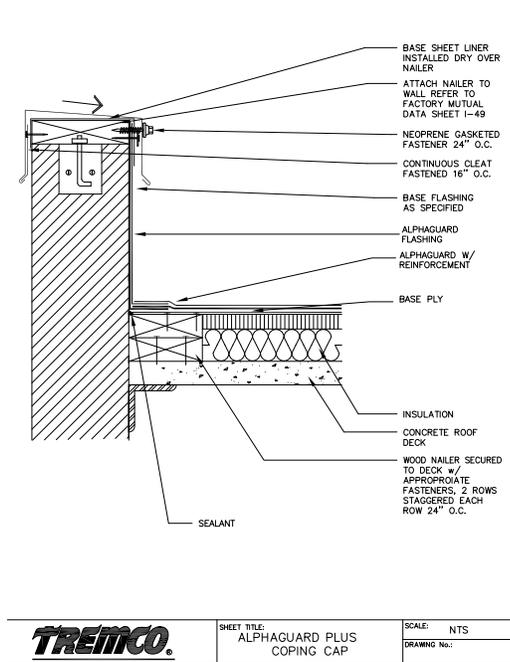
Once substrates are appropriately cleaned and prepared, apply base coat to the substrate, at the required mil thickness. The base coat should only be applied to the area that you intend to embed the reinforcement into at any given time. Using a roller or brush, fully saturate the reinforcement, working from the center outwards.

The AlphaGuard material should extend 8" above the roof substrate, per NRCA recommendations. The toe of the flashing should extend 4" onto the roof substrate, allowing for an adequate surface to lap the AlphaGuard field base coat onto the roof substrate, per NRCA recommendations. The toe of the flashing must extend a minimum 4" onto the roof substrate, allowing for adequate surface for the AlphaGuard field base coat to lap.

When encountering a corner, the reinforcement should wrap by 3-4" and be fully embedded into the AlphaGuard base coat. Using a brush, work the reinforcement into the corner. It may be necessary to make relief cuts to form tightly.

Inspect the wall and corners for any pinholes or unsaturated areas. If any areas exist, reapply a small amount of AlphaGuard base coat until areas are fully saturated.





Wood or Solid Curbs:

Once substrates are appropriately cleaned and prepared, apply AlphaGuard base coat to the substrate, at the required mil thickness. The base coat should only be applied to the area that you intend to embed the reinforcement into at any given time. Using a roller or brush, fully saturate the reinforcement, working from the center outwards.

The AlphaGuard material should extend 8" above the roof substrate, per NRCA recommendations. The toe of the flashing should extend 4" onto the roof substrate, allowing for an adequate surface to lap the AlphaGuard field base coat to lap.

When encountering a corner, the reinforcement should wrap by 3-4" and be fully embedded into the AlphaGuard base coat. Using a brush, work the reinforcement into the corner. It may be necessary to make relief cuts to form tightly.

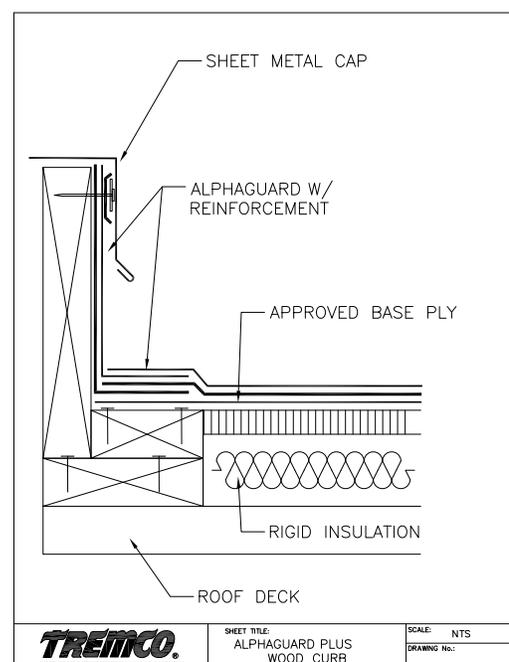
Inspect the curb and corners for any pinholes or unsaturated areas. If any areas exist, reapply a small amount of AlphaGuard base coat until areas are fully saturated.

Insulated Curbs:

Before flashing an insulated curb with AlphaGuard, one ply of specified base ply must be set in specified adhesive over the curb wall and onto the field of the roof. Remove excess adhesive at laps and allow to cure overnight.

Once the adhesive has cured, AlphaGuard can be applied directly to the base ply. The AlphaGuard material should extend above the base ply by at least 1". The toe of the flashing should extend 4" onto the roof substrate, allowing for an adequate surface to lap the AlphaGuard field base coat.

When encountering a corner, the reinforcement should wrap by 3-4" and be fully embedded into the AlphaGuard base coat. Using a brush, work the reinforcement into the corner. It may be necessary to make relief cuts to form tightly. Inspect the curb and corners for any pinholes or unsaturated areas. If any areas exist, reapply a small amount of AlphaGuard basecoat until areas are fully saturated.



Soil Stacks, Pipe Penetrations and Pitch Pockets:

All penetrations should be properly prepared by grinding metal surfaces to a bright metal, removing asphalt residue and priming with the appropriate primers (see chart 1).

Once a penetration has been properly prepared, mark them at least 8" above the roof deck. Tape along these marks to ensure you have a clean, straight line.

On round penetrations, cut pieces to sizes that are manageable and tear the bottom edge, 2-3" from the edge. This will allow the reinforcement to conform to the pipe. Apply the AlphaGuard base coat and fully embed the reinforcement. The field base coat should extend over the toe of the flashing, to the base of the pipe. Once cured, the AlphaGuard top coat can be applied, followed by the field top coat. On square penetrations, cut pieces that are manageable. Cut the pieces to go 8" above the field of the roof and 4" onto the field of the roof. Apply the AlphaGuard base coat and fully embed the reinforcement. The field base coat should extend over the toe of the flashing, to the base of the pipe. Once cured, the AlphaGuard top coat can be applied, followed by the field top coat.



AlphaGuard as a flashing solution, is compatible with a variety of roofing systems.



Flashing pipes and stands are easy and seamless.



Penetrations on MB roof systems can be flashed with AlphaGuard as well.



Penetrations that previously needed pitch pockets are flashed with AlphaGuard. This eliminates possible points of water infiltration.

Internal Roof Drains:

Prior to applying AlphaGuard to a roof drain detail, inspect the drain bowl for cracks and holes. Grind the bowl to remove any residual roofing products or asphalt residue. The drain should have a clean, rust free surface.

For insulated roof systems, a base sheet adhered in approved adhesives should extend onto the drain bowl to the inside edge of the bowl. The transition from the insulation board to the drain bowl should be within 1/8" vertically and 1/8" horizontally. A tight fit is necessary at the areas.

For concrete decks, make sure that the gap between the deck and the drain bowl is 1/8" or less. For gaps greater than 1/8", a urethane sealant should be used to fill the void. Once the drain is prepared properly, the field base coat and reinforcement should be extended into the drain past where the ring meets the bowl and down into the bowl, followed by the top coat. Reinstall the drain bowl and basket once the material is completely cured.

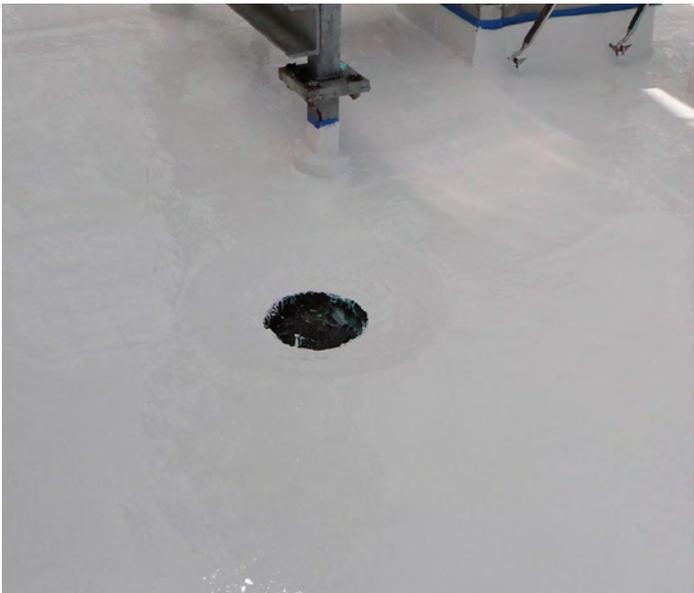
For restoration projects, make all necessary repairs to the existing drain detail. Ensure that the existing roofing material is adhered tightly to the drain bowl and abutting insulation. Once the drain is prepared properly, the field base coat and reinforcement should be extended into the drain past where the ring meets the bowl, followed by the top coat. Reinstall the drain bowl and basket once the material is completely cured.



For concrete and insulated systems, extend AlphaGuard into the drain bowl. Ensure that the drain bowl is prepared per requirements.



When flashing a drain, AlphaGuard will conform to the drain bowl, eliminating areas where water can penetrate.

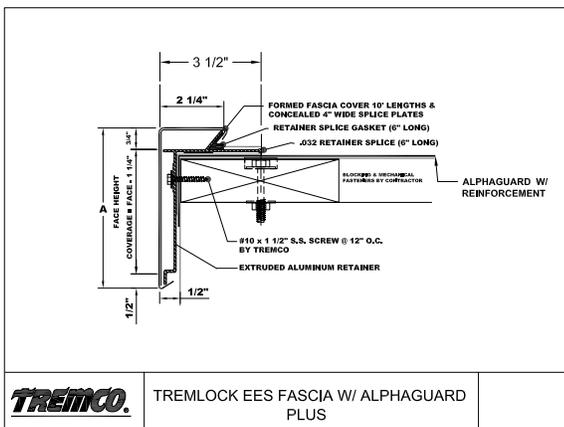
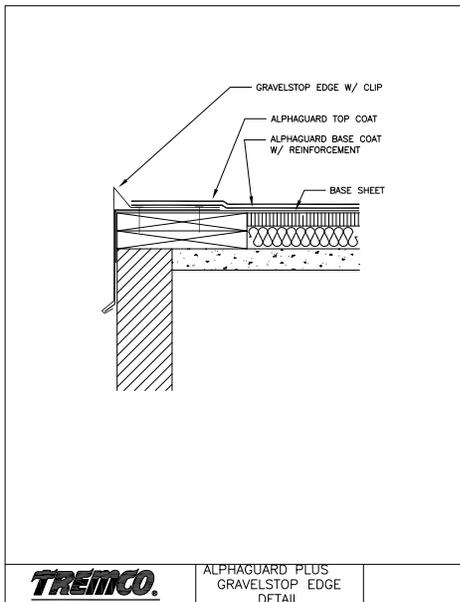


Completed drain detail.

Gutters & Metal Edge Details:

For pre-manufactured metal edge systems, such as TremLock EES, TremLock Fascia and TremLock Coping, follow the requirements of the detail drawings below.

For shop fabricated details, the metal edge or gutter should be installed after the base layer of AlphaGuard is applied. The metal edge should then be flashed in with a base coat of AlphaGuard with reinforcement embedded followed by a top coat of AlphaGuard. The AlphaGuard should extend the full length of the flange along with the reinforcement.



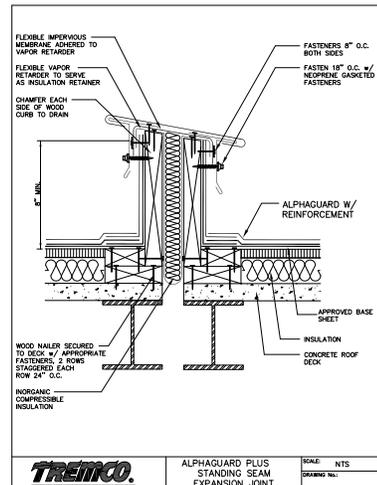
Expansion Joints:

Expansion joints would be flashed in the same manner as a wood curb. Once substrates are appropriately cleaned and prepared, apply AlphaGuard base coat to the substrate, at the required mil thickness. The base coat should only be applied to the area that you intend to embed the reinforcement into at any given time. Using a roller or brush, fully saturate the reinforcement, working from the center outwards.

The AlphaGuard material should extend 8" above the roof substrate, per NRCA recommendations. The toe of the flashing should extend 4" onto the roof substrate, allowing for an adequate surface to lap the AlphaGuard field base coat to lap.

When encountering a corner, the reinforcement should wrap by 3-4" and be fully embedded into the AlphaGuard base coat. Using a brush, work the reinforcement into the corner. It may be necessary to make relief cuts to form tightly.

Inspect the expansion joint and corners for any pinholes or unsaturated areas. If any areas exist, reapply a small amount of AlphaGuard base coat until areas are fully saturated. Once the AlphaGuard flashings are installed, a stainless steel or copper cap would be installed per Tremco specifications.



ALPHAGUARD APPLICATION DIRECT TO CONCRETE

Base coat and fiberglass reinforcement installation:

- Install base coat directly onto primed concrete surface and spread coating evenly according to Tremco's written instructions.
- Back roll to achieve a minimum wet mil thickness according to Tremco's written instructions.
- Install fiberglass reinforcement immediately into wet base coat. Roll surface of fiberglass to fully embed into wet base coat. Roll until fully saturated.
- Lap adjacent rolls of glass mat no less than 3". End laps shall be no less than 6".
- Lap onto flashing no less than 3".
- Roll the surface of the fiberglass to completely embed into the wet base coat.
- Allow base coat to cure a before installing top coat.
- Fiberglass reinforcement must be fully encapsulated in base coat and not contain pin holes, voids, or openings.

Top coat installation for field of roof and flashings:

- Priming of the base coat may be required if top coat is not applied within 72 hours of the base coat application. The base coat shall be lightly primed with manufacturer's recommended primer.
- Install top coat on flashings first. Extend coating up vertical surfaces a minimum of 8 " and out onto horizontal surfaces.
- Install top coat directly over field base coat and spread coating evenly according to manufacturer's written instructions.
- Back roll to achieve a minimum wet mil thickness according to manufacturer's written instructions.

- Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

ALPHAGUARD NON-SKID WALKWAY APPLICATION

1. Ensure areas are clean, dry, free of debris/contaminants, etc. prior to application.
2. Use tape to mask off the non-skid walkway area.
3. (Optional) Color Striping - Color striping can be installed along the perimeter of non-skid walkway applications as a means to identify the areas on the roof surface. If requested, mask off a 3-4" wide area along the perimeter of the walkway area for installation of color striping.
4. If the previously installed system has cured and been exposed for more than 72 hours, an application of Geogard Primer will be required prior to application.
5. Install an additional layer of top coat in desired color or white at 1-1½ gal / 100 sq. ft. (16-24 wet mils) to properly prepared walkway area. NOTE: AlphaGuard BIO walkways must be installed in white top coat. Color striping can be used to designate these areas if required.
6. Broadcast an approved non-skid media in to wet top coat.

Approved Non-Skid Media:

- Silica Sand (20-40 mesh) - Coverage: 20-30 lbs. / 100 sq. ft.
 - No. 11 Roofing Granule - Coverage: 10-15 lbs. / 100 sq. ft.
7. Immediately back roll completed area with a dry nap roller, creating an even dispersal of non-skid media.
 8. (Optional) Color Striping - Install like product color top coat at 1-1½ gal / 100 sq. ft. (16-24 wet mils) to properly prepared 3-4" wide color stripe areas.
 9. Immediately remove tape following applications.
 10. Once cured, use a blower to remove any loose granules from the roofing surface.

Note: Install all products per the manufacturer's written instructions. See product data sheets and installation manuals for product specific information and recommended coverage rates.

ALPHAGUARD PLUS APPLICATION INSULATED SYSTEMS

BURmastic Roof System Installation:

- Install roof insulation.
- Plan placement of roofing base ply system to ensure that water flows over or along, but not against exposed edges.
- Starting at the low point of the roof, embed approved ply sheets in a uniform, continuous application of approved adhesive.
- Ply shall never touch ply.
- Apply adhesive at specified coverage rates

Base coat and fiberglass reinforcement installation:

- Install base coat directly onto approved ply sheet and spread coating evenly according to Tremco's written instructions.
- Back roll to achieve a minimum wet mil thickness according to Tremco's written instructions.
- Install fiberglass reinforcement immediately into wet base coat. Roll surface of fiberglass to fully embed into wet base coat. Roll until fully saturated.
- Lap adjacent rolls of glass mat no less than 3". End laps shall be no less than 6".
- Lap onto flashing no less than 3".
- Roll the surface of the fiberglass to completely embed into the wet base coat.
- Allow base coat to cure before installing top coat.
- Fiberglass reinforcement must be fully encapsulated in base coat and not contain pin holes, voids, or openings.

Top coat installation for field of roof and flashings:

- Priming of the base coat is required if top coat is not applied within 72 hours of the base coat application. The base coat shall be lightly primed with manufacturer's recommended primer.
- Install top coat on flashings first. Extend coating up vertical surfaces a minimum of 8 " and out onto horizontal surfaces.
- Install top coat directly over field base coat and spread coating evenly according to manufacturer's written instructions.
- Back roll to achieve a minimum wet mil thickness according to manufacturer's written instructions.
- Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

WALKWAY INSTALLATION

Refer to page 27

ALPHAGUARD APPLICATION RESTORATION

Base coat and fiberglass reinforcement installation:

- Prime with required primer (see chart 1) and install base coat onto approved substrate, spread coating evenly according to Tremco's written instructions.
- Back roll to achieve a minimum wet mil thickness according to Tremco's written instructions.
- Install fiberglass reinforcement immediately into wet base coat. Roll surface of fiberglass to fully embed into wet base coat. Roll until fully saturated.
- Lap adjacent rolls of glass mat no less than 3". End laps shall be no less than 6".
- Lap onto flashing no less than 3".
- Roll the surface of the fiberglass to completely embed into the wet base coat.
- Allow base coat to cure a before installing top coat.
- Fiberglass reinforcement must be fully encapsulated in base coat and not contain pin holes, voids, or openings.

Top coat installation for field of roof and flashings:

- Priming of the base coat is required if top coat is not applied within 72 hours of the base coat application. The base coat shall be lightly primed with manufacturer's recommended primer.
- Install top coat on flashings first. Extend coating up vertical surfaces a minimum of 8 " and out onto horizontal surfaces.
- Install top coat directly over field base coat and spread coating evenly according to manufacturer's written instructions.
- Back roll to achieve a minimum wet mil thickness according to manufacturer's written instructions.
- Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

WALKWAY INSTALLATION

Refer to page 27

INSPECTION & REPAIR

Final Inspection

Arrange for roofing system manufacturer's technical personnel to inspect the fluid-applied membrane on completion. Prior to manufacturer's final inspection the contractor shall examine the completed work for the following deficiencies:

Inspect completed Top Coat installation for pin holes, voids, exposed base coat, exposed reinforcement, rough fiberglass, blisters, un-adhered material or any other deficiencies that could compromise waterproofing integrity and long term performance.

Correct deficiencies as follows:

Pin holes/voids/exposed base coat or reinforcement:

1. Install Geogard Primer over Top Coat at a coverage rate of 1 gal/500 sf. Allow to dry.
2. Install new Top Coat at a coverage rate of 2 gal/100 sf.

Rough fiberglass reinforcement:

1. Sand or grind fiberglass reinforcement down flush to surrounding Base Coat surface.
2. Install Geogard Primer over area at a coverage rate of 1 gal/600 sf. Allow to dry.
3. Install new Top Coat at a coverage rate of 2 gal/100 sf.

Blisters/un-adhered Top Coat:

1. Cut out and remove loose coating.
2. Remove moisture if present.
3. Install Geogard Primer over area at a coverage rate of 1 gal/500 sf. Allow to dry.
4. Install new Top Coat at a coverage rate of 2 gal/100 sf.

Repair & Maintenance

The fluid-applied membrane does not require additional surfacing or coatings for the duration of the warranty service life. However, the following preventive maintenance and general rooftop housekeeping procedures should be performed on a regular basis:

Inspect the fluid-applied membrane for physical damage such as punctures, splits, or tears.

Inspect flashing components and details for openings that could allow moisture entry.

Inspect rooftop for debris on the membrane and around drains. Remove debris and ensure all drain strainers are clear.

Dirt and debris that has accumulated on the roof surface can be removed to preserve the surfaces solar reflectivity. Remove dirt and debris with a solution of soap and water.

Dispose of rinse water according to local environmental regulations.

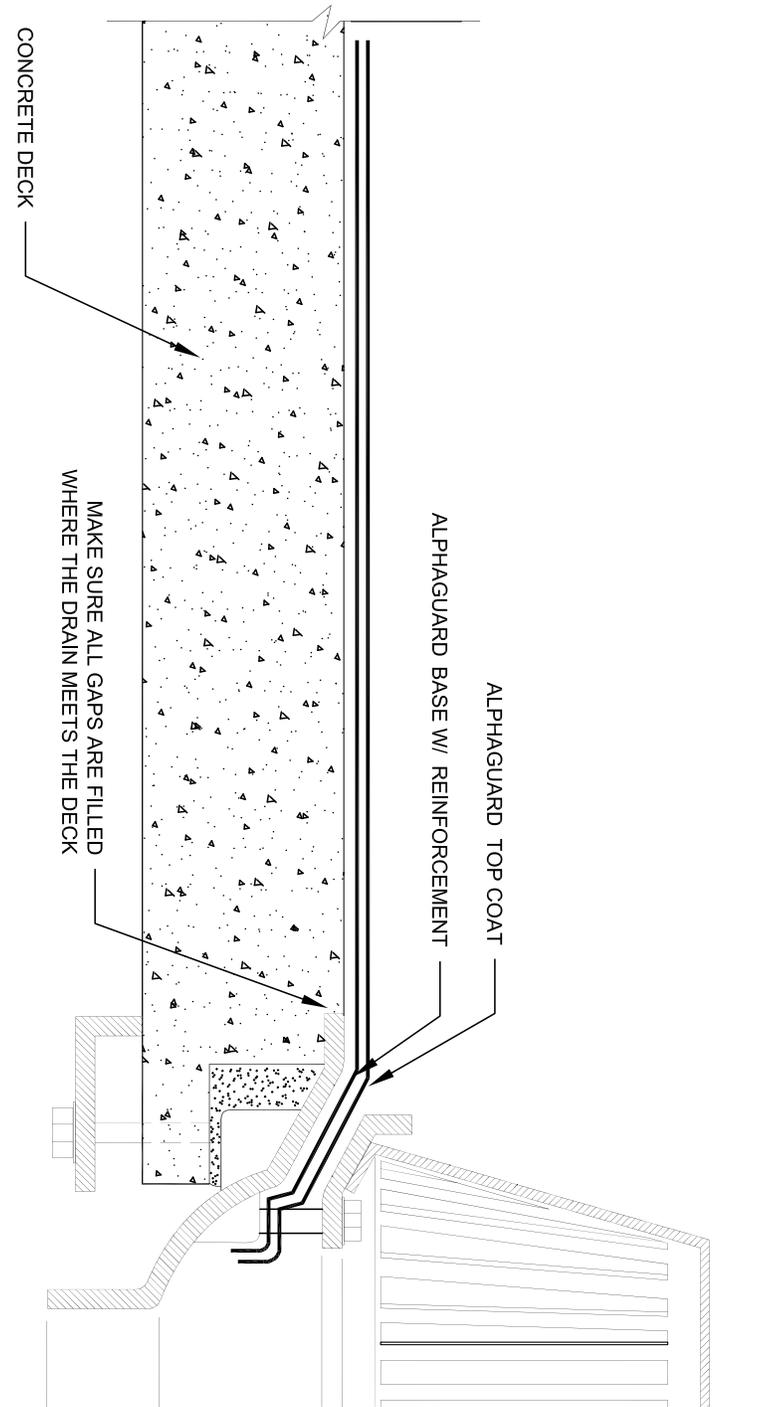
Repair & Maintenance

If inspection reveals that repairs are needed in the membrane or flashings follow these general guidelines:

Punctures/splits/tears:

1. Clean surface of membrane with soap and water. Let dry.
2. Install Geogard Primer over defective area at a coverage rate of 1 gal/500 sf.
3. Install Base Coat over defect at a coverage rate of 3 gal/100 sf and install reinforcement into wet material.
4. Ensure that reinforcement is completely saturated and does not contain pin holes or voids.
5. Once Base Coat is dry install Top Coat at a coverage rate of 2 gal/100 sf.

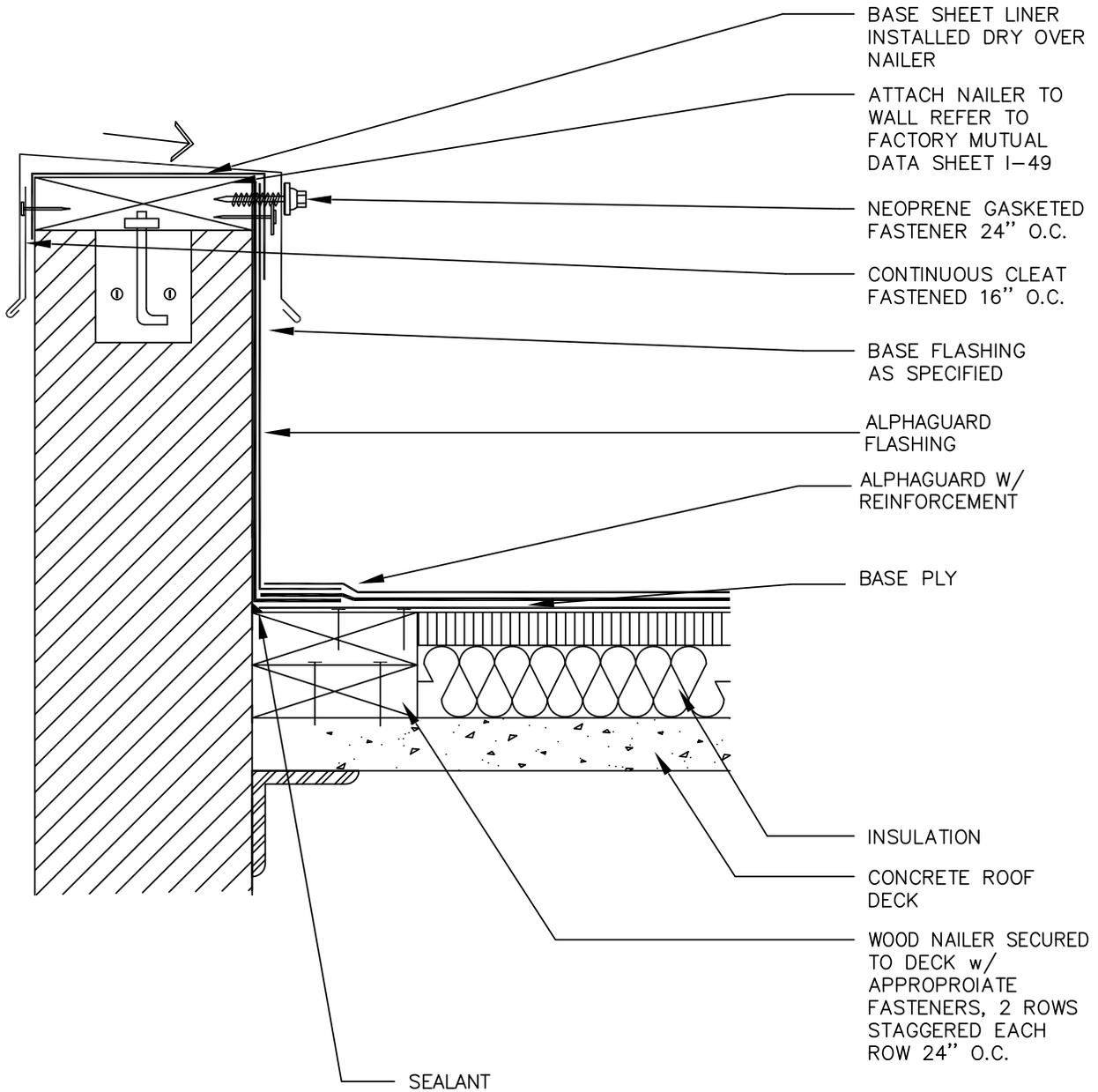
Detail Drawings



TREMO

ALPHAGUARD MT
DRAIN DETAIL - CONCRETE

ALPHAGUARD

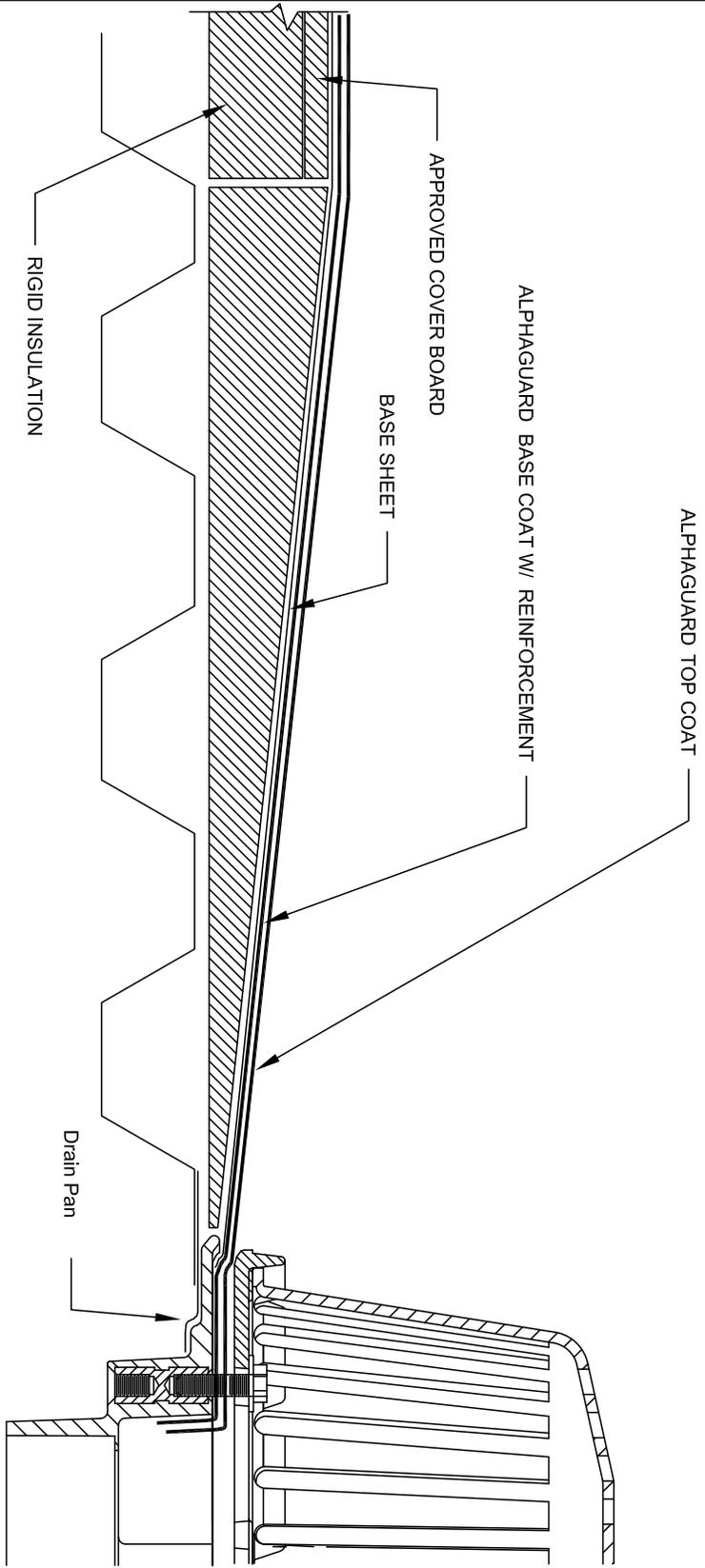


TREMCO[®]

SHEET TITLE:
ALPHAGUARD PLUS
COPING CAP

SCALE: NTS

DRAWING No.:



	<p>ALPHAGUARD PLUS DRAIN DETAIL - RIGID INSULATION</p>	<p>ALPHAGUARD</p>
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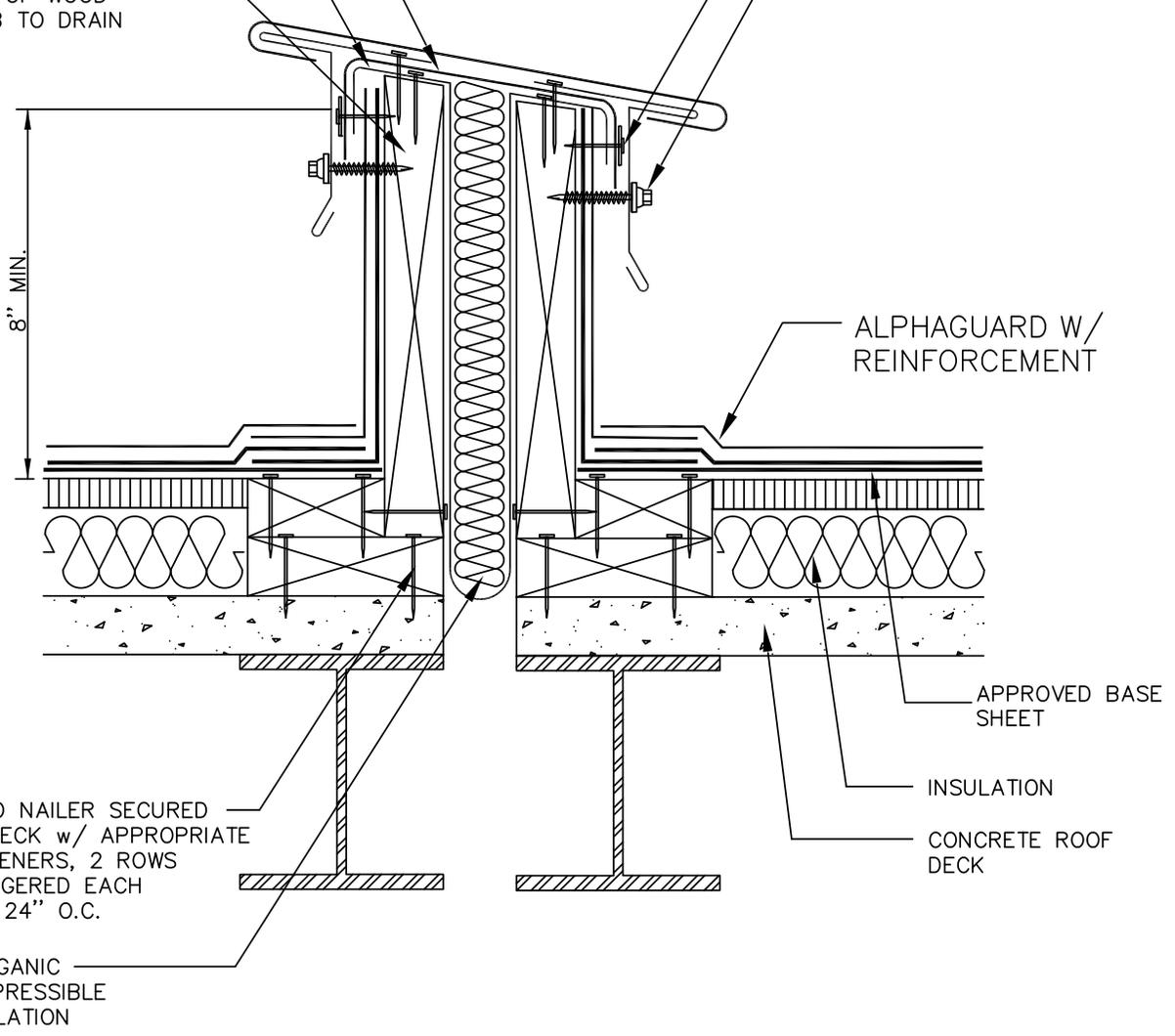
FLEXIBLE IMPERVIOUS
MEMBRANE ADHERED TO
VAPOR RETARDER

FLEXIBLE VAPOR
RETARDER TO SERVE
AS INSULATION RETAINER

CHAMFER EACH
SIDE OF WOOD
CURB TO DRAIN

FASTENERS 8" O.C.
BOTH SIDES

FASTEN 18" O.C. w/
NEOPRENE GASKETED
FASTENERS



WOOD NAILER SECURED
TO DECK w/ APPROPRIATE
FASTENERS, 2 ROWS
STAGGERED EACH
ROW 24" O.C.

INORGANIC
COMPRESSIBLE
INSULATION

ALPHAGUARD W/
REINFORCEMENT

APPROVED BASE
SHEET

INSULATION

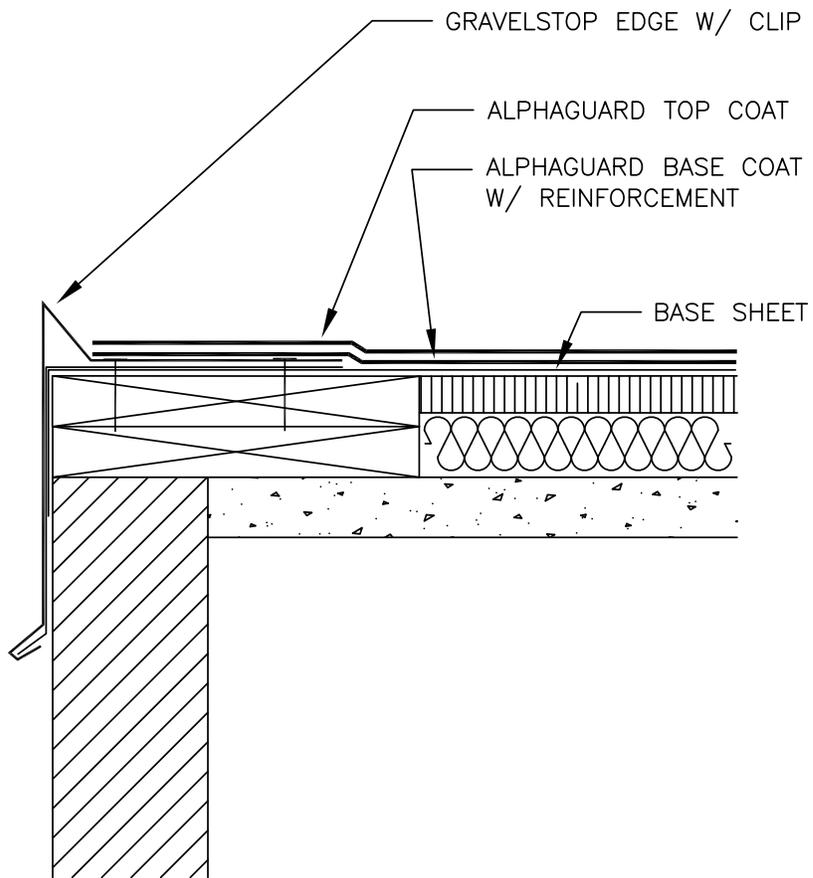
CONCRETE ROOF
DECK

TREMCO®

ALPHAGUARD PLUS
STANDING SEAM
EXPANSION JOINT

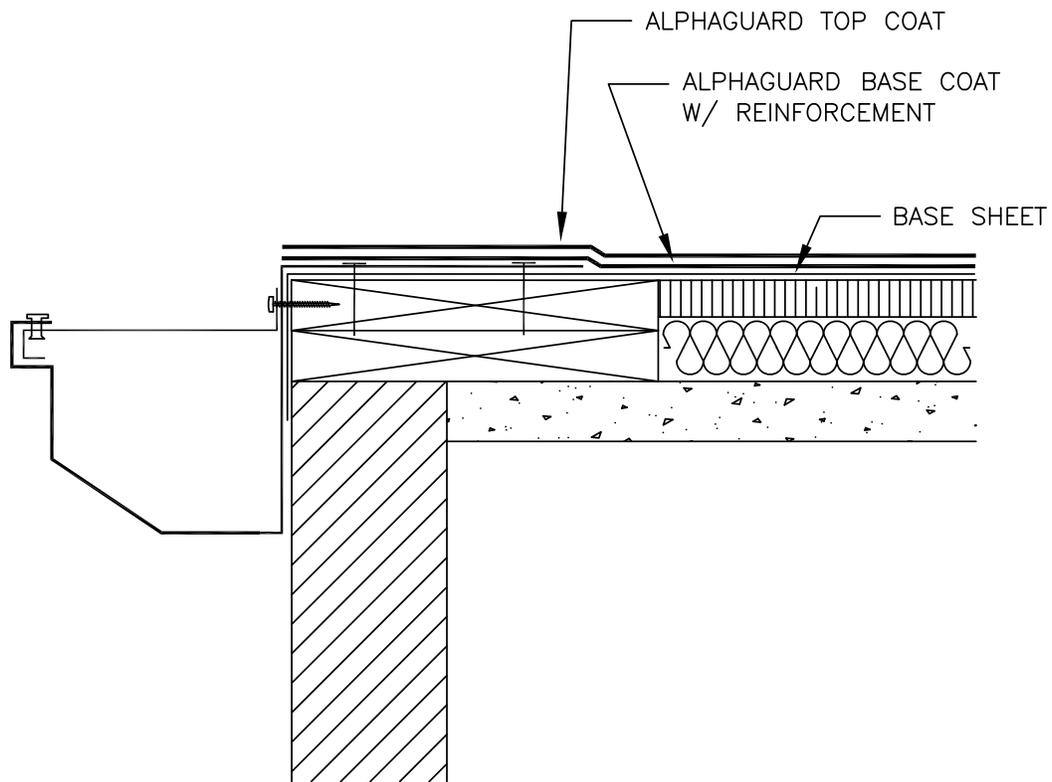
SCALE: NTS

DRAWING No.:



TREMCO[®]

ALPHAGUARD PLUS
GRAVELSTOP EDGE
DETAIL

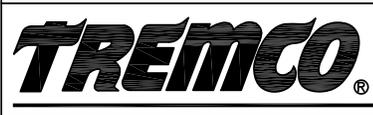
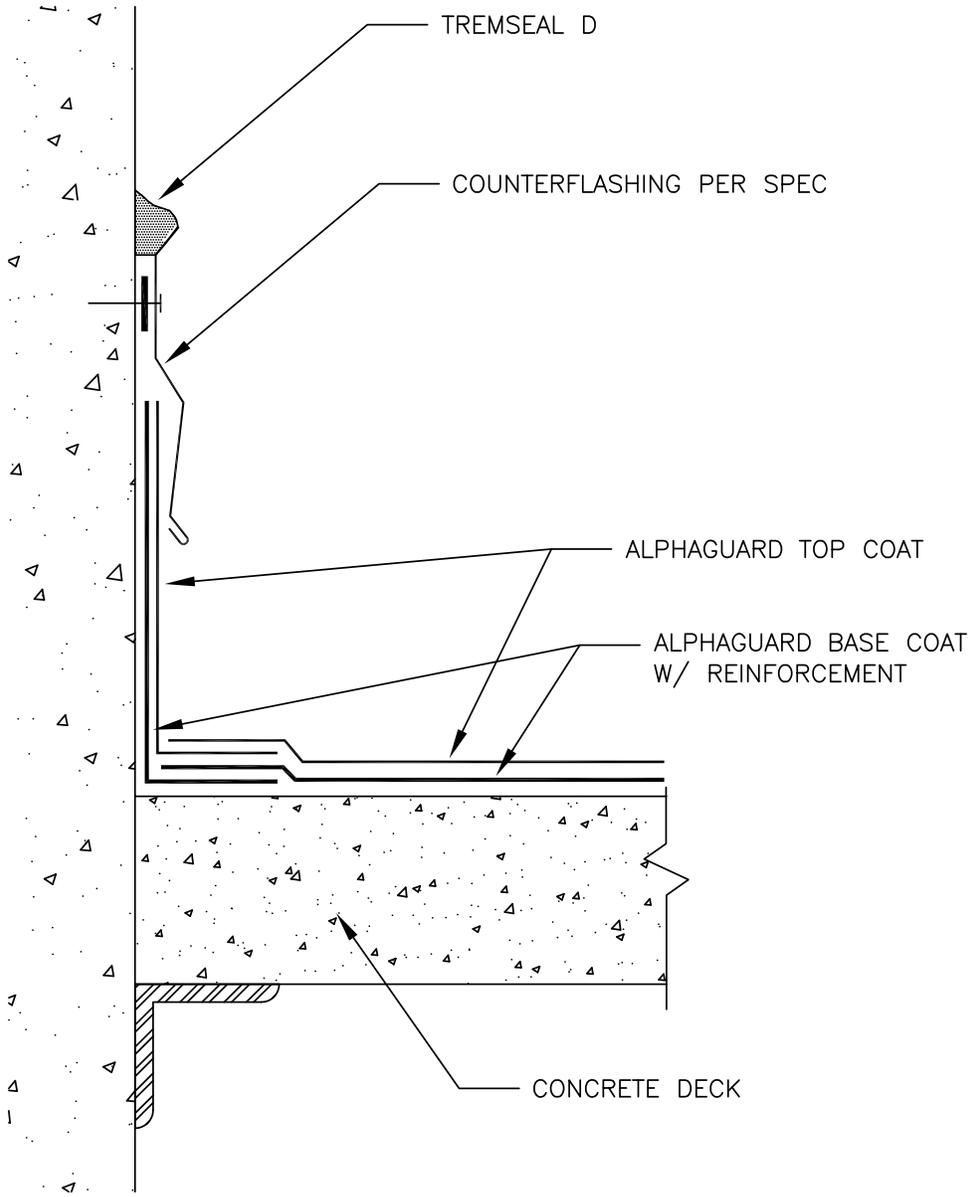


NOTES :

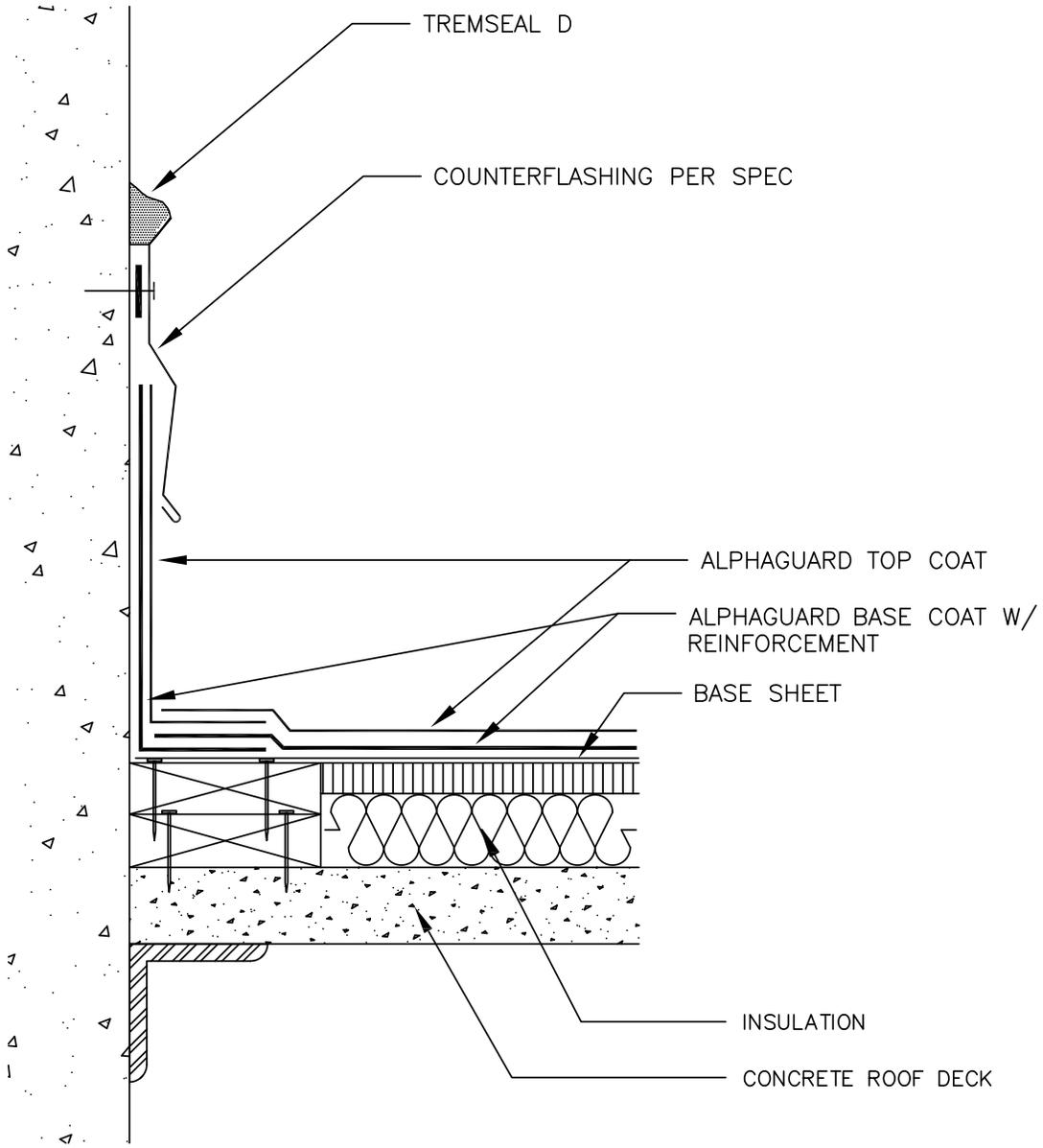
1. SLOPE GUTTER TO DOWNSPOUTS 1/4" PER 1' MINIMUM.

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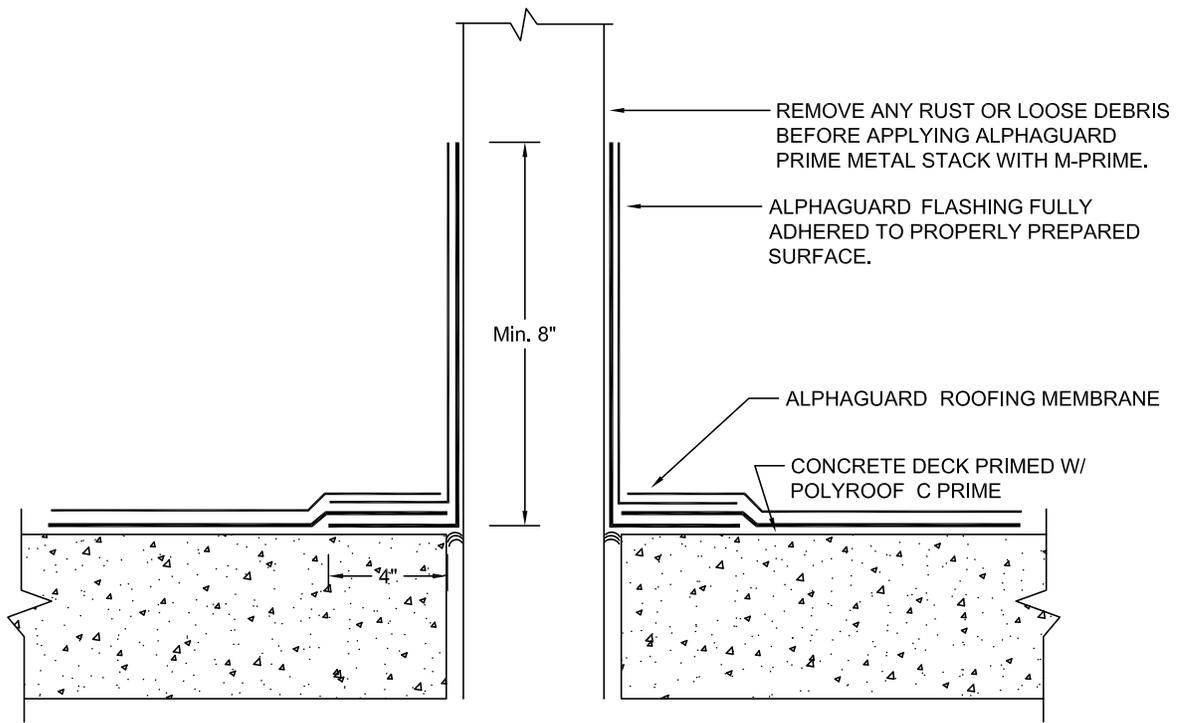
ALPHAGUARD PLUS
GUTTER EDGE DETAIL



ALPHAGUARD
PARAPET WALL DETAIL



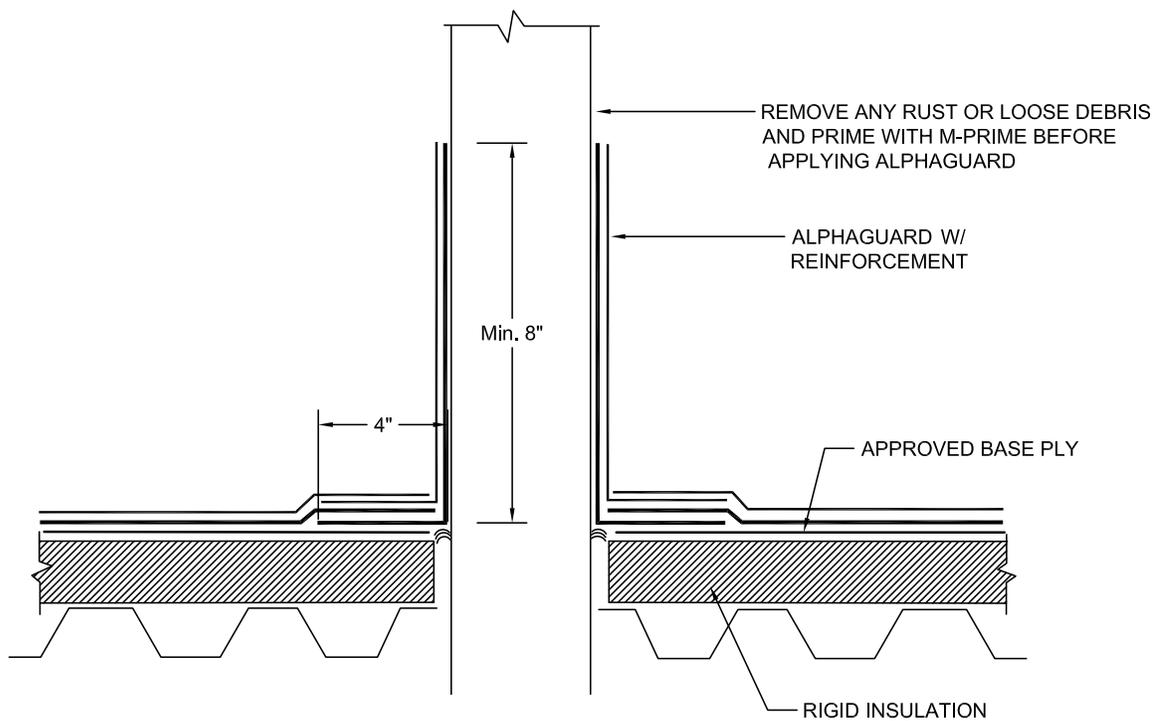
ALPHAGUARD PLUS
PARAPET WALL DETAIL



ALPHAGUARD

ROOF PENETRATION - FULLY ADHERED TO CONCRETE DECK

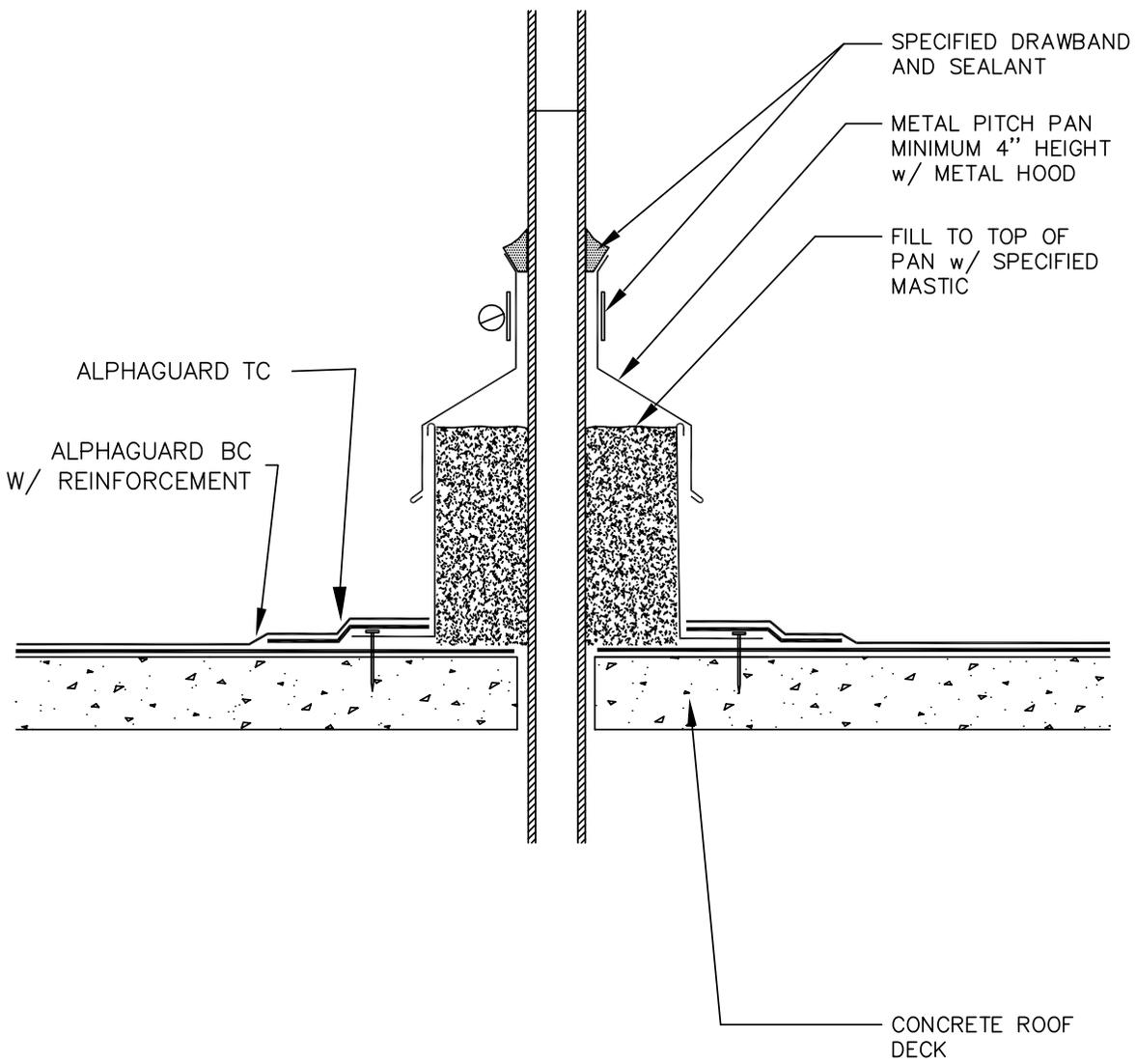
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ROOF PENETRATION - METAL
DECK W/ RIGID INSULATION

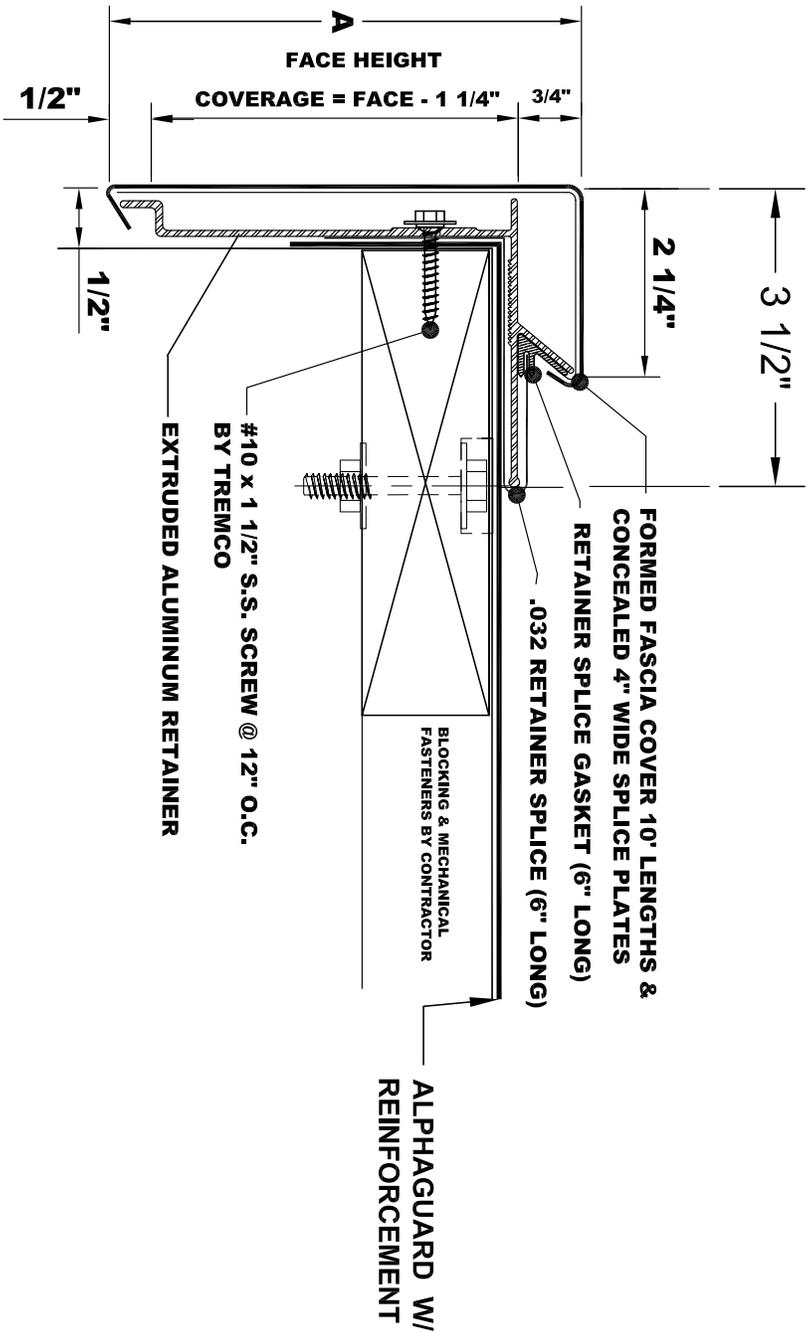
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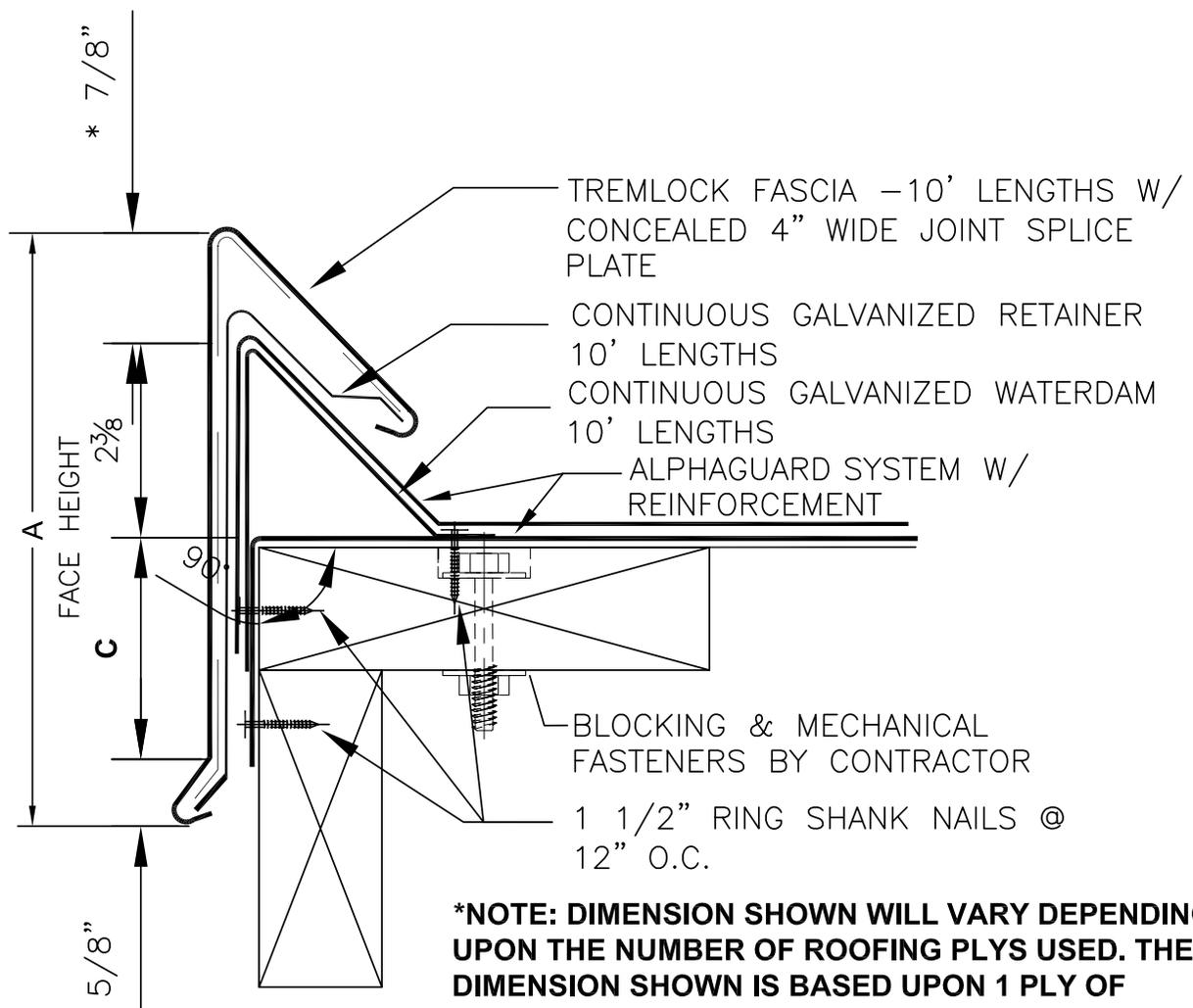
SHEET TITLE:
ALPHAGUARD PITCH POCKET

SCALE: NTS
DRAWING No.:



TREMCO[®]

TREMLOCK EES FASCIA W/ ALPHAGUARD PLUS

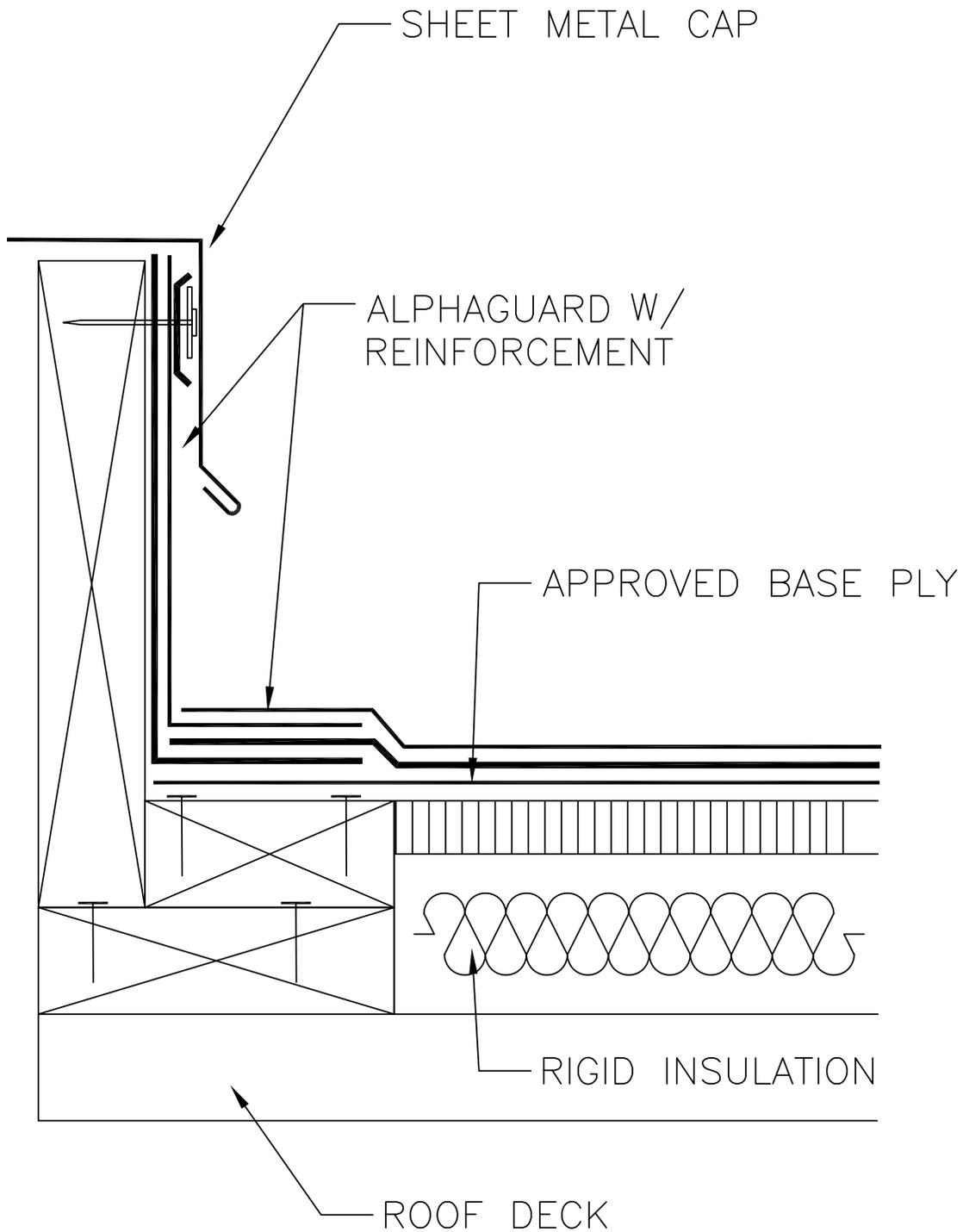


***NOTE: DIMENSION SHOWN WILL VARY DEPENDING UPON THE NUMBER OF ROOFING PLYS USED. THE DIMENSION SHOWN IS BASED UPON 1 PLY OF ROOFING.**



SHEET TITLE:
TREMLOCK FASCIA W/ ALPHAGUARD PLUS

SCALE: NTS
DRAWING No.:



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SHEET TITLE:
ALPHAGUARD PLUS
WOOD CURB

SCALE: NTS
DRAWING No.:

To learn more about how the AlphaGuard BIO and MTS solutions can restore your roof quickly while potentially helping to reduce your energy usage, contact your local Tremco Roofing & Building Maintenance sales representative today. Visit us at tremcroofing.com/find-a-rep or call us at:

USA 800.852.6013

CAN 800.668.9879



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