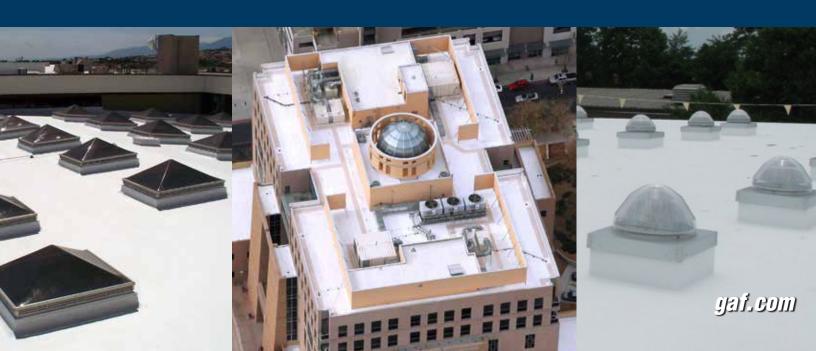


HYDROSTOP®

PREMIUMCOAT® LIQUID-APPLIED ROOFING

Application & Specifications Manual



HydroStop® PremiumCoat®

Liquid-Applied Roofing Application & Specifications Manual

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Thank you for consulting Version 1.2 of the *HydroStop® PremiumCoat® Liquid-Applied Roofing Application & Specifications Manual*. This Manual contains the latest information relating to the application of GAF's HydroStop® PremiumCoat® liquid-applied roofing systems, and is based on our years of experience in the commercial roofing field. It has been prepared as a general guide to assist architects, engineers, roofing contractors, and owners in the use of our liquid-applied roofing systems. You can find further information at www.gaf.com, or contact GAF Technical Services at 1-800-ROOF-411 (1-800-766-3411).

ABOUT GAF

As North America's largest roofing manufacturer, GAF proudly offers a comprehensive portfolio of award-winning, innovative roofing products for both residential and commercial properties. Supported by an extensive national network of factory-certified contractors, GAF has built its reputation—and its success—on its steadfast commitment to Advanced Quality, Industry Expertise, and Solutions Made Simple.

GAF offers all major low-slope roofing technologies, including repair and maintenance products and roof restoration systems, as well as new roofing systems (BUR, modified bitumen, TPO, PVC, and liquid-applied systems). GAF has developed low slope roofing systems with excellent durability and high reflectivity to meet the most rigorous industry standards while helping commercial property owners and designers reduce energy consumption.

For more information about GAF, visit us at www.gaf.com.

SERVICES

- Every GAF roofing product benefits from the substantial resources available only from a multibillion-dollar corporation dedicated to roofing. Our 31 plants mean manufacturing expertise. Our extensive R&D organization means a constant focus on product and process improvement. GAF is a team of over 3,000 people dedicated to your roofing satisfaction.
- GAF has a network of sales representatives and distributors to supply and service its quality roofing systems throughout North America.
- Our Technical Helpline is a technical assistance service that allows you to contact us directly to speak with a technical representative about specifications, applications, code approvals, and product information. The Helpline number is 1-800-ROOF-411 (1-800-766-3411).
- Architectural Information Services (AIS) is a specification service that allows you to specify your
 exact roofing needs and we will send you a general specification that outlines your job summary,
 application method, product description, and detail drawings based on the information you
 provided. The phone number for AIS is 1-800-522-9224.
- Our Tapered Design Group (TDG) is one of the many services available to our customers to help reduce their hassles. We provide tapered insulation take-offs for architects, contractors, and distributors nationwide. Just send your roof plans and specifications to tdg@gaf.com. The phone number for TDG is 1-800-766-3411.
- Visit GAF on the web at www.gaf.com for extensive product information, specifications, and technical literature.

DISCLAIMER

- GAF manufactures and sells roofing materials and does NOT practice architecture or engineering. GAF is NOT responsible for the performance of its products when damage to its products is caused by such things as improper building design, construction flaws, or defects in workmanship.
- The design responsibility remains with the architect, engineer, roofing contractor, or owner, and construction details illustrated and described herein are furnished solely for guidance purposes.
 These guidelines should not be construed as being all-inclusive, nor should they be considered as a substitute for good application practices.
- Under no circumstances does GAF have any liability for costs or expenses arising out of or associated with the pre-existing presence of asbestos-containing materials or any other allegedly hazardous substances or materials on the roof to which the new GAF roofing materials are being applied.
- Information contained in this Manual is presented in good faith and, to the best of GAF's knowledge, does not infringe upon any patents, foreign or domestic.
- As a part of its continuing efforts to improve the performance of its products, GAF periodically
 makes changes to its products and application specifications. GAF reserves the right to change
 or modify, at its discretion, any of the information, requirements, specifications, or policies
 contained herein. This Manual supersedes all catalogs and previous Manuals.

GENERAL DESIGN CONSIDERATIONS

HOW TO DETERMINE IF A ROOF IS A GOOD CANDIDATE FOR COATING

When installed on a new roof, a roof coating should:

- Be a component part of the larger warranted roofing system. This will ensure compatibility with the system and enhance overall performance of the system.
- Be installed after the roof has weathered as necessary. Weathering periods may vary depending upon the type of system to which the coating will be applied. Use of a primer may also be required for certain substrates to ensure adequate adhesion.

When installed on an existing roof, a roof coating should:

- Be compatible with the existing roof.
- Extend the remaining service life of the existing roof. Although a coating cannot add life back to a roof already beyond its service life, it can prevent a roof from aging as quickly as it would without the coating.
- Only be applied to a roof that drains properly. Some coatings may be adversely affected by the presence of ponding water. Therefore, areas of the existing roof that pond water should be repaired prior to coating.
- Only be applied to non-leaking roofs. While coatings may help seal some pinhole leaks not visible to the naked eye, they will not generally find and repair existing leaks. Accordingly, existing roof leaks will need to be identified and repaired prior to coating. (Allow repairs to fully dry prior to coating.)

NOTE: When coating over an existing roof coating or an existing coal tar pitch roof, contact GAF Technical Services at 1-800-ROOF-411 (1-800-766-3411).

Section 1 Guides

Product Guide

					% Collide by
Туре	Product	Description	Base/Cure	(g/L)	% solids by Volume
	Acrylex 400 Primer	Water-Based Acrylic Rust-Inhibiting Primer For Metal	Water-Based	<50	36
	Adhere-It® II Primer	Water-Based Rinsable Primer For EPDM	Water-Based	n/a	n/a
	CleanAct Rinsable Primer	Water-Based Rinsable Primer For EPDM	Water-Based	n/a	n/a
;k	Epoxy Primer (formerly Uniseal Primer)	Water-Based Epoxy Primer For Concrete and Porous Substrates	Water-Based	<120	10
, Cleane	Lock-Down Primer	Moisture-Cure Urethane Primer For Corrosion Protection On Metal Surfaces	Moisture-Cure	<420	55
 8	StableRust Primer	Water-Based Acrylic Rust-Inhibiting Primer	Water-Based	<200	26
əmin	SureBond Primer	Water-Based Acrylic Primer For Chalky Surfaces	Water-Based	<200	23
d	TPO Red Primer	Solvent-Based Primer For TPO Roofs	Solvent-Based	<50	1
	UniBase Primer	Water-Based Acrylic Penetrating Primer And Asphalt Bleed Blocker	Water-Based	<50	40
	XR-2000 Primer	Water-Based Acrylic Primer For Kynar Coated Metal	Water-Based	< 170	40
	United Cleaning Concentrate (UCC)	Water-Based Roof, Wall and Deck Surface Cleaner	Water-Based	n/a	n/a
	HydroStop® BarrierGuard® Waterproofing	Primer For Concrete and Waterproofing	Water-Based	<50	39
hooA nits	HydroStop® PremiumCoat®Finish Coat	Water-Based Acrylic Top Coat	Water-Based	<50	52
	HydroStop® PremiumCoat® Foundation Coat	Water-Based Acrylic Base Coat	Water-Based	<50	52
	FlexSeal™ Caulk Grade Sealant	Elastomeric Sealant	Solvent-Based	<300	n/a
ıS et	FlexSeal™ Sealant	Self-Leveling Elastomeric Sealant	Solvent-Based	<300	99
	HydroStop® PremiumCoat® Butter Grade Flashing	Water-Based Acrylic Flashing	Water-Based	<50	58
ossə eəs "i	HydroStop® PremiumCoat® Fabric	Stitch-Bonded Polyester Reinforcement	n/a	n/a	n/a
	United Coatings™ UniCap Fastener Cover	Self-Adhering Butyl Aluminum Caps For Fasteners	n/a	n/a	n/a
Plas	HydroStop® Hydrofiber Bulking Agent	Glass Fiber Bulking Agent	n/a	n/a	n/a
	United Coatings™ UniTape Seam Tape	Self-Adhering Butyl Non-Woven Polyethylene Seam Tape	n/a	n/a	n/a

Cleaner & Primer Guide

	Substrate	Cleaner*	Primer	Application Rates
			Acrylex 400	0.33-0.67 gal /100 sf (1.4-2.7 L / 10 sq m)
	Rusty Metal	YES	or StableRust	0.33-0.50 gal / 100 sf (1.4-2 L / 10 sq m)
Metal	Severe Rusty Metal	YES	Lock-Down Primer	0.25 gal /100 sf (1 L / 10 sq m)
	Kynar Coated Metal	YES	XR-2000	0.75 gal /100 sf (3.1 L / 10 sq m)
	Residual Asphalt	YES	UniBase	0.50-1.0 gal /100sf (2-4 L / 10 sq m)
Asphaltic (BUR, SBS, APP)	Smooth Asphaltic	YES	UniBase	0.50-1.0 gal /100sf (2-4 L / 10 sq m)
Asph (BUR,	Granulated Asphaltic	YES	UniBase	0.50-1.0 gal /100sf (2-4 L / 10 sq m)
	TPO (new or aged)	YES	TPO Red Primer	0.50 gal/100 sf (2 L / 10 sq m)
e-PIy	PVC (aged)	YES	No Primer	n/a
Single-Ply	Hypalon (aged)	YES	No Primer	n/a
o,	EPDM	NO	Adhere-It II (or CleanAct)	0.2 gal/100sf (0.8 L / sq m)
		VEC	Epoxy Primer	0.33 gal/sq (1.4 L/10 m²)
_	Structural Concrete	YES	or BarrierGuard	0.5-1.0 gal/sq; (1.9 L-3.8 L/10 m²)
Other	Gypsum (DensDeck & SecuRock)	NO	No Primer	n/a
0	Polyisocyanurate (ISO)	NO	No Primer	n/a
	Existing Acrylic Coating	YES	No Primer	n/a
	Corrugated Structural Transite Panels	YES	Epoxy Primer	0.33 gal/sq (1.4 L/10 m²)

^{*}United Cleaning Concentrate required

NOTE: Existing silicone coating is not an acceptable substrate for HydroStop® PremiumCoat®.

Seam Treatment Guide

Substrate			Treatment
	Ribbed Seam		
		Standing Seam	
	Vertical Seams	Standing "T" Seam	Dutter Crede Fleeking
Metal	vertical Seams	Inverted "J" Seam	Butter Grade Flashing
ž		Corrugated Seam	
		Batten Seam	
	Hori	izontal Seams	Butter Grade w/Fabric or Foundation Coat w/Fabric
		ТРО	No Treatment
Single-Ply (if loose or split)		PVC	
Singl (if loose		Hypalon	No Treatment
	EPDM	No Treatment	
altic or split)	Smooth Asphaltic		No Treatment
Asphaltic (if loose or split)	Granulated Asphaltic		No Treatment
	Structural Concrete (non-structural cracks)		No Treatment
her	Polyisocyanurate (ISO)		Butter Grade w/Fabric or Foundation Coat w/Fabric
O	Gypsum (DensDeck & SecuRock)		Butter Grade w/Fabric or Foundation Coat w/Fabric
	Corrugated Structural Transite Panels		No Treatment
Re-Cover Assemblies	Contact GAF Technical Services at 1-800-766-3411		800-766-3411

Warranty Guide

	Emerald Pledge™ ¹		Diamond Pledge™¹		N ¹	
	10 yr	15 yr	20 yr²	10 yr	15 yr	20 yr²
HYDROSTOP: Who can offer Warranty?						
Authorized Contractors		No			No	
Master & Master Select Contractors	Yes	Yes No No			No	
Premium Contractors		Yes			Yes	
Requirements						
Moisture Survey for non-metal roofs		Yes		Yes		
Pre-Inspection/Approval	Yes, for jobs over 20,000 sq. ft. (1,858 sq m)		Yes, for jobs over 20,000 sq. ft. (1,858 sq m)			
Interim Inspection	Yes, for jobs over 10,000 sq. ft. (929 sq m)		Yes			
Final Inspection	Yes		Yes			
Maintenance Program	Yes		Yes			
Transferable	No		Yes			
Warranty Registration	Yes		Yes			
Coverage						
Manufacturing Defects	Yes		Yes			
Ordinary Wear & Tear	Yes		Yes			
Workmanship	No		Yes			
Remedy						
Materials	Yes		Yes			
Labor	Yes		Yes			

NOTES:

- 1. Liquid-Applied Emerald Pledge™ and Diamond Pledge™ must be applied per specifications.
- 2. Pre-Approval required for all 20 year Warranties by Director or above (Sales or Field Services).

Section 2 Substrate Preparation

GENERAL SUBSTRATE CONDITIONS

Preparation of the roof substrate is the responsibility of the installer, who must address and correct all of the conditions listed in this section.

- Examine substrates to receive new roofing. If any questions arise regarding the compatibility of HydroStop® PremiumCoat® liquid-applied roofing products with an existing substrate, Installer shall prepare test patches to check adhesion.
- Do not proceed with the installation of the HydroStop® PremiumCoat® liquid-applied roofing system until compatibility and adhesion of HydroStop® PremiumCoat® roofing system has been verified by test patches and other preparatory work has been completed and unsatisfactory conditions have been corrected.
- Roof must have positive drainage. Substrate should not pond water for more than 48 hours after precipitation stops.
 - GAF defines "ponding" as water that does not drain or dissipate from the roof surface within 48 hours after precipitation ends. Ponding can also result from other water sources, including improperly piped air conditioning condensate and steam condensate lines.
- Protect adjacent surfaces that will not be coated.
- Do not apply liquid-applied roofing products to surfaces unacceptable to GAF, or under inclement environmental conditions.
- Substrates must be clean, completely dry, and free of any debris before application of any liquidapplied products.
- HydroStop® PremiumCoat® liquid-applied roofing products should not be used on heavy-traffic bearing substrates. If foot traffic is expected, a rooftop walkway system approved by GAF must be used.

Always contact GAF's Technical Services Department (800-766-3411) for questions regarding suitable substrates, materials for test patches, or if you require additional information.

PROPER PREPARATION FOR ROOF TYPES

To ensure proper coating application, the existing roof membrane must be thoroughly cleaned. All dust, chalking film, bitumen exudate, greases or oils, and other loose debris should be removed prior to coating. Be careful when pressure washing to preserve the integrity of the existing roof membrane and to avoid damage to membrane seams (especially adhered seams). Allow the roof to dry completely prior to coating. Any required roof or flashing repairs should be completed and allowed to adequately cure where necessary. Refer to specific sections of this Manual for more information on roof preparation.

Depending on type of existing substrate and the coating to be applied, use of a primer may be required. Surfaces which typically require primer include: metal flashings, gravel stops, and other metal edging; concrete roof decks, masonry walls and other floor surfaces, and other porous surfaces. Refer to specific sections of this Manual for detailed requirements.

While rusted metal roofs can be coated, additional measures may be required. If the roof is affected by "white rust" (i.e., zinc or aluminum), it can be coated after cleaning. However, if the roof is affected by "red rust," the rust must either be removed or treated with corrosion inhibiting primer. Additionally, all rusted fasteners should also be removed or treated with a corrosion inhibiting primer.

WHAT IS BENEATH THE EXISTING ROOF SURFACE?

In membrane roof systems, there is typically a layer of insulation beneath the membrane. If the roof has ever experienced leaks, it is possible that there are areas of wet insulation in the existing roofing system. All wet roof insulation must be removed and replaced prior to coating. While certain areas of wet insulation may be noticeable simply by walking on them, an infrared moisture scan is recommended to more accurately determine areas of wet insulation.

Metal roofs are typically installed over a solid roof deck or over purlins and insulation. Examining the underside of the roof deck can reveal areas of wet insulation, deteriorated deck or other damage that needs to be repaired prior to coating.

MOISTURE SURVEY

It is the responsibility of the roofing contractor to determine the suitability of any substrate to receive a liquid-applied coating system. Roof moisture surveys are a common tool used to assist with this determination. When the deck/substrate has more potential to "hold" water, a moisture survey may be required by GAF.

Alternately, for decks/substrates such as steel, the use of roof cuts to verify the suitability of the substrate can be effective.

Where a moisture survey is performed:

- GAF requires a moisture survey be conducted by the roofing contractor prior to warranty issuance for Emerald Pledge™ and Diamond Pledge™ Guaranteed Systems installed over existing roofs.
- If the moisture survey shows areas of the roof that are wet, remove and replace all wet areas with new materials. Make typical repairs with original roof technology and follow the appropriate surface preparation steps.
- Moisture surveys include: IR scans, nuclear scans, test/core cuts, and portable devices used to indicate moisture.

Liquid-Applied Roofing Systems Roof Moisture Survey Criteria

Emerald™ Pledge & Diamond Pledge™ Guaranteed Systems				
Project Size	Less than 100 Sqs. (929 sq m)	100 Sqs. (929 sq m) or Greater		
Roof Survey Criteria	Roof Surveys Recommended	Roof Surveys Recommended	Roof Surveys Required	
Deck/Substrate (non-standing seam metal†)	All*	Steel* Wood* Cementitious Wood Fiber (Tectum or equivalent)* Gypsum*	Structural Concrete Lightweight Insulating Concrete** Existing Spray Polyurethane Foam Any existing system with a vapor retarder Any existing system that is a recover system Any existing system with significant ponding water (e.g. poor drainage)	
Liquid-Applied Limited Warranty				
Project Size		Any Project Size		
Roof Survey Criteria		Roof Surveys Recommended*		

^{*}Without significant ponding water. Minimum of (3) three roof cuts for the first 100 squares (929 sq m) and (1) one test cut per additional 100 squares (929 sq m) are required to verify existing roof conditions are acceptable and/or to determine where moisture is present.

^{**}For lightweight insulating concrete decks, please contact GAF Technical Services at 800-766-3411.

[†]Roof moisture surveys are not required/recommended for any system installed over an existing standing seam metal roof or when the liquid-applied roofing system is applied directly to an approved deck (not as a recover system).

REPAIR

Inspect and make all necessary repairs to damaged substrates. Refer to the Damaged Substrate Treatment sections below for substrate-specific information.

Damaged Substrate Treatment: Metal			
Areas of Concern	Treatment		
Rust Areas	 Severely damaged or rusted seams and/or fasteners must be replaced. Roof panels that are corroded to the point where they have holes must be replaced. Light rust areas must be treated to prevent further deterioration on metal panels. Roof surface shall have no more than 20% rust or must have panels replaced. 		
Fasteners	 All fasteners must be retightened, secured, or replaced as necessary. All stripped fasteners must be replaced with new larger fasteners. All deteriorated and missing fasteners must be replaced. All fasteners must be fully encapsulated with HydroStop® PremiumCoat® Butter Grade Flashing or fastened with UniCap Fastener Covers (refer to the Product Data Sheet for specific application requirements). 		
Dented / Damaged Panels	 Dents must be mechanically removed to the maximum extent possible. Cover broken rib area with a sheet metal cap and seal with HydroStop® PremiumCoat® Butter Grade Flashing prior to attaching the cap with fasteners. Severely damaged roof panels must be replaced. 		
Excessive Gaps	Seal cracks, joints, penetrations, and curbs with appropriate sealant materials as recommended.		
Seams	Repair all seams as needed. Refer to the Seam Treatment section in this Manual for specific seam treatment guidance.		
Open Ridge Vents	 Replace or install sheet metal caps over the open ridge vents when they are rusted on the inside and/or located in a harsh environment (e.g., salt water areas). Do not seal weep holes on vents. 		

Damaged Substrate Treatment: Non-Metal			
Substrate	Treatment		
ТРО	 Any areas where TPO has torn, cracked, and/or buckled, or where scrim is exposed must be repaired using similar compatible materials to the current roof. Any wet insulation must be replaced. Allow at least 48 hours drying time after the cleaning process before application of HydroStop® PremiumCoat® liquid-applied products. 		
PVC or Hypalon®	 Any areas where PVC or Hypalon has torn, cracked, and/or buckled, or where scrim is exposed must be repaired using similar compatible materials to the current roof. Any wet insulation must be replaced. Allow at least 48 hours drying time after the cleaning process before application of HydroStop® PremiumCoat® liquid-applied products. 		
Spray Polyurethane Foam	 All areas where the urethane foam has degraded must be scarified and re-foamed to bring substrate to a smooth, workable surface. Any areas where foam has become wet must be removed and refoamed. 		
EPDM	 Any areas where EPDM has torn, cracked, and/or buckled must be repaired using similar compatible materials to the current roof. Any wet insulation must be replaced. Allow at least 48 hours drying time after the cleaning process before application of HydroStop® PremiumCoat® liquid-applied products. 		
Mineral & Granule Surfaced BUR or Modified Bitumen (SBS & APP) <u>OR</u> Smooth Surfaced BUR or Modified Bitumen (SBS & APP)	 Any areas where asphaltic membrane has blistered, buckled, become wet and/or otherwise been damaged must be removed and repaired using similar compatible materials to the current roof. New BUR or modified bitumen repair materials must be allowed to weather at least 30 days before applying liquid-applied products to repaired areas. All areas where BUR or modified bitumen surface have significantly cracked (gaps 1/16" [1.6 mm] or greater in width and/or depth) must be repaired using flashing grade coating to create a smooth, workable surface on the substrate. Allow flashing grade coating at least 24 hours drying time before application of HydroStop® PremiumCoat® liquid-applied products. Areas with thicker applications may require additional drying time. Gravel-surfaced BUR or modified bitumen roofing systems are not a suitable substrate to receive a HydroStop® PremiumCoat® liquid-applied coating. 		

Damaged Substrate Treatment: Non-Metal (Cont'd.)			
Substrate Treatment			
Corrugated Structural Transite Panels	 All large or excessive gaps (greater than 1/4" [6 mm]) existing between roof panels must be filled or made flush with closed-cell foam strips or polyurethane foam to pre-fill voids. All fasteners must be retightened, secured, or replaced as necessary. All stripped fasteners must be replaced with larger fasteners. All deteriorated or missing fasteners must be replaced. All fasteners must be fully encapsulated with HydroStop® PremiumCoat® Butter Grade Flashing or fastened with UniCap Fastener Covers. Repair all horizontal seams as needed. Refer to the Seam Treatment section in this Manual for specific seam treatment guidance. Many of these panels can contain asbestos. Refer to the Environmental Considerations in the Cleaning Procedures section in this Manual for further information. 		
Structural Concrete	 All large or excessive gaps (greater than 1/4" [6 mm]) must be repaired using high-quality concrete grout. Grout must fully cure before application of HydroStop® PremiumCoat® liquid-applied coating system. Correct areas of ponding water. 		

CLEANING PROCEDURES

Treatment			
General Surface Prep	 Clean and prepare surfaces to receive liquid-applied roofing products. Remove all dirt, dust, loose and flaking particles, grease, oil, laitance, pollution fallout, and other contaminants that may interfere with proper adhesion. Use a stiff bristle push broom and/or pressure washing for cleaning and surface preparation. When encountering roof substrates that have living organisms such as algae, mold or fungus, a sterilant such as 3:1 bleach solution must be used to kill and remove these organisms during the roof cleaning. 		
Pressure Washing	 Substrate must be pressure-washed with water and/or approved cleaner. Refer to the Cleaner & Primer Guide in this Manual for specific cleaner information for the substrate you are working with. A minimum working pressure of 2,000 psi is to be used to remove all dirt, dust, chalking and waste products (oil, oil-based roof cements, solvents, grease, animal fats, etc.). Concrete, EPDM, and metal substrates should use a minimum working pressure of 3,000 psi. Care should be taken not to damage the roof surface or inject water into the substrate during washing. Allow at least 48 hours for complete drying after the cleaning process. 		
Important! Environmental Considerations	 Corrugated or structural transite panels are likely to contain significant amounts of asbestos, which may be released during pressure-washing. Asbestos dust is an extreme health hazard and known as a carcinogen. It is the Installer's responsibility to check with state and local agencies regarding proper disposal, as well as the proper protection for workers exposed to this material. Roof wash-off catchment systems should be in place when required. Be sure to follow state and local requirements for roof-wash off catchments during the cleaning process. 		

Note: Under no circumstances does GAF have any liability for expenses arising out of or associated with the presence of asbestos-containing materials or any other allegedly hazardous substances or materials on the roof to which the new GAF roofing materials are being applied.

GENERAL SUBSTRATE PREPARATION

Substrate Preparation: Metal					
Areas of Concern	Preparation				
Crickets	 Sheet metal crickets must be installed according to metal deck manufacturer's specifications. New crickets must be sealed with HydroStop® PremiumCoat® Butter Grade Flashing under the flanges before they are mechanically attached to the curb unit and metal roof panel. Stitch-screw cricket flanges to the curb unit and metal roof panel while the HydroStop® PremiumCoat® Butter Grade Flashing is still wet using fasteners. 				
Ponding Water Areas	 Make every effort to eliminate all ponding water areas prior to coatings application. Treat ponding water areas which cannot be eliminated with HydroStop® BarrierGuard® bulked with HydroFiber prior to application of other coatings. If ponding water cannot be eliminated, areas should be treated with a 3-course application of HydroStop® BarrierGuard® and fabric. 				
Residual Asphalt	 Remove any existing asphaltic roof coating. Any residual asphalt must be coated with UniBase Primer (see Cleaner & Primer Guide). 				
Pre-Finished Metal Panels	 If roof panel surfaces are known or suspected to contain Kynar-500, other fluoropolymers, or silicone, test patches need to be prepared with and without the use of XR-2000 Primer (see Cleaner & Primer Guide). Based on test patch adhesion results, Installer should apply primer on pre-finished metal panels per specifications. 				
Pitch Pans	 Pitch pans must be capped with sheet metal so they can be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. Contact GAF's Technical Services Department for more information. 				
Neoprene Pipe Boots	 Install neoprene boots prior to performing flashing work for certain types of pipe penetrations. Neoprene boots first must be sealed to the roof using a bead of HydroStop® PremiumCoat® Butter Grade Flashing prior to mechanical attachment with fasteners. 				
Condensate Lines	 Condensate lines should be installed from the HVAC units to gutters as part of the overall roofing contract. Type of piping used for condensate lines may vary depending on local building codes. Condensate lines must be securely fastened to panel ribs. All fastener heads must be encapsulated with HydroStop® PremiumCoat® Butter Grade Flashing. 				
Cinch Straps at Panel End Laps	 Re-tighten cinch straps as necessary. Surround each strap and fastener head with a bead of HydroStop® PremiumCoat® Butter Grade Flashing. Encapsulate the cinch strap water channel, then seal the entire lap, strap, and fastener heads with a minimum of 12 inches (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing. Feather the HydroStop® PremiumCoat® Butter Grade Flashing out. Fabric is not required. 				

Substrate Preparation: Metal (Cont'd.)						
Areas of Concern	Preparation					
Ridge Caps	 All ridge caps must be flashed with HydroStop® PremiumCoat® Butter Grade Flashing with fabric. All voids and open areas in the ridge cap must be filled with polyurethane foam prior to application of the coating and fabric. For metal "Z" closures which are located within 2 inches (51 mm) of the ridge cap edge, remove all exposed sealant and apply a liberal bead of HydroStop® PremiumCoat® Butter Grade Flashing with fabric to all sides of the "Z" closure where they intersect with both the roof panel and ridge cap. 					
Rakes	 All fixed rake details for the roof must be secured and sealed with 12 inches (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. If fixed rake metal is fastened to the top of roof panel ribs and extends back onto the roof, trim off any excess metal and follow horizontal seam flashing procedures. All voids and open areas must be filled with polyurethane foam prior to application of the coating and fabric. 					
Parapet Walls	 All parapet wall details within the roof system must be secured and sealed with 12 inches (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. If parapet wall flashing metal is fastened to the top of roof panel ribs and extends back onto the roof, trim off any excess metal and follow horizontal seam flashing procedures. All voids and open areas must be filled with polyurethane foam prior to application of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. United Coatings™ UniCap fastener covers can alternatively be used. 					
Standing Seam Panels	Contact GAF's Technical Services Department (800-766-3411).					
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Do not bridge fasteners. The fabric must be cut around all fasteners so the fabric lies flat. 					
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric should be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 					
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 					

	Substrate P	reparation: Metal (Cont'd.)				
	Areas of Concern	Preparation				
	Ribbed Seam	• All ribbed panel vertical seams must be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. Feather the coating until seams are no longer visible while brushing in the direction parallel to the seam.				
	Standing Seam	• All standing vertical seams must be sealed with a 1/2 inch (12 mm) bead of HydroStop® PremiumCoat® Butter Grade Flashing. Feather the coating until seams are no longer visible while brushing in the direction parallel to the seam.				
AMS	Standing "T" Seam	 Both vertical seams of the standing "T" must be flashed with a 1/2 inch (12 mm) bead of the HydroStop® PremiumCoat® Butter Grade Flashing and brushed into the seams. 				
VERTICAL SEAMS	Inverted "J" Seam	• In snowy climates and/or when roof leaks are suspected, recrimping the short leg of the seam all the way under the horizon portion of the inverted "J" seam is required. Brush or trowel-al HydroStop® PremiumCoat® Butter Grade Flashing over the new created single lock vertical seam. Portable seamers may be use perform the re-crimping.				
	Corrugated Seam	 All corrugated panel vertical seams must be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. Feather the coating until seams are no longer visible while brushing in the direction parallel to the seam. 				
	Batten Seam	 Both vertical seams of the batten must be flashed with a 1/2 inch (12 mm) bead of HydroStop® PremiumCoat® Butter Grade Flashing. Feather the coating until seams are no longer visible while brushing in the direction parallel to the seam. 				
HORIZONTAL SEAMS	Horizontal Seam	 while brushing in the direction parallel to the seam. All seams must be reinforced with two layers of HydroStop® PremiumCoat® Butter Grade Flashing with fabric or TOPCOAT® Liquid Fabric. The coating must be feathered at least 1 inch (25 mm) beyond each side of the 6 inch (152 mm) width to allow water to flow ove the seam. Fabric must be cut around all fasteners so it lies flat. For ribbed roof panels, the fabric must be applied over panel ribs in continuous lengths. A minimum 2 inches (51 mm) overlap is required for all splices in fabric. Horizontal seams must be secured with fasteners on the high side of every other corrugation, spaced no more than 12 inches (305 mm) on center. The horizontal seam must be made flush by installing two fasteners per flute. 				

Substrate Preparation: TPO					
Areas of Concern	Treatment				
Parapet Walls	 Repair all open seams and any loose or failed terminations with inkind materials prior to application of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. All parapet wall details within the roof system must be secured and sealed with a 12 inch (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. 				
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Do not bridge fasteners. Fabric must be cut around all fasteners so it lies flat. 				
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric must be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 				
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 				
Pitch Pans	 Pitch pans must be capped with sheet metal so that they may be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. 				
Condensate Lines	Condensate lines must be installed from HVAC units to gutters as part of the overall drainage system. The type of piping used for condensate lines may vary depending on local building codes.				

Substrate Preparation: PVC & Hypalon®					
Areas of Concern	Treatment				
Parapet Walls	 Repair all open seams and any loose or failed terminations with inkind materials prior to application of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. All parapet wall details within the roof system must be secured and sealed with a 12 inch (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. 				
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Do not bridge fasteners. Fabric must be cut around all fasteners so it lies flat. 				
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric must be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 				
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 				
Pitch Pans	 Pitch pans must be capped with sheet metal so that they may be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. 				
Condensate Lines	Condensate lines must be installed from HVAC units to gutters as part of the overall drainage system. The type of piping used for condensate lines may vary depending on local building codes.				

Substrate Preparation: EPDM					
Areas of Concern	Treatment				
Parapet Walls	 Repair all open seams and any loose or failed terminations with inkind materials prior to application of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. All parapet wall details within the roof system must be secured and sealed with a 12 inch (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. 				
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butte Grade Flashing with fabric. Do not bridge fasteners. Fabric must be cut around all fasteners so it lies flat. 				
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric must be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 				
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 				
Pitch Pans	 Pitch pans must be capped with sheet metal so that they may be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. 				
Condensate Lines	 Condensate lines must be installed from HVAC units to gutters as part of the overall drainage system. The type of piping used for condensate lines may vary depending on local building codes. 				

Substrate Preparation: Smooth & Granulated Surfaced Asphaltic					
Areas of Concern	Treatment				
Parapet Walls	 Repair all open seams and any loose or failed terminations with inkind materials prior to application of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. All parapet wall details within the roof system must be secured and sealed with a 12 inch (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. 				
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Do not bridge fasteners. Fabric must be cut around all fasteners so it lies flat. 				
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric must be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 				
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 				
Pitch Pans	Pitch pans must be capped with sheet metal so that they may be sealed with HydroStop® PremiumCoat® Butter Grade Flashing.				
Condensate Lines	Condensate lines must be installed from HVAC units to gutters as part of the overall drainage system. The type of piping used for condensate lines may vary depending on local building codes.				

NOTE: For spudded gravel surfaces, please contact GAF Technical Services (800-766-3411).

Substrate Preparation: Structural Concrete					
Areas of Concern	Treatment				
Parapet Walls	 Repair all cracked, spalled and open concrete holes with an in-kind cementitious patch. Repair any loose or failed seams with similar materials as originally used. This is commonly a polyurethane sealant with a closed cell polyethylene backer rod. All parapet wall details within the roof system must be secured and sealed with a 12 inch (305 mm) minimum width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Fabric must be cut around all fasteners so it lies flat. 				
Curb Flashings	 All curb flashings, including cricket details, must be flashed with at least a 12 inch (305 mm) width of HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Encapsulate all fasteners using HydroStop® PremiumCoat® Butter Grade Flashing with fabric. Do not bridge fasteners. Fabric must be cut around all fasteners so it lies flat. 				
Penetrations	 HydroStop® PremiumCoat® Butter Grade Flashing with fabric must be applied around the base of all penetrations, extending at least 6 inches (152 mm) up the vertical and 6 inches (152 mm) onto the base. Cut the fabric to accommodate the shape of the penetration. 				
Skylights	 Curb skylights must be treated in the same fashion as curb flashings. After flashing work has been completed and the coating has cured, treat deteriorated fiberglass skylight panels with United Coatings™ Acrysheen Sealer. 				
Pitch Pans	 Pitch pans must be capped with sheet metal so that they may be sealed with HydroStop® PremiumCoat® Butter Grade Flashing. 				
Condensate Lines	Condensate lines must be installed from HVAC units to gutters as part of the overall drainage system. The type of piping used for condensate lines may vary depending on local building codes.				

Adhesion Testing

Adhesion testing is generally performed to verify the suitability of any substrate to receive a liquid-applied coating system. It is the responsibility of the roofing contractor to determine the suitability of the substrate prior to the application of a liquid-applied coating system.

When adhesion tests are conducted:

- Test patches shall be labeled and photographed to document adhesion results.
- Installer can consult with GAF's Technical Services Department (800-766-3411) concerning all adhesion test results.

GAF recommends either of the following test methods:

Test Method #1: Test Patches						
Overview	Patch testing gives information about the bond strength created between a liquid-applied product and a substrate.					
Preparation	Installer should prepare no fewer than three (3) test patches at different locations on the roof for all questionable roof substrates to verify adhesion of the liquid-applied coating system.					
Test Method	 Minimum test patch size should be 1 square foot (0.09 square meter). Allow at least seven (7) full 24 hour days of drying time after application of the test patches before checking adhesion. Check adhesion by slicing an "X" (approx. 6" [152 mm] in size) near the center of the test patch. Using a spatula, try to remove the material at the center of the "X". 					
Acceptable Result:	Test patches that show good adhesion will release or chip away from the surface in very small pieces.					
Unacceptable Result:	Test patches that peel off of the surface and show the underlying substrate reflect poor adhesion.					

Test Method #2: Field Peel Adhesion (Alternate to Test Patches)						
Overview	ASTM D903 "Peel Adhesion" is found in all roof coating standards and is especially well-suited to field testing with elastomeric materials. Primers and enamels may also be evaluated by a similar test called ASTM D3359 "Tape Adhesion." It may also be important to run the test wet; this is called "wet adhesion."					
Preparation101	 Make a mock-up of the intended coating system on the existing roof surface. Duplicate any mechanical surface preparation. Simulate cleaners and power washing. A worn Scotch-Brite* cleaning pad makes a good power washing simulation. Prime as specified. Apply a layer of elastomeric coating to the substrate. Installer should prepare no fewer than three (3) test patches at different locations on the roof for all questionable roof substrates to verify adhesion of the liquid-applied coating system. 					
Test Method D-903 Peel Adhesion	 Wet about 6" (152 mm) of a precut 1" (25 mm) wide by 12" (305 mm) long fabric strip with the coating. Allow the remaining 6" (152 mm) of the fabric to be available to pull on the test sample. Apply another layer of coating to encapsulate the wetted section of fabric. Allow to dry. This can be anywhere from 24 hours to 2 weeks. In warm weather, 1 day may be sufficient. In cold weather, 5 days is often required. The standard practice is 1 week. Soak prior to testing (best practice). One hour is usually sufficient; use wet rag and cover with a bucket lid or plastic. Some coatings like polyvinylidene difluoride (PVDF) or silicone may take longer. 					
Optional	• Pre-cut 1" (25 mm) wide strips of butyl tape work faster and can be used in a post installation inspection. A "wet adhesion" version can be accomplished by soaking the roof area first as indicated above, but follow with a towel dry, and then use butyl tape to run the pull test. The butyl tape can be easier to use with a gauge as it will bond to itself making a perfect loop.					
Quantitative Evaluation (k	Quantitative Evaluation (best practice) Qualitative Evaluation					
 Use a force gauge such as a digital fish scale or trigger pressure gauge. A loop, staple or clamp may be used to hold the fabric in the gauge. Pull slowly; the peak value should be above 2 pounds/inch (2 PLI). 		Excellent: Coating tears up the substrate (cohesive failure of substrate) Very Good: Most of the coating remains on the substrate (cohesive failure of coating) Good: Some coating remains on the substrate (partial cohesive failure of coating) Fair: Coating pulls clean but pulls below 2 pounds inch (2 PLI) Poor: Test strip comes off easily and cleanly (complete cohesive failure of coating)				

Section 3 Quick Specs

HydroStop® PremiumCoat® Quick Spec Directory					
Spec Number	Substrate Specification				
HS-1	Metal – HydroStop® PremiumCoat®	29			
HS-2	Smooth & Granulated Asphaltic – Hydrostop™ PremiumCoat®	30			
HS-3	TPO – HydroStop® PremiumCoat®	31			
HS-4	PVC – HydroStop® PremiumCoat®	32			
HS-5	Hypalon® - HydroStop® PremiumCoat®	33			
HS-6	EPDM – HydroStop® PremiumCoat®	34			
HS-7	Structural Concrete – HydroStop® PremiumCoat®	35			
HS-8	Corrugated Structural Transite Panel – HydroStop® PremiumCoat®	36			
HS-9	ISO – HydroStop® PremiumCoat®	37			
HS-10	Gypsum (DensDeck & SecuRock) – HydroStop® PremiumCoat®	38			
HS-11	Warranty Extension/Renewal – HydroStop® PremiumCoat®	39			

Quick Specs are abbreviated specifications and are not meant to replace detailed specifications. Complete 3-part CSI System Specifications are available at www.gaf.com.

QUICK SPEC METAL – HYDROSTOP® PREMIUMCOAT® (HS-1)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Tighten and/or replace existing fasteners.
- 2. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 3. Install crickets to divert water and complete other necessary sheet metal repairs.
- 4. Prime rusty areas with Acrylex 400 Primer or StableRust Rust-Inhibiting Primer. For severe rust, prime area with Lock-Down Primer.
- 5. Treat seams.
- 6. Treat all roof penetrations, skylight curbs & rake edges with HydroStop® PremiumCoat® Butter Grade Flashing with fabric.
- 7. Encapsulate fasteners with HydroStop® HydroCap Fastener Caps or HydroStop® PremiumCoat® Butter Grade Flashing.
- 8. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 9. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

METAL HYDROSTOP® PREMIUMCOAT® SYSTEM Foundation Coat Finish Coat System Warranty Total DFT* 1st Coat 2nd Coat **3rd Coat** Total DFT* Total DFT* Emerald Diamond Area (Gal/Sq) (mils) (Gal/Sq) (Gal/Sq) (Gal/Sq) (Gal/Sq) (mils) (Gal/Sq) (mils) Pledge™ Pledge™ Horizontal & Vertical 2.5 27 0.75 0.75 13 40 1.5 Seams w/fabric 10 Year Yes Yes Field of Roof N/A 0 0.75 0.75 1.5 13 1.5 13 (no fabric) Horizontal & Vertical 27 17 2.5 1.0 1.0 2.0 4.5 44 Seams w/fabric 15 Year Yes Yes Field of Roof N/A 0 1.0 1.0 2.0 17 2.0 17 (no fabric) Horizontal & Vertical 2.5 27 1.0 1.0 1.0 3.0 25 5.5 52 Seams w/fabric 20 Year Yes Yes Field of Roof N/A 0 1.0 1.0 1.0 3.0 25 (no fabric)

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC

SMOOTH & GRANULATED ASPHALTIC – HYDROSTOP® PREMIUMCOAT® (HS-2)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Conduct moisture survey and remove/replace all wet areas.
- 2. Repair membrane including seams, penetrations, flashings, curbs, and terminations with like materials.
- 3. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 4. Prime with UniBase Primer.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

SMOOTH AND GRANULATED ASPHALTIC HYDROSTOP® PREMIUMCOAT® SYSTEM

		Foundation Coat (with fabric)			Finish Coat			System		Warranty	
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40		
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52		

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC TPO – HYDROSTOP® PREMIUMCOAT® (HS-3)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Conduct moisture survey and remove/replace all wet areas.
- 2. Repair membrane including seams, penetrations, flashings, curbs, and terminations with like materials.
- 3. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 4. Prime with TPO Red Primer.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

TPO HYDROSTOP® PREMIUMCOAT® SYSTEM

	Foundation Coat (with fabric)				System		Warranty				
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40		
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52		

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC PVC – HYDROSTOP® PREMIUMCOAT® (HS-4)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Conduct moisture survey and remove/replace all wet areas.
- 2. Repair membrane including seams, penetrations, flashings, curbs, and terminations with like materials.
- 3. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 4. In most cases, no primer is required for this substrate.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

PVC HYDROSTOP® PREMIUMCOAT® SYSTEM												
	Foundation Coat (with fabric)				Finish Coat		System		Warranty			
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™	
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40			
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes	
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52			

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC

HYPALON® - HYDROSTOP® PREMIUMCOAT® (HS-5)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Conduct moisture survey and remove/replace all wet areas.
- 2. Repair membrane including seams, penetrations, flashings, curbs, and terminations with like materials.
- 3. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 4. In most cases, no primer is required for this substrate.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

HYPALON® HYDROSTOP® PREMIUMCOAT® SYSTEM

	Foundation Coat (with fabric)			F	inish Coat		System		Warranty		
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40		
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52	-	

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC EPDM – HYDROSTOP® PREMIUMCOAT® (HS-6)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Conduct moisture survey and remove/replace all wet areas.
- 2. Repair membrane including seams, penetrations, flashings, curbs, and terminations with like materials.
- 3. Clean and allow roof to completely dry.
- 4. Prime using either Adhere-It II or CleanAct Rinsable Primer.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and HydroStop® PremiumCoat® Finish Coat per the chart below.

EPDM HYDROSTOP® PREMIUMCOAT® SYSTEM

	Foundation Coat (with fabric)				Finish Coat		System		Warranty		
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40		
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52	-	

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

QUICK SPEC

STRUCTURAL CONCRETE - HYDROSTOP® PREMIUMCOAT® (HS-7)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.
- Concrete must be fully cured (typically 28 days).

Application Instructions

Year 20

Year

2.5

27

1.0

1.0

- 1. Conduct moisture survey to ensure concrete contains less than 8% moisture.
- 2. Repair or replace damaged or deteriorated sections with like materials, allowing cementitious products to cure properly.
- 3. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow roof to completely dry.
- 4. Prime with Epoxy Primer.
- 5. Treat structural joints with backer rod and compatible sealant.
- 6. Treat all roof penetrations, drains, curbs, and scuppers.
- 7. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 8. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

HYDROSTOP® PREMIUMCOAT® SYSTEM Foundation Coat **Finish Coat** System Warranty (with fabric) DFT* 2nd Coat DFT* Total 1st Coat **3rd Coat** Total DFT* Total **Emerald** Diamond Pledge™ (Gal/Sq) (Gal/Sq) (Gal/Sq) (Gal/Sq) Pledge™ (mils) (Gal/Sq) (Gal/Sq) (mils) (mils) 10 2.5 27 0.75 0.75 4.0 1.5 13 40 Year 15 27 1.0 2.0 2.5 1.0 17 4.5 44 Yes Yes

STRUCTURAL CONCRETE

3.0

25

5.5

52

1.0

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

CORRUGATED STRUCTURAL TRANSITE PANELS – HYDROSTOP® PREMIUMCOAT® (HS-8)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Moisture survey recommended for all non-metal roofs.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Repair or replace damaged or deteriorated sections with like materials, allowing cementitious products to cure properly.
- 2. Power-wash roof to ensure it is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion. United Cleaning Concentrate (UCC) is recommended to clean the roof. Allow to completely dry.
- 3. Prime with Epoxy Primer.
- 4. Treat expansion joints with backer rod and compatible sealant. Concrete control joints and transite gaps in excess of 1/16" (1.6mm) shall also be caulked.
- 5. Treat all roof penetrations, drains, curbs, and scuppers.
- 6. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 7. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

CORRUGATED STRUCTURAL TRANSITE PANEL **HYDROSTOP® PREMIUMCOAT® SYSTEM Foundation Coat Finish Coat** System Warranty (with fabric) Total DFT* 1st Coat 2nd Coat **3rd Coat** Total DET* Total DFT* **Emerald** Diamond (Gal/Sq) (mils) (Gal/Sq) (Gal/Sq) (Gal/Sq) (Gal/Sq) (mils) (Gal/Sq) (mils) Pledge™ Pledge™ 10 25 27 0.75 0.75 1.5 13 4.0 40 Year 15 2.5 27 1.0 1.0 2.0 17 44 Yes Yes 4.5 Year 20 2.5 27 1.0 1.0 1.0 3.0 25 5.5 52 Year

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

POLYISOCYANURATE (ISO) – HYDROSTOP® PREMIUMCOAT® (HS-9)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- **Recover over an existing roof:** one (1) layer of ISO is required. Refer to local building code for further insulation requirements.
- New construction or tear-off: one (1) layer of ISO & minimum 1/4" (6.35 mm) gypsum coverboard OR two (2) layers of fully adhered staggered ISO. If the top layer is mechanically attached, plates must be encapsulated with Butter Grade Flashing.
- All seams must be treated with Butter Grade w/fabric OR Foundation Coat w/ fabric.
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Ensure roof is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion.
- 2. In most cases, no primer is required for this substrate.
- 3. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 4. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

POLYISOCYANURATE (ISO) HYDROSTOP® PREMIUMCOAT® SYSTEM

	Foundation Coat (with fabric)			Finish Coat			System		Warranty		
	Total (Gal/Sq)	DFT* (mils)	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	3rd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™
10 Year	2.5	27	0.75	0.75		1.5	13	4.0	40		
15 Year	2.5	27	1.0	1.0		2.0	17	4.5	44	Yes	Yes
20 Year	2.5	27	1.0	1.0	1.0	3.0	25	5.5	52		

^{*} DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

GYPSUM (DensDeck & SecuRock) – HYDROSTOP® PREMIUMCOAT® (HS-10)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

- Use GAF Roof Brush to apply HydroStop® PremiumCoat® Foundation Coat
- Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- If mechanically attached, plates must be encapsulated with Butter Grade Flashing.
- All seams are to be treated with Butter Grade w/fabric OR Foundation Coat w/ fabric.
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Ensure roof is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion.
- 2. In most cases, no primer is required for this substrate.
- 3. Before applying the HydroStop® PremiumCoat® System, an adhesion test is required to ensure an adhesion of a minimum of 2.0 PLI. Test patches to be applied with system rates listed below.
- 4. Apply HydroStop® PremiumCoat® Foundation Coat and Finish Coat per the chart below.

GYPSUM (DensDeck & SecuRock) **HYDROSTOP® PREMIUMCOAT® SYSTEM Foundation Coat Finish Coat** System Warranty (with fabric) DFT* 1st Coat 2nd Coat 3rd Coat DFT* DFT* Total Total Total **Emerald** Diamond (Gal/Sq) (Gal/Sq) (mils) (Gal/Sq) (Gal/Sq) (Gal/Sq) (mils) (Gal/Sq) (mils) Pledge™ Pledge™ 10 2.5 27 0.75 0.75 1.5 13 4.0 40 Year 15 2.5 27 1.0 1.0 2.0 17 4.5 44 Yes Yes Year 20 2.5 27 1.0 1.0 1.0 3.0 25 5.5 52 Year

^{*}DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

WARRANTY EXTENSION/RENEWAL – HYDROSTOP® PREMIUMCOAT® (HS-11)

NOTE: The following "Quick Spec" is an abbreviated specification and is not meant to replace the detailed specification. Read the entire 3-Part CSI System Specification prior to starting the project. Specifications are available at www.gaf.com.

Method

• Spray, roller, or brush apply HydroStop® PremiumCoat® Finish Coat

Requirements

- The existing HydroStop® Roofing System will be inspected to determine eligibility for recoat.
- Roof must be clean, dry, and tight.
- Adhesion test required to ensure proper adhesion to substrate(s).
- Apply at 50°F (10°C) and rising with no rain, dew, fog or freezing temperatures in forecast for 24 hours.
- GAF recommends that the surface temperature be at or less than 110°F (43°C) during application.

Application Instructions

- 1. Roof must be inspected before work begins.
- 2. Ensure roof is free of dirt, debris, oil, and other contaminants that could negatively affect adhesion.
- 3. Apply HydroStop® PremiumCoat® System per the chart below.

	WARRANTY EXTENSION/RENEWAL HYDROSTOP® PREMIUMCOAT® SYSTEM							
		Finish	Coat		Warranty			
Warranty Term	1st Coat (Gal/Sq)	2nd Coat (Gal/Sq)	Total (Gal/Sq)	DFT* (mils)	Emerald Pledge™	Diamond Pledge™		
10 Year	0.75	0.75	1.5	13	Vo.	Vaa		
15 Year	1.0	1.0	2.0	17	Yes	Yes		

^{*} DFT (Dry Film Thickness) is rounded to nearest mil. Actual DFT will vary dependent on substrate profile, application technique & waste factor. Primer/Base is not included in DFT calculations.

Section 4 Care & Preventative Maintenance

OVERVIEW

Due to its constant exposure to heat, cold, ultraviolet radiation, rain, snow, hail, high winds and/or mechanical damage, a roof can be the most vulnerable component of a building's exterior. Despite these negative effects, long-term performance can be enhanced, and major roof problems avoided, through correct design, quality materials, proper installation procedures and workmanship, and a comprehensive roof maintenance program. The cost of a comprehensive maintenance program is minimal compared to the cost of repairing and/or removing and replacing a damaged roofing system.

The roofing system is a critical asset in the overall building envelope, and should be treated as such. Identifying and correcting potential problems early is paramount to ensuring that small problems do not become major issues. It is also essential in maintaining the integrity of the roof, protecting the building's contents, and avoiding interruption of the building's intended function. A thorough and consistent maintenance schedule will not only extend the life of the roofing system and lower life cycle and replacement costs, but will help protect other building components as well.

UNDERSTANDING THE IMPORTANCE OF PROPER ROOF MAINTENANCE AND REPAIR

Like all roofing systems, roofs that have been coated require regular maintenance and repair to enhance long-term service life. The Roof Coatings Manufacturers Association (RCMA) recommends that roofs and coatings be inspected twice each year, generally in the spring and fall, and after any major storms or high speed wind events. Additional coating should be applied as necessary to repair damage to the coating or underlying roofing substrate. Additional coating can also be applied where the existing coating has worn away. Refer to the specific sections of this Manual for more information on coating and re-coating applications.

GENERAL CARE & PREVENTATIVE MAINTENANCE

The following is a list of general care and maintenance recommendations that will help achieve maximum performance from the roofing system.

- Provide proper drainage...to minimize standing water on the roof. Keep the roof surface clean from leaves, pine needles, twigs, paper, accumulated dirt and other debris, which tends to accumulate at and clog drains. Cut back trees or branches growing too close to the roof. Ponding of water on the surface of the roofing system will increase the probability of moisture entering the structure in the event of a puncture or other mechanical damage to the roofing membrane.
- Check the building exterior...for settlement or movement. Cracks in the walls are a warning of possible cracks in the roof substrate and flashing. Ensure that overhangs, cornices, fasciae, and edging are in good condition.
- Avoid damaging the roofing system by exposing it to any of the following, which could cause premature degradation of the coating or membrane:
 - Liquids containing petroleum products
 - Solvents
 - Grease used for lubricating rooftop units or from restaurant vents
 - Oils (new or old) used for air conditioning or compressor units
 - Kitchen waste or other animal fats
 - Chemicals

- The use of catch pans (including proper drainage of these pans or other means of protection) may be used to protect the roofing membrane from exposure to grease, chemicals, and other materials that would otherwise be expelled onto the roof surface. Prolonged exposure to these materials can cause swelling and possible degradation of the roofing system if spills are not removed in a timely manner.
- Check for signs of algae, mold, mildew or other plant growth on the roof, particularly in shaded areas that hold water.
- Unprotected areas of the roofing system are more susceptible to damage from heavy foot traffic and additional measures must be taken to avoid damage to the system. Contact GAF at 1-800-ROOF-411 (1-800-766-3411) for recommendations where heavy foot traffic is expected.
- If snow removal is necessary, use plastic shovels and be careful when working around protrusions or other areas where detail work could be damaged. Snow blowers, picks, axes and shovels with sharp edges must not be used on the roof.
- Remove foreign debris, such as glass, bolts, nails, screws, metal shavings, and any other materials that may cause punctures or cuts to the liquid-applied coating or roofing system.
- Limit roof access. Most roof damage is caused by individuals that are not authorized to access the roof, or by individuals that are not aware of the damage that can be caused when proper precautionary procedures are not followed. Roof access should be strictly limited to authorized personnel and outside personnel should be informed as to the precautions necessary when accessing the roof. Make a log of all visitors and maintenance personnel accessing the roof.
- Make sure that maintenance personnel are warned against dropping tools and equipment on the coated roof surface in order to avoid puncturing the membrane. When servicing the rooftop HVAC units, antennas, solar panels, satellite dishes, etc., care should be taken when placing tools, metal doors, lids, pans, or sharp objects on the coating system surface. When moving roof-mounted units or equipment over coated roofs, avoid damage by placing smooth plywood over the coating membrane prior to moving any equipment.
- Repair of any damage caused by misuse of the roofing system is the responsibility of the Building Owner. The Building Owner is also responsible for ensuring that any such damage is properly repaired by either the original contractor of record or another GAF-certified contractor. If timely repairs are not made to rectify mechanical damage or other misuse of the roofing system, this can result in the need for major repairs or replacement of the roof or roof coating system at the building owner's sole expense.

SEMI-ANNUAL INSPECTIONS & MAINTENANCE

When conducting a semi-annual inspection, the liquid-applied roofing system or coating may be slippery when wet. Exercise caution when walking on the liquid-applied roof system or coating during or after a rain shower, or if moisture is present in the form of dew, frost or ice. Pay attention while walking on light-colored surfaces as ice or frost build-up may not be as visible as on a dark surface.

Semi-Annual Inspection & Maintenance

Consist of cleaning the membrane and then a visual examination of the roof coating system. The inspection should include the overall coating condition as well as the integrity of flashings, vent pipes and other protrusions, skylights, drains, gutters, parapet walls and caps, adjacent walls, and mechanical equipment. Also check for evidence of any biological growth or other foreign debris.

Preventative Maintenance Program

Consists of regularly scheduled inspections and subsequent corrective actions, intended to maximize the life expectancy of the roofing system. It is recommended that preventative maintenance semi-annual inspections be scheduled in the spring and fall.

Additional Inspections

In addition to the scheduled semi-annual inspection, additional inspections should be scheduled if the roof is exposed to abusive or unusual conditions including but not limited to those listed below. Maintenance programs that include semi-annual inspections can usually be arranged through the installing contractor or another GAF-certified contractor. They can also be performed by a registered roof consultant or other qualified personnel who have been properly trained in liquid-applied roofing systems and safety. These inspections should be attended by the Building Owner and/or in-house maintenance personnel responsible for the roof. Additional roof inspections should be conducted whenever any of the following conditions occur:

- 1. Exposure of the roof to severe weather, such as strong winds, hail or continuous heavy rainfall.
 - Examine the roof for severely ponded areas, accumulated debris, and any damage to building components that may allow moisture to infiltrate the roofing membrane. The coating or liquid-applied system should also be examined in areas where severe conditions may have caused punctures, tears, abrasions or loose coating.
 - 2. After repair or replacement of rooftop equipment, or at any other time when the roof may be exposed to activities from other trades where damage may occur.
 - Examine the roof for spills, debris, sharp objects, punctures, excessive wear, or other damage caused by heavy traffic or modifications to the roof.

Cleaning Procedures

WARNING: The liquid-applied roofing system or coating may be slippery when wet. Exercise caution when walking on the liquid-applied roof system during cleaning.

1. Remove any build-up of rocks, branches, leaves, pine needles and other foreign debris, as well as excessive dirt build-up around drains and other low areas. Use a plastic rake, medium-bristle push brush or other appropriate method for removing accumulated debris from the roof, using the least amount of pressure possible. Remove any excessive build-up or blockage from drains, gutters and downspouts. Ensure that downspouts on multi-level roofs do not dump directly onto the coated roof surface below. Trim any overhanging trees to

- prevent excessive leaf and pine needle accumulation, allowing as much sunlight to the roof as possible to help eliminate mildew and algae growth.
- 2. Liberally apply GAF United Cleaning Concentrate, diluted at a ratio of 1 part concentrate to 10 parts water, under low pressure to a given section of the roof at the rate of 0.4 to 0.7 gallons per 100 ft^2 (1.6 to 2.9 L/m^2). Allow the cleaner to sit for a minimum of 15 minutes.
- 3. Make sure that areas where algae, mold, or mildew growth has occurred are thoroughly saturated. These areas should also receive additional scrubbing with a medium to stiff bristle brush to assure the most complete removal possible.
- 4. Pressure rinse toward the drains using clean water and a 1,200 to 1,500 psi pressure washer. Use a fan tip on the extension wand, held no closer than 12" (305 mm) from the coated roof surface. Low areas where the dirt has accumulated may require additional agitation using a broom or cleaning pad.

IMPORTANT: Roof wash-off catchment systems should be in place when required. Be sure to follow state and local requirements for roof-wash off catchments during the cleaning process.

INSPECTION CHECKLIST

Pre-Inspection

- 1. Prior to the actual roof inspection, a detailed roof plan should be prepared, on which any defects and notes can be recorded.
- 2. Prior to going onto the roof itself, inspect the underside of the deck (if accessible), as well as the outside of the building. Note any signs of excessive moisture or deterioration. These observations can give clues to not only problems with the roof, but also other conditions affecting the performance of the building envelope.

	GAF Inspection Checklist	
Area of Concern	Treatment	✓
Roof Membrane & Flashings	 Ensure that the overall roof coating membrane is sound and free of mechanical damage, splits, crazing, and cracking. In areas prone to standing water, inspect the coating surface for signs of blisters, delamination, or degradation caused by biological growth. 	
Roof Drains & Scuppers	• Ensure that roof drains and scuppers are clear and free of all debris to allow for proper drainage. Check drain covers to verify that they are tight and properly fastened. Ensure that the coating around drains and scuppers is sound and free of blisters, tears, and delaminations.	
Parapet Walls & Caps	• Inspect interface between roof deck and parapet walls to ensure that there are no splits or tears, and that the coating membrane is fully-adhered and sound. Examine parapet walls and caps to ensure that there are no cracks or breaks in the substrate or membrane that will allow moisture to enter beneath the coating system.	
Protrusions	• Inspect the reinforced coating around all protrusions, such as vent pipes, for any signs of splits, tears or delaminations around the base. Ensure that vent pipes have the proper caps installed. Inspect coating to ensure that it is still self-flashing and secure around the top of all protrusions.	
Roof Mounted Equipment	 All rooftop equipment should be inspected to ensure that it is well- secured to the base risers, and that the coating and reinforcement around the base is sound and free of blisters, tears and delaminations. 	
Skylights	Check the reinforcement around all skylights to ensure that it is sound and free of blisters, tears and delaminations.	
Other Details	 Check the bricks and mortar on chimneys, as well as caulking or joints in metal flashings such as copings, counter-flashings, rooftop units, curbs, caps, expansion joints, etc. Repair or replace caulking as necessary. 	
Moisture Analysis (optional)	• If damage has caused concern with moisture penetration into the roof substrate, a non- destructive moisture detection survey can be conducted to provide an accurate analysis. Two common methods are nuclear metering and infrared thermography. A moisture meter probe can also be inserted through the coating; however, this is a destructive method and will require the damage be repaired.	
Minor Repairs	 Areas found to need minor repairs (e.g., small punctures and tears) during the inspection may be repaired with Roof Mate Butter Grade. More extensive repairs may be treated with Roof Mate Butter Grade product with fabric. For project-specific recommendations, please contact GAF's Technical Services. 	

ROOF SPECIFIC LEAK INVESTIGATION

On metal decks, it is important to identify the direction of the deck flutes and deck slope. Moisture may infiltrate through the roofing system, migrate in the lower flutes of the deck, and leak inside the building in low areas.

On concrete decks or on projects where the existing roofing material is left in place, leaks may result from moisture entrapment in the original installation.

On poorly insulated roofing assemblies, leaks may occur as the result of condensation. It is therefore important to determine the leak location and frequency. Sources of air leakage should be sealed if possible.

- 1. Begin leak investigations by conducting a thorough visual inspection of the general location on the roof where leaks have been detected inside the building.
- Inspect detail areas such as drains, vents, scuppers, HVAC and other roof-mounted equipment, parapets, ponded water areas, etc. If the roof is dry at the time of investigation, areas where water ponds can be identified by evidence of accumulated residue on roof membrane.
- 3. Examine lower areas of the roof for moisture beneath the roof coating system (soft insulation can be detected when walking over the roof).
- 4. Check areas around mechanical rooftop equipment, drains, skylights, roof hatches, expansion joints, pipes, vents, etc. to identify cuts or punctures in the coating membrane.
- 5. Examine the condition of metal flashings (i.e., edging, coping, expansion joint covers, parapet caps, etc.) for cracks and improperly sealed joints.
- 6. When a visible source of the leak has not been identified, wet the system at the anticipated leak area with water and examine the interior area for leaks.
- 7. Often, an inspection of the underside of the deck will reveal signs of water leakage and/or air infiltration.

EMERGENCY REPAIRS

GAF must be notified of any leaks within 30 days of discovery of a leak or GAF will have no responsibility for making repairs or replacing that portion of the products that leak as a result of a manufacturing defect. The Building Owner may make temporary repairs to minimize damage to the building or its contents in an emergency. Only qualified workers should perform temporary repairs. These repairs will not result in cancellation of the applicable guarantee or warranty as long as they are reasonable and customary and do not result in permanent damage to the GAF roofing materials. When weather conditions permit, permanent repairs should be completed by a GAF-certified contractor at GAF's direction if it is a covered leak or at the building owner's direction for non-covered leaks.

Repairs should not be made with asphalt-based products unless a wet patch type product is needed for emergency purposes. If wet patch products are used they must be completely removed at the time permanent repairs are made.

Temporary Dry Surface Emergency Repairs

- Clean the coating surface around the damaged area using GAF United Cleaning Concentrate.
- Rinse the area with clean water and allow it to dry.
- Apply HydroStop® PremiumCoat® Butter Grade Flashing and embed with fabric as needed to provide additional strength. Contact GAF Technical Services before any other product is used to confirm its suitability.

Specific Repairs to Liquid-Applied Roofing Systems over Spray Polyurethane Foam (SPF) Insulation

- Minor breaks in the coating or mechanical damage to sprayed polyurethane foam (SPF) may be repaired with approved urethane caulk and then top-coated with HydroStop® PremiumCoat® Butter Grade Flashing with or without fabric. The damaged foam must be completely cut away prior to repairing. If the repaired area is larger than 2" (51 mm) in diameter, consult GAF Technical Services for proper repair procedures. Note: If silicone is used for repair, the area must be filled with Unisil with Unisil Fibers.
- Large blisters that are not leaking but have broken open should be removed and repaired. If the blister has not broken open, GAF recommends leaving it in place.

Specific Repairs to Liquid-Applied Roofing Systems Not Over Spray Polyurethane Foam (SPF) Insulation

- Repair minor mechanical damage to the liquid-applied coating membrane with HydroStop®
 PremiumCoat® Butter Grade Flashing and/or approved urethane caulk, and then top-coated
 with an approved GAF product. The damaged membrane must be completely cut away prior
 to repairing. If the repaired area is larger than 2" (51 mm) in diameter, consult GAF Technical
 Services for proper repair procedures.
- If the liquid-applied roofing system incorporates reinforcement fabric, then the repair should use HydroStop® PremiumCoat® Butter Grade Flashing with or without fabric.

ROOF ALTERATIONS

General

GAF must be notified of any planned roof alterations prior to such alterations being made. Coverage under the guarantee or warranty may be jeopardized if:

- GAF is not notified of alterations.
- The original contractor of record (or another GAF-certified contractor) does not do the required work.
- Non-GAF products are used.

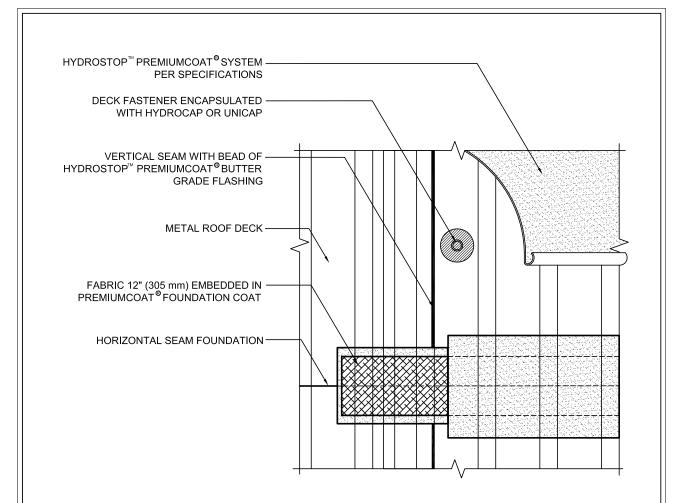
All alterations must be pre-approved, including but not limited to modifications such as roof-top HVAC units or other equipment, pipes, satellite dishes, antennas, conduit, general penetrations, skylights, etc.

NOTE: These maintenance and inspection procedures are provided for guideline use only. Your GAF-certified contractor or professional roof consultant may provide a more detailed maintenance program. Maintain records of roof damage and maintenance inspections for each building roof.

Section 5 Architectural Detail Drawings

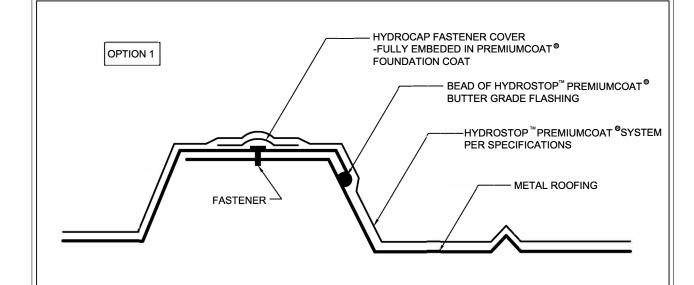
HydroStop® PremiumCoat® Architectural Design Drawings

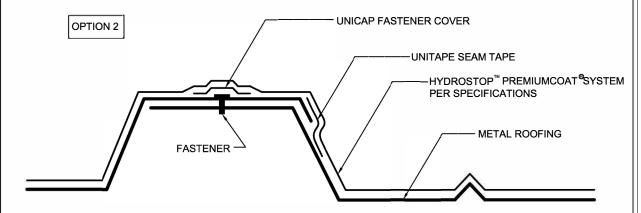
Drawing Number	Substrate Specification	Page #
HS-101	Typical Metal Roof Joint Detail	50
HS-102	Section at Vertical Panel Seam	
HS-104	Deck Joint Stripping Detail	52
HS-201	Standard Drip Edge Detail	53
HS-202	Gutter With Standard Drip Edge Detail	54
HS-203	Concrete Roof Deck Edge Detail	55
HS-300	Alternate Wall Flashing Detail	56
HS-301	Wall Flashing Detail	57
HS-302	Drip Edge Parapet Wall Detail	58
HS-303	Typical Roof Cant At Corner	59
HS-304	Typical Equipment Curb Flashing Detail	60
HS-305	Scupper Detail	61
HS-401	Curb to Curb Expansion Joint Flashing Detail	62
HS-502	Vent-Pipe Flashing Detail	63
HS-503	Vent-Stack Flashing Detail	64
HS-504	Standard Roof Drain Detail	65
HS-505	Exhaust Fan (for Cooking) Flash Detail	66



- 1. PREPARE ALL SURFACES AS REQUIRED BY GAF SPECIFICATIONS.
- 2. IF RUST IS PRESENT, PRIME ENTIRE ROOF WITH STABLE RUST PRIMER @ 1/2 GALLON / 100 SF MIN COVERAGE.
- 3. REMOVE LOOSE OR DAMAGED FASTENERS AND REPLACE WITH FASTENERS DESIGNED TO PENETRATE THE DECK AND SUPPORTING MEMBERS WITH NEOPRENE WASHERS AT THE SCREW HEAD.
- 4. DECK CONFIGURATIONS MAY DIFFER FROM THE DECK PROFILE INDICATED, BUT THE APPLICATION SHALL REMAIN THE SAME.
- 5. HYDROSTOP PREMIUMCOAT SYSTEM- FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 6. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

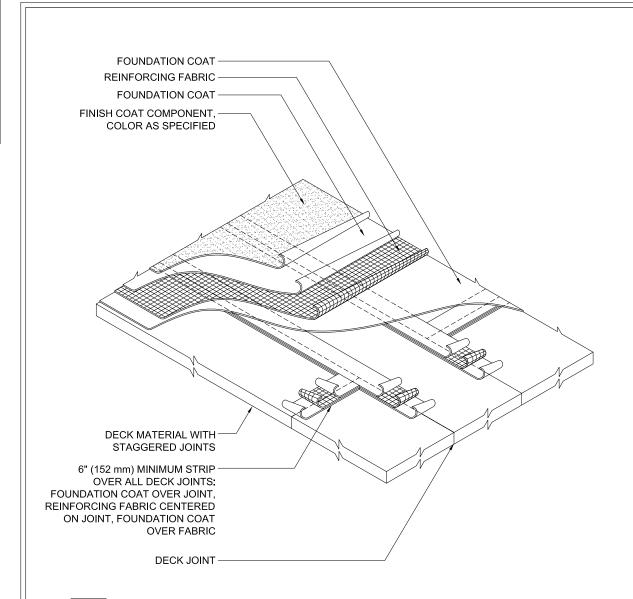
GAF	HYDROSTOP	METAL ROOF HORIZONTAL JOINT DETAIL	SYSTEM HS	101
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	FIELD OF ROOF SERIES		SCALE N.T.S.	issue/ revision date





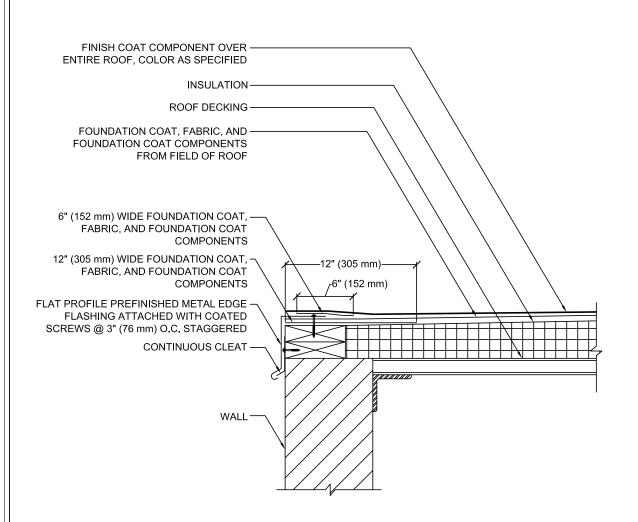
- 1. PREPARE ALL SURFACES AS REQUIRED BY GAF SPECIFICATIONS.
- 2. IF RUST IS PRESENT, PRIME ENTIRE ROOF WITH STABLE RUST PRIMER @ 200 SF/GAL MIN COVERAGE.
- 3. REMOVE LOOSE OR DAMAGED FASTENERS AND REPLACE WITH FASTENERS DESIGNED TO PENETRATE THE DECK AND SUPPORTING MEMBERS WITH NEOPRENE WASHERS AT THE SCREW HEAD.
- 4. METAL DECK CONFIGURATIONS MAY DIFFER FROM THE DECK PROFILE INDICATED, BUT THE APPLICATION SHALL REMAIN THE SAME.
- 6. PRIMING REFER TO HYDROSTOP™ SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP'	SECTION AT VERTICAL PANEL SEAM	SYSTEM HS	102
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	FIELD OF ROOF SERIES		SCALE N.T.S.	11-1-16



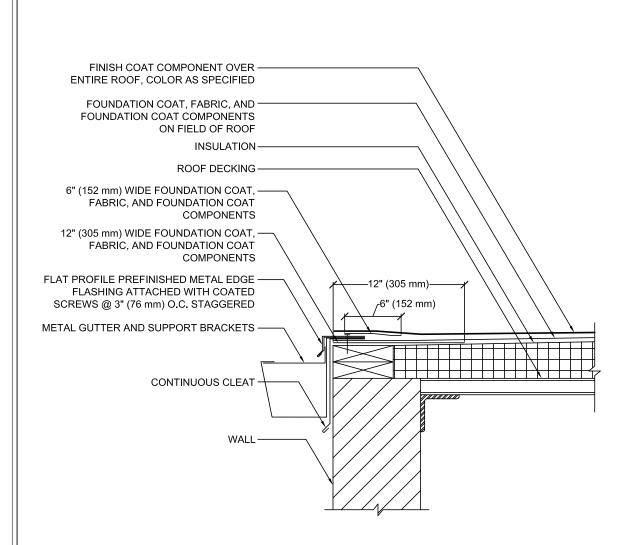
- 1. PREPARE ALL SURFACES IN ACCORDANCE WITH GAF SPECIFICATIONS.
- 2. ALL JOINTS SHALL BE TIGHT AND STABLE. ALL FASTENERS SHALL BE FLUSH WITH THE DECK.
- 3. PREMIUM COAT $^{\circ}$ SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	DECK JOINT STRIPPING DETAIL	SYSTEM HS	104
www.gaf.com	FIELD OF ROOF		SCALE	ISSUE/ REVISION DATE
1 Campus Drive Parsippany, NJ 07054	SERIES		N.T.S.	12-1-16



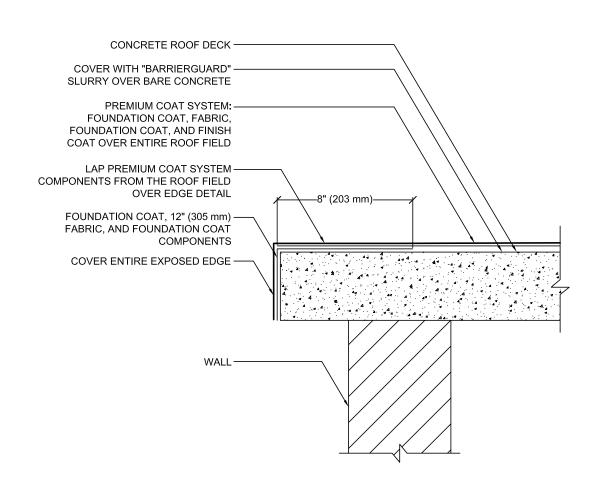
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS. METAL THICKNESS, FASTENERS AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECKING PRIMING REQUIREMENTS.

GAF	HYDROSTOP	STANDARD DRIP EDGE DETAIL	SYSTEM HS	201
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	ROOF EDGE SERIES		SCALE N.T.S.	12-15-16



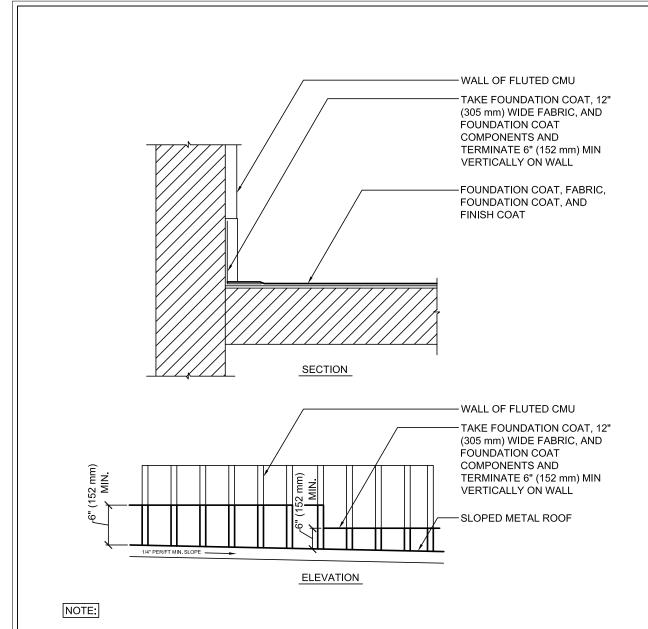
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS. METAL THICKNESS, FASTENERS AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT $^{\circ}$ SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECKING PRIMING REQUIREMENTS.

GAF	HYDROSTOP	GUTTER WITH STANDARD DRIP EDGE DETAIL	SYSTEM HS	202
www.gaf.com	ROOF EDGE		SCALE	ISSUE/ REVISION DATE
1 Campus Drive ParsIppany, NJ 07054	SERIES		N.T.S.	12-15-16



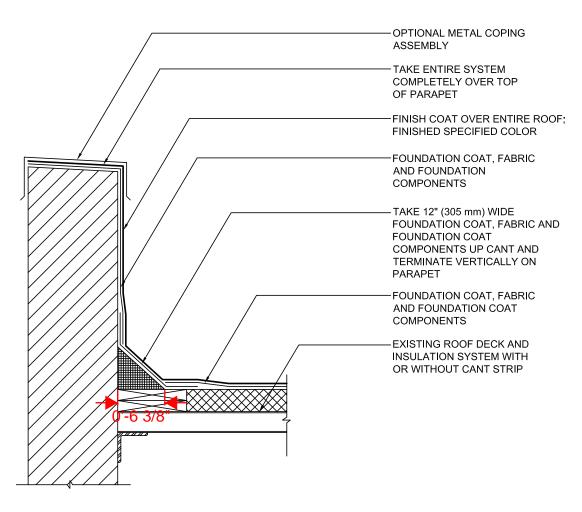
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS. METAL THICKNESS, FASTENERS AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT $^{\rm 0}$ SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	CONCRETE ROOF DECK EDGE DETAIL	HS	203
www.gaf.com	ROOF EDGE		SCALE	ISSUE/ REVISION DATE
1 Campus Drive ParsIppany, NJ 07054	SERIES		N.T.S.	12-15-16



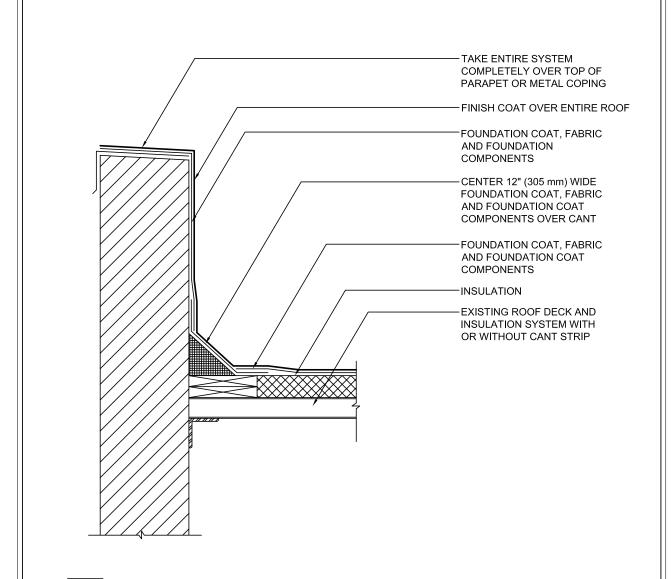
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS. METAL THICKNESS, FASTENERS, AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT $^{\circ}$ SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	ALTERNATE WALL FLASHING DETAIL	HS	300
www.gaf.com	WALL & CUDD		SCALE	ISSUE/ REVISION DATE
1 Campus Drive ParsIppany, NJ 07054	WALL & CURB SERIES		N.T.S.	12-1-16



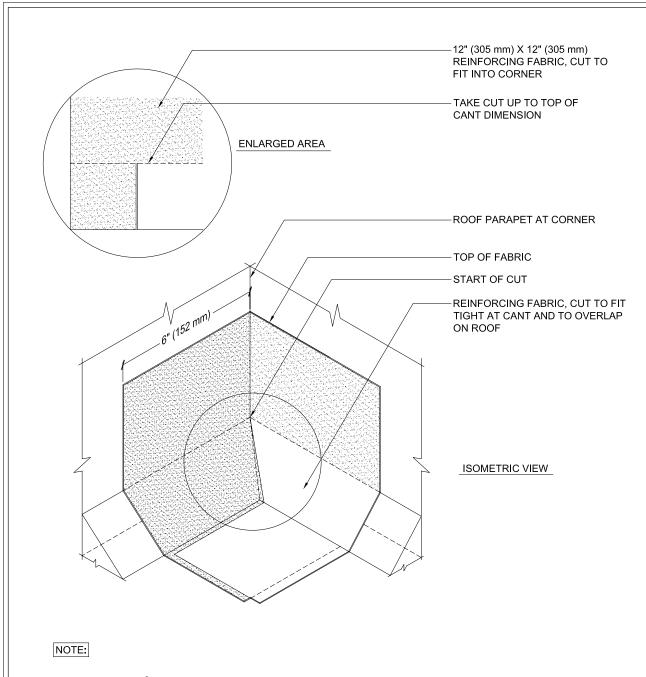
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS, METAL THICKNESS, FASTENERS, AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT $^{\circ}$ SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	WALL FLASHING DETAIL	SYSTEM HS	301
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	WALL & CURB SERIES		SCALE N.T.S.	ISSUE/ REVISION DATE



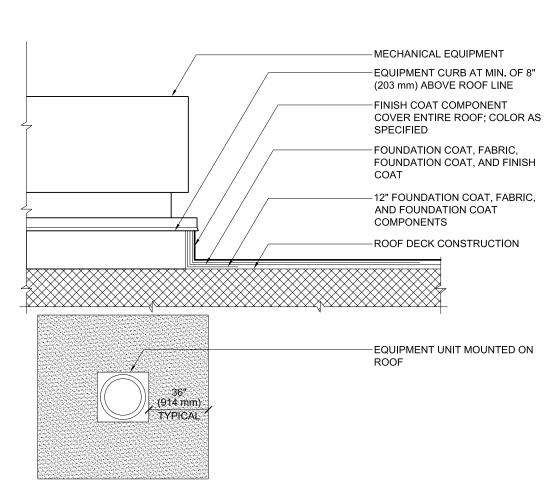
- 1. PREPARE ALL SURFACES IN ACCORDANCE WITH GAF SPECIFICATIONS.
- 2. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 3. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	DRIP EDGE PARAPET WALL DETAIL	HS	302
www.gaf.com 1 Campus Drive	WALL & CURB		SCALE	ISSUE/ REVISION DATE
Parsippany, NJ 07054	SERIES		N.T.S.	12-1-16



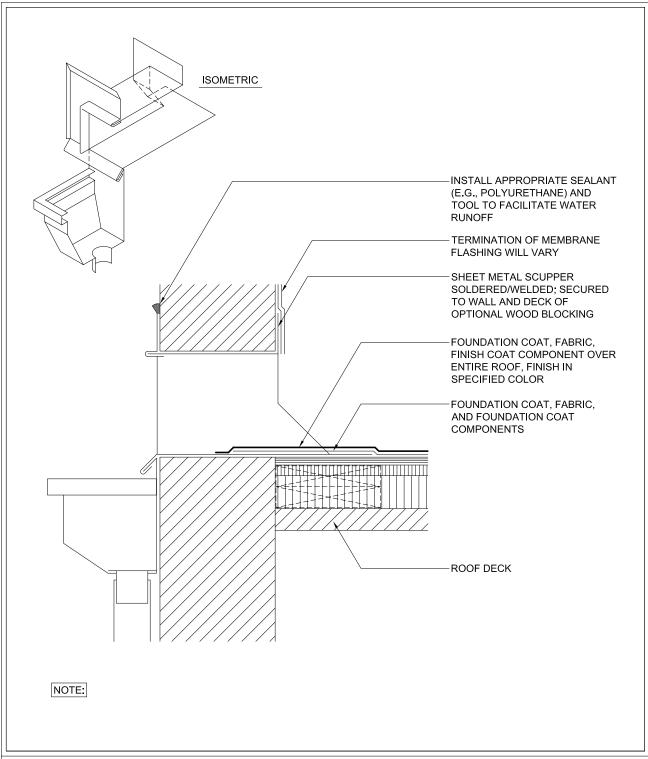
- 1. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 2. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP [®]	TYPICAL ROOF CANT AT CORNER	HS	303
www.gaf.com	WALL & OLIDD		SCALE	ISSUE/ REVISION DATE
1 Campus Drive Parsippany, NJ 07054	WALL & CURB SERIES		N.T.S.	12-1-16

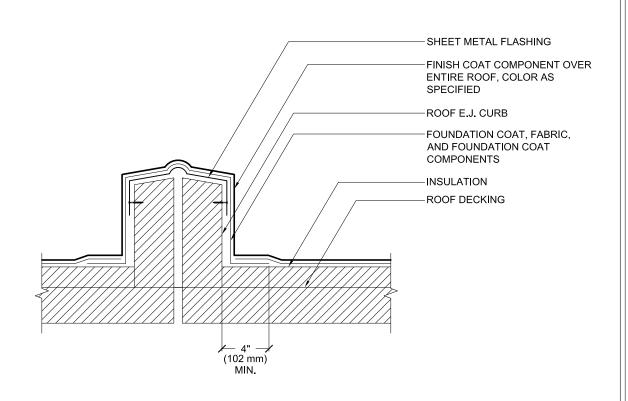


- 1. THIS DETAIL IS A TYPICAL FLASHING DETAIL AT EQUIPMENT CURBS.
- 2. PREPARE THE ROOF SURFACE AS PER GAF SPECIFICATIONS PRIOR TO APPLICATION OF ROOF COATING.
- 3. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 4. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 5. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	TYPICAL EQUIPMENT CURB FLASHING DETAIL	SYSTEM HS	304
www.gaf.com	MALL A CUIDD		SCALE	ISSUE/ REVISION DATE
1 Campus Drive Parslppany, NJ 07054	WALL & CURB SERIES		N.T.S.	12-1-16

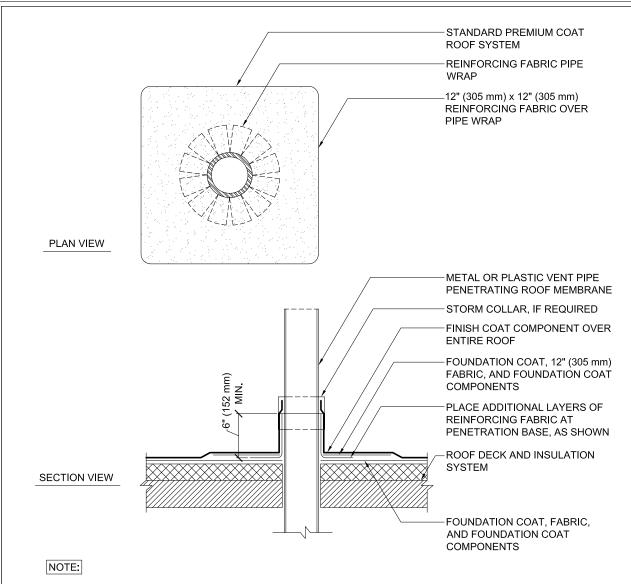


CAF	HYDROSTOP	SCUPPER DETAIL	SYSTEM HS	drawing # 305
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	WALL & CURB SERIES		SCALE N.T.S.	issue/ revision date



- 1. PREPARE ALL SURFACES IN ACCORDANCE WITH GAF SPECIFICATIONS.
- 2. SHEET METAL FLASHING AND EXPANSION JOINT DESIGN PROFILE TO BE DETERMINED BY ROOF DESIGNER.
- 3. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	CURB TO CURB EXPANSION JOINT FLASHING DETAIL	HS	401
www.gaf.com 1 Campus Drive	EXPANSION JOINT		SCALE	ISSUE/ REVISION DATE
Parsippany, NJ 07054	SERIES		N.T.S.	12-1-16

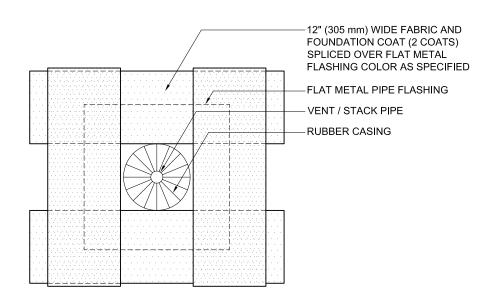


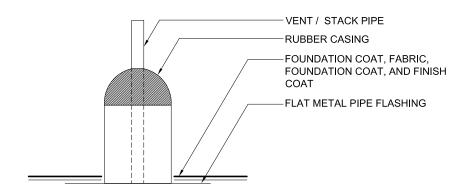
1. THIS DETAIL IS A TYPICAL PENETRATION DETAIL APPLICABLE FOR ALL COLD PIPE PENETRATIONS. FOR HOT PIPE PENETRATIONS, CONTACT THE MANUFACTURER FOR REQUIREMENTS.

2.FOR PIPE PENETRATIONS THAT EXCEED 18" (457 mm) ABOVE THE ROOF SURFACE, A STORM COLLAR SHALL BE USED WITH A DRAW BAND AND CAULKING. THE ROOF COATING SHALL EXTEND 8" (203 mm) MINIMUM UP THE PENETRATION SURFACE AS INDICATED IN THIS DETAIL.

- 3. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS. ALL GUTTER SEAMS ARE TREATED WITH FOUNDATION COAT AND 4" (102 mm) OR 6" (152 mm) FABRIC DEPENDING ON PROFILE OF THE GUTTER (CONTACT TECHNICAL SERVICES).
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

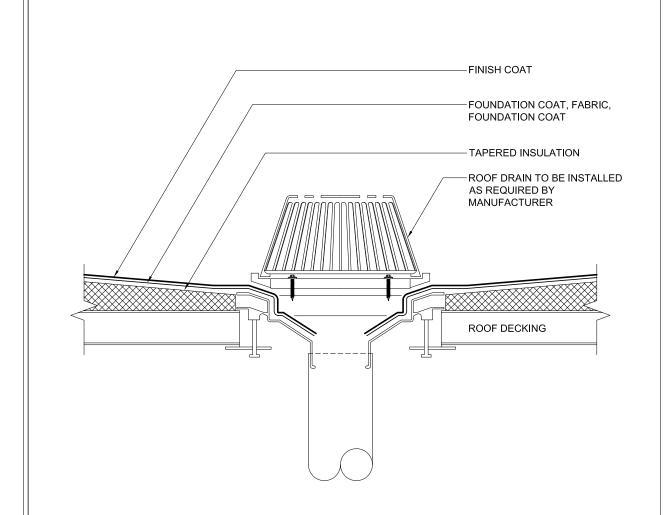
GAF	HYDROSTOP	VENT-PIPE FLASHING DETAIL	HS	502
www.gaf.com 1 Campus Drive Parslppany, NJ 07054	ROOF PENETRATION SERIES		SCALE N.T.S.	ISSUE/ REVISION DATE





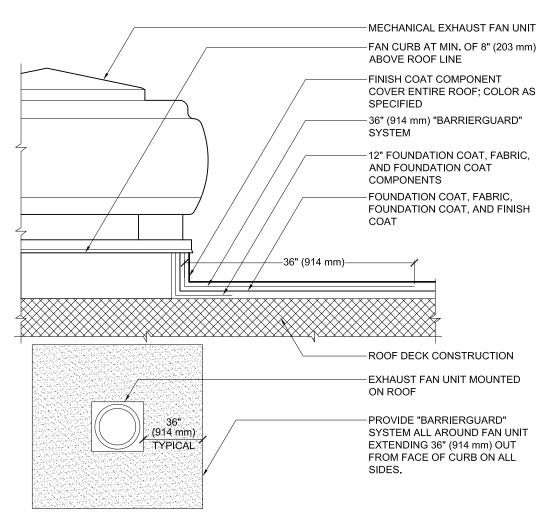
- 1. ALL FLASHING SHALL BE DESIGNED FOR THE APPLICABLE CONDITIONS. METAL THICKNESS, FASTENERS, AND LAPPING SHALL BE AS SPECIFIED BY THE ROOF DESIGNER.
- 2. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 3. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

CAF	HYDROSTOP	VENT-STACK FLASHING DETAIL	SYSTEM HS	503
www.gaf.com 1 Campus Drive ParsIppany, NJ 07054	ROOF PENETRATION SERIES		SCALE N.T.S.	12-1-16



- 1. ROOFING MEMBRANE SHALL EXTEND UNDER THE ROOF DRAIN COMPRESSION CLAMP RING.
- 2. ALL DRAIN COMPONENTS SHALL BE MADE OF CAST IRON UNLESS APPROVED BY THE ROOF MEMBRANE MANUFACTURER TO USE ANOTHER MATERIAL.
- 3. SLOPE INSULATION TOWARDS DRAIN.
- 4. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

CAF	HYDROSTOP	STANDARD ROOF DRAIN DETAIL	SYSTEM HS	504
www.gaf.com 1 Campus Drive Parsippany, NJ 07054	ROOF PENETRATION SERIES		SCALE N.T.S.	6-1-16



- 1. THIS DETAIL IS A TYPICAL FLASHING DETAIL AT EXHAUST FANS FOR COOKING. "BARRIERGUARD" SYSTEM IS NOT USED FOR STANDARD EXHAUST FANS.
- 2. PREPARE THE ROOF SURFACE AS PER GAF SPECIFICATIONS PRIOR TO APPLICATION OF ROOF COATING.
- 3. REFER TO THE SPECIFICATIONS FOR SPECIFIC EXECUTION REQUIREMENTS.
- 4. PREMIUM COAT® SYSTEM FOUNDATION COAT, FABRIC, FOUNDATION COAT, AND FINISH COAT COMPONENTS.
- 5. PRIMING REFER TO HYDROSTOP® SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

GAF	HYDROSTOP	EXHAUST FAN (FOR COOKING) FLASH DETAIL	HS	505
www.gaf.com	ROOF PENETRATION		SCALE	ISSUE/ REVISION DATE
1 Campus Drive Parsippany, NJ 07054	SERIES		N.T.S.	12-1-16

NOTES

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