

Slateline® Shingles

Bold shadow lines and tapered cut-outs create the look of slate at a fraction of the cost. Now with GAF Time-Release Algae-Fighting Technology for long-lasting algae-fighting power so strong it allows us to offer a 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration.¹

Moravian Academy 422 Heckewelder Place Bethlehem, PA 18015

Roofing/Gutters and Downspouts Submittals 04/10/2024



Slateline® Shingles

Benefits:

- Affordable luxury Slateline[®]
 Shingles are only a fraction of the cost of traditional slate or wood shakes
- Sophisticated design Artisancrafted shapes combined with oversized tabs and a dimensional design result in a sophisticated beauty unmatched by typical shingles
- Custom color palette Specially formulated color palette is designed to accentuate the shingle's natural appeal
- Stays in place Dura Grip™ Adhesive seals each shingle tightly and reduces the risk of shingle blow-off. Shingles warranted to withstand winds up to 130 mph (209 km/h).²
- StainGuard Plus™ Algae Protection
 Limited Warranty Specially
 engineered capsules release copper
 over time for long-lasting algaefighting power. It's protection so
 strong, it allows us to offer a 25-year
 limited warranty against blue-green
 algae discoloration.¹

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- High-performance Designed with Advanced Protection® Shingle Technology, which reduces the use of natural resources while providing excellent protection for your home
- The ultimate peace of mind Lifetime[†] limited transferable warranty with Smart Choice[®] Protection (non-prorated material and installation labor coverage) for the first 10 years
- Perfect finishing touch For the best look, use TimberTex® Premium Ridge Cap Shingles with a StainGuard Plus™ Algae Protection Limited Warranty¹
- Trusted Slateline® Shingles have earned the Good Housekeeping Seal

Product details:

Product/System Specifics

- Fiberglass asphalt construction
- Dimensions (approx.): 17" x 40" (432 mm x 1,016 mm)
- Exposure: 7 ½" (190.5 mm)
- Bundles/Square: 3
- Pieces/Square: 48
- Nails/Square: 2884
- Hip/Ridge: TimberTex®3
- Starter: WeatherBlocker™
- StainGuard Plus[™] Algae Protection Limited Warranty¹

Applicable Standards & Protocols

- UL Listed to ANSI/UL 790 Class A
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018, Type 1
- Meets ASTM D3462⁵
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- State of Florida approved
- Miami-Dade County Product Control approved
- Texas Department of Insurance listed
- CSA A123.56

Installation

Detailed installation instructions are provided on the inside of each bundle wrapper of Slateline[®] Shingles. Installation instructions may also be obtained at gaf.com.

- Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence [or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only. See the GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime Shingle and at least 3 qualifying GAF Accessories. See the GAF Roofing System Limited Warranty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warranty, see the GAF Roofing System Limited Warranty, Visit gof.com/LRS for qualifying GAF products.
- ¹ 25-year StainGuard Plus[™] Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus[™] logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions, and qualifying products.
- ² 15-year 130 mph wind speed coverage requires special installation and use of GAF Starter Strip Shingles; see GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions.
- ³ Required by some local codes and required for enhanced wind coverage on certain products. These products are not available in all areas. See gaf.com/RidgeCapAvailability for details.
- ⁴ Required by some local codes and required for enhanced wind coverage on certain products.
- ⁵ Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.
- ⁶ Refers to products sold in Canada only.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.



Colors:

Antique Slate



Royal Slate



Weathered Slate





Tiger Paw[™] Premium Roof Deck Protection

Help protect your home and roof system from damaging moisture with premium roof deck protection



- Provides a critical layer of extra protection between your shingles and roof deck to resist wind-driven rain (or moisture from other sources)
- Offers longer-lasting protection than conventional asphalt felts (which can rot or become brittle over time)
- Avoids wrinkling and buckling for a better-looking finished roof



Tiger Paw[™] Premium Roof Deck Protection

Benefits:

- Premium non-asphaltic, polypropylene construction for long-lasting protection
- Specially designed walking surface and anti-skid back coating help provide excellent walkability for installers
- Moisture-control design helps reduce damaging moisture on the roof deck unlike typical synthetic non-breathable underlayments¹
- Provides at least 600% (i.e., 7 times) greater tear strength² and 147% higher nail-pull strength³ than conventional #30 asphalt felt

- 48-inch-wide (1.22 m) roll provides 33% more coverage than conventional 36-inch-wide (914 mm) asphalt felts
- Light-gray surface is cooler to work on in hot weather than conventional black felts
- Eligible for up to a Lifetime[†] limited warranty. It's also an eligible accessory product in the Roof Deck Protection Category of GAF residential enhanced warranties.

Product Details:

Nominal Specifications:

For use with asphaltic shingles and may also be used with slate, wood, metal, or tile⁴

- Roll size: 10 squares (1,000 sq. ft. [92.9 m²]) (excludes laps)
- Roll length: 250' (76.2 m)
- Roll width: 48" (1.22 m)
- Aprox. roll weight: 40 lb. (18 kg)
- UV exposure: UV-stabilized polypropylene construction resists UV degradation for up to 180 days⁵

Code Approvals and Standards:

- Meets or exceeds the physical requirements of ASTM D226, Type II and D4869
- Miami-Dade County Product Control approved
- State of Florida approved
- ICC-ES ESR-3286
- CSA A123.3
- Component of a UL Listed ANSI/UL 790 Class A system.when used with UL Class A shingles⁶
- Listed with Texas Department of Insurance as an acceptable alternate roof underlayment
- Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence [or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only. See the GAF Shingle & Accessory Limited Warnarty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime Shingle and at least 3 qualifying GAF Accessories. See the GAF Roofing System Limited Warnarty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warnarty. See the GAF Roofing System Limited Warnarty. See the GAF Roofing System Limited Warnarty.
- As per GAF ASTM D570-modified testing.
- ² GAF trapezoidal tear strength testing per ASTM D4533.
- ³ GAF nail pull-through testing per ASTM D3462.
- ⁴ Contact GAF Technical Support at 1-800-766-3411 for acceptable non-asphaltic roofing systems and limited warranty coverage.
- 5 180-day UV resistance refers to standardized testing conducted to ensure the product will not physically degrade when exposed to UV. It is NOT related to withstanding water, snow, or wind. While Tiger Paw" Roof Deck Protection is water resistant, it is NOT WATERPROOF. DO NOT USE Tiger Paw" Roof Deck Protection as a temporary roof to protect property or possessions.
- Refer to UL Online Certification Directory for actual assemblies.

Note: Always use plastic cap nails or staples with plastic caps to install Tiger Paw™ Roof Deck Protection. Do NOT use nails or staples without caps

Installation:





To learn more about the Lifetime[†] Roofing System visit **gaf.com/Lifetime**









TimberTex®Premium Ridge Cap Shingles

Choose the perfect finishing touch for your new roof with premium, dimensional ridge cap shingles.



- Offer double-layer protection against leaks and blow-offs at the hips and ridges
- Provide a high-quality alternative to cut-up strip shingles
- Provide enhanced limited warranty coverage[†] (vs. using typical 20- or 25-year cut-up 3-tab strip shingles as your ridge cap)





TimberTex® Premium Ridge Cap Shingles

Benefits:

- Extra-thick, double-layer design with large 8" (203 mm) exposure provides excellent dimension
- Accentuate the beauty of your newly installed GAF shingle roof
- Manufactured by GAF to complement your GAF shingles (unlike cut-up 3-tab shingles)
- Dura Grip[™] Self-Seal Adhesive seals each piece tightly and helps reduce the risk of shingle blow-off
- 25-year StainGuard Plus[™] Algae Protection Limited Warranty against blue-green algae discoloration¹
- Eligible for up to a Lifetime[†] limited warranty. They're also an eligible accessory product in the Ridge Cap Shingle Category of GAF residential enhanced warranties.
- Fewer pieces to install (vs. typical cut-up 3-tab shingles) saves time on the roof

Product Details:

Nominal Specifications:

- 12" (305 mm) width
- 8" (203 mm) exposure

Packaging:

 30 double-layer ridge caps per bundle (10 shingles, each with 3 double-layer ridge caps per shingle)

Coverage:

- 20 lineal ft. (6.1 lm) per bundle
- 5 bundles cover 100 lineal ft. (30.5 lm)
- 150 pieces cover 100 lineal ft. (30.5 lm)

Code Approvals:

- UL Listed to ANSI/UL 790 Class A²
- ASTM D3462³
- ASTM D3018 Type 1
- ASTM D3161 Class A
- ASTM D3161 Class F4
- ICC-ES AC438
- CSA A123.5
- ICC Evaluation Reports ESR-1475 and ESR-3267
- Miami-Dade County Product Control Approved
- Florida Building Code Approved

Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence for eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only. See the GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime Shingle and at least 3 qualifying GAF Accessories. See the GAF Roofing System Limited Warranty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warranty. Visit gaf.com/LRS for qualifying GAF products.

¹ 25-year StainGuard Plus™ Algae Protection Limited Warranty against bluegreen algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions and qualifying products.

² Refer to UL Online Certification Directory for actual assemblies.

³ Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at the time of manufacture.

⁴ With sealant applied as specified in manufacturer's installation instructions for maximum wind speed coverage.

Note: See ${\it gaf.com/RidgeCapAvailability}. for regional availability.$

See the difference:



BeforeCut-up 3-tab strip shingles used at the hips and ridges.



After

A distinct finishing look that also protects against leaks and shingle blow-offs.



To learn more about the Lifetime[†] Roofing System visit **gaf.com/Lifetime**













WeatherWatch® Mineral-Surfaced Leak Barrier

Help protect your home and roof system from wind-driven rain and damaging ice dams





- Helps prevent leaks at the most vulnerable areas of your roof
- Reduces the risk of costly repairs due to wall or ceiling staining from leaks
- Meets most code requirements where local building codes require the use of leak barriers¹



WeatherWatch® Mineral-Surfaced Leak Barrier

Benefits:

- Excellent protection at the eaves and rakes, in valleys, and around chimneys and skylights, which guards against leaks caused by wind-driven rain, ice dams, backed-up gutters, and roof settling
- Self-seals around fasteners to help avoid leaks
- Durable fiberglass-reinforced construction

- Traditional mineral surfacing for use with asphalt shingle roof systems
- Split-back release film peels off in layers for fast installation
- Eligible for up to a Lifetime limited warranty when used on Lifetime Shingle roofs² and it's an eligible component of GAF residential enhanced warranties

In the "North," most building codes require the use of leak barriers at the eaves:³

- Protection against ice dams is required by most building codes¹ at the eaves where the January average temperature is 25°F (-4°C) or lower or where there is a possibility of ice forming in the eaves i.e., areas labeled "North"³ (see map).
- Ice dams can still occur in areas where the average temperature is above 25°F (-4°C)
- In warmer/Southern climates, leak barriers provide critical protection against wind-driven rain

Meets or exceeds the following requirements of ASTM D1970

Property	Method	Requirement
Thickness (mils)	D5147	Min. 40
Tensile strength MD (lbf/in)	D2523	Min. 25
Tensile strength CMD (lbf/in)	D2523	Min. 25
Elongation at break, modified bitumen Portion - MD and CMD (%)	D2523	Min. 10
Adhesion to plywood at 75°F (24°C) (lbf/ft-width)	D903	Min. 12
Adhesion to plywood at 40°F (4°C) (lbf/ft-width)	D903	Min. 2
Thermal stability (mm)	D1204	Max. 3
Low temperature flexibility -20°F (-29°C)	D1970	Pass
Tear resistance MD (lbf)	D4073	Min. 20
Tear resistance CMD (lbf)	D4073	Min. 20
Moisture vapor permeance (U.S. Perms)	E96 A	Max 0.1
Sealability around nail	D1970	Pass
Waterproof integrity after low temperature flexibility	D1970	Pass
Waterproof integrity of lap seam	D1970	Pass



To learn more about the Lifetime Roofing System visit **gaf.com/Lifetime**





Product Details:

Nominal Specifications:
For use with asphalt shingles

1.5 square roll:*

- 150 ft² (13.94 sq. m) per roll
- Roll width: 36" (.914 m)
- Roll length: 50' (15.24 m)

2.0 square roll:*

- 200 ft² (18.58 sq. m) per roll*
- Roll width: 36" (.914 m)
- Roll length: 66.7' (20.33 m)
- UV exposure: Up to 60 days, if necessary
- Shelf life: Best if used within 1 year from date of manufacture

*Excludes laps

Code Approvals:

- Meets or exceeds the performance criteria of ASTM D1970
- Miami-Dade County Product Control Approved
- State of Florida approved
- Component of a UL Listed ANSI/UL 790 Class A system when used with UL Class A shingles⁴
- ICC-ES Evaluation Report (ESR-1322)
- ¹ Check local building codes for requirements in your area.
 ² Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence (or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only, Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime Shingle and any 3 qualifying GAF Accessories. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf com/LRS for qualifying GAF products. For installations not eligible for the GAF Roofing System Limited Warranty, see the GAF Shingle & Accessory Limited Warranty.
- ³ Source: International Building Code (IBC) and International Residential Code (IRC)
- ⁴ Refer to UL Online Certification Directory for actual assemblies





Cobra®SnowCountry® Exhaust Vent for Roof Ridge

Remove excess heat and moisture from your attic and protect your roof system from premature deterioration



- Improve energy efficiency by reducing attic heat and reducing your summer air-conditioning load
- Limit the growth of harmful mold and mildew
- Minimize peeling of paint inside and out



Cobra® SnowCountry® **Exhaust Vent for Roof Ridge**

Benefits:

- Allows heat and moisture to escape at the most effective location—the ridge
- Shingle-over design blends into the ridge line
- Engineered for durability with high-impact UV-resistant polymers
- **External baffles** with crush-resistant internal structure
- Snow Guard[™] Filter helps resist snow. pine needle, and insect infiltration while avoiding dust clogging meets the requirements of ICC Dust Exposure testing¹

- Unique EasyTear® Sizing Feature allows you to hand-tear the vent in 3" (76 mm) increments — no cutting and less waste
- Passes the 110 mph wind-driven rain test²
- Eligible for up to a Lifetime† limited warranty. It's also an eligible accessory product in the Attic Ventilation category of GAF residential enhanced warranties.

Product details:

For use in colder climates

- 11.5" (292 mm) width for 12" (305 mm) width ridge cap shingles
- 18 sq. inches per lineal foot (38,100 mm per lineal meter) of net free ventilating area
- Hand nail installation
- For roof pitches 3:12 to 16:12

Code Approvals & Standards:

- Miami-Dade County Product Control Approved
- State of Florida Approved
- UL FR15072-01
- Texas Department of Insurance Product Evaluation RV-29
- CCMC 14083-R
- UL Listed to ANSI/UL 790 Class C³

Balanced Ventilation:

Balanced attic ventilation means there's an equal amount of air entering it as there is exiting it. The amount of exhaust ventilation must never exceed the amount of intake ventilation at the soffits or eaves. GAF recommends a minimum of 1 sq. ft. of net free ventilation for every 300 sq. ft. of attic floor space. Always

consult local building codes for specific ventilation requirements.

How Much Do I Need?

Calculate the total square footage of your attic floor space and then review the chart below for how much Cobra® SnowCountry® Exhaust Vent for Roof Ridge is needed:

Total attic sq. footage	Recommended Length of Cobra® SnowCountry® Exhaust Vent (ft.)	Minimum Intake Ventilation (net free area in sq. in.)		
1,600	22	396		
1,900	26	468		
2,200	30	540		
2,500	34	612		
2,800	38	684		
3,100	42	756		
3,400	46	828		

Note: Chart above based on 1/300 rule. Always have a balanced attic ventilation system. In no case should the amount of exhaust ventilation at or near the ridge exceed the amount of intake ventilation at or near the soffit. Visit gaf.com/ventcalculator for more details.



- 1. Warm, moist air escapes attic through Cobra® SnowCountry® Exhaust Vent for Roof Ridge (installed under ridge cap shingles)
- 2. Fresh air enters attic through intake vent at the soffit or eave
- * Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence for eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/ structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only. See the GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products.
- 1 Tested in accordance with ICC AC132, Section 4.2.
- ² Under controlled laboratory testing conducted by GAF ³ Refer to UL Online Certification Directory for actual assemblies



To learn more about the Lifetime[†] Roofing System visit gaf.com/Lifetime









Silver Pledge™ **Limited Warranty**



The Legal Stuff

What Is Covered/Excluded. This Silver Pledge" Limited Warranty covers certain GAF roofing products installed on your roof (the "GAF Products") including GAF Asphaltic Shingles, GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Leak Barrier Products, GAF Roof Deck Protection Products, GAF Cobra® Attic Ventilation Products, and GAF-labeled Ultimate Pipe Flashing® with EasySleeve® (manufacturing defect. Misapplication of your GAF Products and flashings at valleys, dormers, chimneys, and plumbing vents (the "Covered Flashings") is also covered. Note: This limited warranty does not cover low-slope membranes, Master Flow® Ventilation Products, or GAF ThermaCal® Ventilated Nail Base Roof Insulation. Please go to gaf.com for a copy of the limited warranties covering these products.

How Long Your Warranty Lasts

	Manufacturing	Defect Coverage	Wind	Warranty Coverage	Algae Warranty Coverage		
GAF Shingles	Limited Warranty Term	Smart Choice® Protection Period**	Limited Warranty Term	Wind Speed Coverage (mph / km/h)	Limited Warranty Term	Smart Choice® Protection Period**	Misapplication Coverage
LayerLock™-labeled Timberline® Shingles	Lifetime [†]	50 Years	15 Years	WindProven™ Limited Wind Warranty***: No maximum wind speed.	StainGuard Plus™: 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
				For all other installations: With Special Installation****: 130/209			
				Without Special Installation****: 110/175			
Lifetime [†] Shingles	Lifetime [†]	50 Years	15 Years	With Special Installation****: 130/209	StainGuard Plus™: 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
				Without Special Installation****: 110/175	StainGuard®: 10 Years	StainGuard*: 1 Year	
Marquis WeatherMax®	30 Years	20 Years	15 Years	80/130	No coverage	No coverage	10 Years
Royal Sovereign®	25 Years	20 Years	15 Years	60/96	StainGuard®: 10 Years	StainGuard®:	10 Years
			Wind	Warranty Coverage	Algae Warra	inty Coverage	
GAF Ridge Cap Shingles	Manufact Cov	uring Defect rerage	Limited Warranty Term	Wind Speed Coverage (mph / km/h)	Limited Warranty Term	Smart Choice® Protection Period®®	Misapplication Coverage
TimberTex®, Ridglass®, TimberCrest®	Limited Warranty Term and Smart Choice® Protection Period®® lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.		15 Years	With Special Installation****: 130/209 Without Special Installation****: 110/175	StainGuard Plus ⁿ : 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
Seal-A-Ridge®, Seal-A-Ridge® AS	Limited Warranty Term and Smart Choice* Protection Period** lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.		15 Years	90/144	StainGuard Plus™: 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
Z® Ridge	Limited Warranty Choice® Protection	Term and Smart on Period** lasts as ty for manufacturing e of shingle installed	15 Years	With Special Installation***: 90/144 Without Special Installation***: 70/112	StainGuard Plus™: 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
CAE Chautou Chrin					Algae Warra	inty Coverage	
GAF Starter Strip Shingles	Manufacturing	Defect Coverage	Wind	Warranty Coverage	Limited Warranty Term	Smart Choice® Protection Period**	Misapplication Coverage
StarterMatch®	Limited Warranty Term and Smart Choice® Protection Period® lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.		No coverage		StainGuard Plus™: 25 Years	StainGuard Plus™: 15* / 10 Years	10 Years
All Other GAF Starter Strip Shingles	Limited Warranty Term and Smart Choice® Protection Period® lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.		, No coverage		No coverage	No coverage	10 Years
Other GAF Accessories	Manufacturing	Defect Coverage	Wind	Warranty Coverage	Algae Warra	inty Coverage	Misapplication Coverage
GAF Leak Barrier Products	Limited Warranty		No coverage		No coverage		10 Years
GAF Roof Deck Protection Products	long as the warran	on Period** lasts as ty for manufacturing to of shingle installed					
GAF Cobra® Attic Ventilation Products	3, 110, 10						

- † Definition of Lifetime: The word "Lifetime" means as long as you, the original owner(s) for the second owner(s) if coverage was properly transferred within the first 20 years), own the property where the shingles and/or accessories are installed. The Lifetime warranty term and 50 year on-prorated period are opinicable only to shingles and accessories installed on a single-family detached residence owned by individuals. For any other type of owner or building, such as a corporation, governmental entity, religious entity, condominium or homeware associations, school, apartment building, affect building, affect
- **IS-year Smart Choice** Protection Period for SlainQuard Plus** Aligae Protection Limited applies only it you install point stand pound stand pound in the coverage provided for in this limited warranty is non-prorated. After the Smart Choice** Protection Period: refers to the crucial period of time following installation of the 6AF Products during which the coverage provided for in this limited warranty is non-prorated. After the Smart Choice** Protection Period.

 Smart Choice Protection Period: refers to the crucial period of time following installation of the date of smart Choice** Protection Period.

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Who Is Covered by This Limited Warranty; Transferability
You are covered by this limited warranty if you live in the United States or Canada and are the original property owner (i.e., not a builder or installer) or the first subsequent owner if this warranty was properly transferred.

This limited warranty may be transferred only once. The second owner must notify GAF in writing within one year after the property transfer for warranty coverage to be transferred. (Other than this one transfer, this warranty may not be transferred or assigned, directly or indirectly.) If the transfer takes place within the first 20 years after installation, the second owner is entitled to the same coverage as the original owner. If the transfer takes place offerwards, the length of this warranty shall be reduced to the two-year period after the ownership changes. During this two-year period, GAF's reimbursement to the second owner will be based only on the reasonable cost of replacement GAF Products, reduced by the amount of use that has been received from the GAF Products from date of installation through the date of claim.

Manufacturing Defects: What Is Covered/Sole and Exclusive Remedy
GAF Warranty Company, LLC, a subsidiary of GAF, warrants that your GAF Products will remain free from manufacturing defects that adversely affect their performance during the applicable warranty term listed above. Note: Wind Warranty and Algae Warranty are covered separately below.

(1) During the Smart Choice® Protection Period: GAF will pay you the full reasonable cost of labor to repair or re-cover any defective GAF Product(s) (excluding non-GAF accessories, metal work, or flashings other than Covered Flashings), and will provide replacement GAF Products or the reasonable cost of obtaining replacement GAF Products, at GAF's option. The costs of labor to tear off some or all of your GAF Products and disposal are included if necessary to repair your roof.

(2) After the Smart Choice* Protection Period: The repair or re-cover cost, replacement GAF Products, or reimbursement provided to you will be reduced to reflect the use you have re-ceived from your GAF Products. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the warranty term. For a Lifetime! warranty, GAF's contribution in years 51 and beyond is 20%. After the non-prorated period, GAF's maximum liability for any roof shall NOT exceed three times the reasonable cost of replacement GAF Products before any reduction for use. continued on next page





continued from previous page

WindProven™ Limited Wind Warranty: What Is Covered/Sole and Exclusive Remedy

WindProven" Limited Wind Warranty: What Is Covered/Sole and Exclusive Remedy
This limited worranty is specifically conditioned on your meeting all eligibility requirements, including installation of LayerLock"-labeled shingles, GAF Ridge Cap Shingles, GAF Starter
Strip Shingles, and a GAF Roof Deck Protection Product, plus your choice of either a GAF Leak Barrier Product or GAF Attic Ventilation Product, and your LayerLock"-labeled shingles
being fastened and installed strictly in accordance with GAF's application instructions. For installations which do not meet these eligibility requirements, see Wind Warranty section
below. The limited warranty applies only to your LayerLock"-labeled shingles and does not apply to any GAF Accessory Products. GAF warrants to you that your LayerLock"-labeled
shingles will not fail to seal, blow off, or sustain damage from winds (including gusts) after they should have sealed but did not due to a manufacturing defect. If your LayerLock"-labeled
shingles of offil to seal, blow off, or sustain damage from winds (including gusts) after they should have sealed but did not due to a manufacturing defect. If your LayerLock"-labeled
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shingles of offil to seal, blow off, or sustain damage from winds (including gusts) after they should have sealed but did not due to a manufacturing defect. If your LayerLock"-labeled
shingles of offil to seal, blow off, or sustain damage, GAF will reimburse you for the reasonable costs of replacing the blown-off or damaged shingles and hand-sealing any unsealed
shingles. Costs related to underlayment, metal work, and flashings are not included. GAF's maximum liability under this paragraph is to reimburse you for the cost of hand-sealing and the LayerLock™-labeled shingles on your roof.

Wind Warranty: What Is Covered/Sole and Exclusive Remedy

GAF warrants to you that your GAF shingles and ridge cap shingles will not fail to seal, blow off, or sustain damage from winds (including gusts) up to the applicable wind speed listed
above after they should have sealed but did not due to a manufacturing defect or their misapplication. If your shingles or ridge cap shingles do fail to seal, blow off, or suffer wind damage,
GAF will reimburse you for the reasonable costs of replacing the blown-off shingles or ridge cap shingles and hand-sealing any unsealed shingles or ridge cap
shingles. Costs relating to metal work and flashings (other than Covered Flashings) are not included. GAF's maximum liability under this paragraph is to reimburse you for the cost of hand-sealing all of the shingles and ridge cap shingles on your roof.

Algae Warranty: What Is Covered/Sole and Exclusive Remedy

This limited warranty applies only to shingles, ridge cap shingles, and starter strip shingles sold in packages bearing the StainGuard Plus" or StainGuard* logos. GAF warrants to you that blue-green algae (also known as cyanobacteria) will not cause a pronounced discoloration of your StainGuard Plus"- or StainGuard*-labeled shingles, ridge cap shingles, or starter strip shingles for the warranty term listed above. If your StainGuard Plus"-labeled of StainGuard*-labeled shingles, ridge cap shingles, or starter strip shingles exhibit a pronounced discoloration caused by blue-green algae during the Smart Choice* Protection Period listed above, GAF's contribution will be either the reasonable cost of commercially cleaning your shingles, or starter strip shingles. The maximum cost to GAF shall be the lesser of the original cost of the affected shingles, ridge cap shingles, or starter strip shingles. The maximum cost to GAF shall be the lesser of the original cost of the affected shingles, ridge cap shingles, or starter strip shingles. During the remainder of the limited warranty period, GAF's contribution to you will be reduced to reflect the amount of use you have received from your shingles, ridge cap shingles, or starter strip shingles since they were installed. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the Algae Warranty term.

Nater Prevention pronounced dispose ridge cap shingles, ridge cap shingles, ridge starter strip shingles is replayed through formulations or through unique.

Note: Preventing pronounced algae-related discoloration of your shingles, ridge cap shingles, and starter strip shingles is achieved through formulations or through unique blends of granules.

Misapplication: What Is Covered/Sole and Exclusive Remedy

If any of your GAF Products or Covered Flashings is found to have an application error that adversely affects performance, GAF will arrange to have your roof repaired or re-covered or, at its sole option, will provide you with replacement GAF product(s) and reimburse you for the full reasonable cost of labor and other materials to repair or re-cover your roof, including Covered Flashings. The costs of labor to tear off some or all of your GAF Products and Covered Flashings and disposal are included if necessary to repair your roof.

If your claim arises out of an application error in your GAF Products or Covered Flashings, which is discovered or discoverable within the first two years after installation, it is the obligation of your Master Elite* Roofing Contractor to make all necessary repairs. In the event that GAF determines your Master Elite* Roofing Contractor is unable or unwilling to perform these repairs, GAF will arrange to have your roof repaired if the issues were caused by application errors within the scope of GAF liability under this limited warranty.

Note: Failure to install adequate ventilation is NOT an application error of your GAF Products and is not covered under this Limited Warranty. Due to the design of certain buildings, the replacement of existing flashings may be difficult, costly, or impractical. Please be sure to review these items with your roofing contractor.

What Is Not Covered

Even if your GAF products were not properly installed according to GAF's application instructions or to standard good roofing practices, this limited warranty remains in effect. However, GAF will NOT be liable for and this warranty does NOT apply to:

- (1) Damage resulting from anything other than an inherent manufacturing defect in the GAF Products, their misapplication, or the misapplication of Covered Flashings, such as:
 - (a) settlement, movement, structural damage, or defects in the building, walls, foundation, or the roof base over which the shingles or accessories were applied
- (2) Damage resulting from causes beyond normal wear and tear, such as:
 - (a) acts of nature, such as hail, fire, or winds (including gusts) over the applicable wind speed listed above except there is no maximum wind speed restriction for shingles covered by the WindProven™ Limited Wind Warranty
 - (b) impact of traffic on the roof or foreign objects, including damage caused by objects blown onto the roof by wind.
 - (c) improper storage or handling of the GAF Products.
- (3) (se damming, except for leaks in the area of your roof covered by a GAF Leak Barrier which are caused by a manufacturing defect in your GAF Leak Barrier, its misapplication, or the misapplication of Covered Flashings.
- (4) Shading or variations in the color of your GAF Products or discoloration or contamination caused by fungus, mold, lichen, algae (except for blue-green algae if your shingles, ridge cap shingles, or starter strip shingles were labeled with the StainGuard Plus[™] or StainGuard* logos), or other contaminants, including that caused by organic materials on the roof.
- (5) Damage caused by, or the cost to repair or replace, products not sold by GAF, including but not limited to metal work and counterflashing.
- (6) Improperly designed or installed gutter or downspout systems.
- (7) Damage to the interior or exterior of the building, including, but not limited to, mold growth.
- (8) Damage to or caused by rooftop air conditioning units (and their flashing), pipe works, brace works, skylights, rooftop satellite dishes or other radio/TV devices, counterflashing, or flashings other than those specifically included above.

Other Limitations Concerning Coverage

Decisions as to the extent of repair, re-cover, or cleaning required, and the reasonable cost of such work, will be made solely by GAF. GAF reserves the right to arrange directly for your GAF Products to be repaired, re-covered, or cleaned instead of reimbursing you for such work. The remedy under this warranty is available only for those GAF Products actually exhibiting manufacturing defects, application errors (including misapplication of Covered Flashings), or algae discoloration at the time your claim is settled. Any replacement GAF Products will be warranted only for the remainder of the original warranty period. GAF reserves the right to discontinue or modify its shingles or accessories, including the colors available, so any replacement GAF Products may not be an exact match for the GAF Products on your roof. Even if GAF does not modify a color, replacement GAF Products may not match your original GAF Products due to normal weathering, manufacturing variations, or other factors.

Claims: What You Must Do

You mush roth (GAF about any claim within 30 days after you notice a problem. You may report a claim online at gaf.com/contact, by calling GAF at 1-800-458-1860, sending an email to warrantyclaims@gaf.com, or by sending a notice in writing to: GAF, Warranty Claims Department, 1 Campus Drive, Parsippany, NJ 07054, USA. You will then be provided with complete details about submitting your claim. You may be required to send to GAF, at your expense, photographs and sample products for testing. Within a reasonable time after proper notification, GAF will evaluate your claim and resolve it in accordance with the terms of this limited warranty. If you repair or replace your GAF Products before you notify GAF about your claim or before GAF has completed its evaluation of your claim, your claim may be denied. If you need to repair or replace your GAF Products before your claim is resolved, you MUST provide GAF with reasonable notice. NOTE: Notice to your contractor, dealer, or home builder is NOT notice to GAF. You should retain this document for your records in the unlikely event that you need

to file a claim.

Sole and Exclusive Warranty

This LIMITED WARRANTY IS EXCLUSIVE AND REPLACES ALL OTHER WARRANTIES, CONDITIONS, REPRESENTATIONS, AND GUARANTEES, WHETHER EXPRESS OR IMPLIED, WHETHER BY STATUTE, AT LAW OR IN EQUITY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limited warranty is your exclusive warranty from GAF and represents the SOLE REMEDY available to any owner of GAF Products, GAF makes NO OTHER REPRESENTATIONS, CONDITIONS, GUARANTIES, OR WARRANTIES of any kind other than that stated herein. GAF WILL NOT BE LIABLE IN ANY EVENT FOR CONSEQUENTIAL, PUNITIVE, SPECIAL, INCIDENTIAL, OR OTHER SIMILIAR DAMAGES OF ANY KIND, including DAMAGE TO THE INTERIOR OR EXTERIOR OF ANY BUILDING, whether any claim against it is based upon breach of this warranty, negligence, strict liability in tort, or for any other cause. This limited warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction. Some jurisdictions do not allow limitations on or the exclusions may not apply to you. New Jersey state residents are encouraged to review their rights under the agreement, as provided under the New Jersey Truth-In-Consumer Contract Warranty and Notice Act (*TCCWNA*).

The Linited Nations Convention on Contracts for the International Sale of Goods shall NOT apply either to the sale of the GAF Products or to this limited warranty.

Modification of Warranty
This limited warranty may not be changed or modified except in writing, signed by an officer of GAF. No one (other than an officer of GAF) has the authority to assume any additional or other liability or responsibility for GAF in connection with your GAF Products and Covered Flashings except as described in this limited warranty.

This limited warranty will not take effect unless all eligibility requirements have been satisfied, this warranty is registered to you, and your roofing contractor has been paid in full.

THIS IS A SAMPLE SILVER PLEDGE" LIMITED WARRANTY. IT IS YOUR CONTRACTOR'S RESPONSIBILITY TO REGISTER YOUR WARRANTY WITHIN 45 DAYS OF INSTALLATION. IF YOU HAVE NOT RECEIVED YOUR WARRANTY FROM GAF WITHIN 60 DAYS, YOU SHOULD CALL GAF AT: 1-888-532-5767, OPTION 5.



2.5	THICKNESS 0.014	COLOR WA BK TB	SKU BA F50150••4	PACKAGING 50	
0.149	ALUNIMUM O'O'O		BA F50150••6	50	
F5 1½" FACE DRIP EDGE	0.016	WA BK TB	ва F50175••6	50	
F5 134" FACE DRIP EDGE	ALUMINUM				
mm	0.016	WA BA	F-5••6	50	
33/16"	0.019	Mill Finish	F-5MFB	50	
3/4"	0.019 0.019	WA BA AL	AM F-5••B	50	
F5 DRIP EDGE) A	HG LI LM	HC NB BK		
}	0.024	~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~25~~~)
}	16 Oz	Copper	F-5CPB	15	}
\	28 Gay X X	x Galvanized	LL DSALALLA	· · · · · · · · · · · · · · · · · · ·	3
	28 Ga	W B	F-5•SB	20	
	5 29 Ga	White	5761500120	25	
27/8"	0.0125	Mill Finish	F5OMF2	50	
5/16	0.0125	WB	F50•A2	50	
11/16"	0.016	WA BA BK	F5O••6	50	
- / _{1/4"}	₹ 0.019	Mill Finish	F50MFB	50	
F5 OPEN DRIP EDGE	0.019	WB	F5O•AB	50	
	16 Oz	Copper	F5OCPB	10	
3513.	0.0125	WB	F550-2	50	
11/4"	WOUND 0.016	W B	F550•6	50	
F5 ½ DRIP EDGE	0.019	Mill Finish	F550MF	50	

	THICKNESS	WIDTH	LENGTH	COLOR	SKU PA	ACKAGING
	0.019	6"	8"	Mill Finish	STBB68	500
	0.019	5"	7"	Mill Finish	STFLMF	500
	0.019 0.019	6"	8"	Mill Finish	STMF68	500
	0.019	7"	10"	MIII Finish	SFM710	500
	0.019	8"	10"	Mill Finish	SFM810	500
STEP FLASHING (FLAT)	0.019	5"	7"	ВК	STFLBB	500
	16.0z	5"	7"	Copper	STFLCP	100
	16 Oz	8"	10"	Copper	SFC810	100

\sim	THICKNESS	WIDTH	HEIGHT	LENGTH	COLOR	SKU	PKG
	0.011	2"	3"	7"	Mill Finish	SFM237	500
}	0.011	2.5"	2.5"	7"	Mill Finish	SFM227	500
	0.011	3"	3"	8"	Mill Finish	SFM338	500
5	0.011	3"	4"	7"	Mill Finish	SFM347	500
	0.011	4"	4"	8"	Mill Finish	SFM448	250
STEP FLASHING PRE-BENT	0.011	5"	5"	7"	Mill Finish	SFM557	250
PRE-BENT	0.011	5"	5"	8"	Mill Finish	SFM558	250
5	0.011	6"	6"	2"	WBK	SFM662	250
	0.011	2"	3"	7"	WBK	SF•237	500
> \alpha	0.011	2.5"	2.5"	7"	W B K Z	SF•227	500
}	0.011	3"	3"	8"	WBK	SF•338	500
5	0.011	3"	4"	7"	W B K Z	SF•347	500
}	0.011	3"	5"	8"	WBK	SF•358	500
}	0.011	4"	4"	8"	W B K Z	SF•448	500
7	0.011	5"	5"	7"	WBK	SF•557	250
()	0.011	5"	5"	8"	WBK	SF•558	250
\(\)	0.011	6"	6"	2"	WBK	SF•662	250
}	16 Oz	2.5"	2.5"	7"	Copper	SFC227	100
2	16 Oz	2"	3"	7"	Copper	SFC237	100
()	16 Oz	3"	4"	7"	Copper	SFC347	100
\(\)	1602 Y	A"	8"	\(\sigma_{\mathreal}\)	Copper	YSF(C462Y	25~
}	16 Oz	5"	5"	8"	Copper	SFC558	50
Carrier	16 9z · ·	6"	ري س	200	Codpe	SFC662	12311
	30 Ga	4"	4"	7"	Galvanized	SFG447	100
STEEL	30 Ga	5"	5 "	7"	Galvanized	SFG557	100



CONTINUED

THICKNESS	WIDTH	COLOR	SKU	PACKAGING
16 Oz	8"	Copper	CPEV08	100 lbs / roll
16 Oz	10"	Copper	CPEV10	100 lbs / roll
16 Oz	12"	Copper	CPEV12	100 lbs / roll
16 Oz	14"	Copper	CPEV14	100 lbs / roll
16 Oz	16"	Copper	CPEV16	100 lbs / roll
16 Oz	18"	Copper	CPEV18	100 lbs / roll
16,0z~~	~20"~~	Copper	CPEV2Q	100 lbs/roll
16 Oz	24"	Copper	CPEV24	100 lbs / roll
320000		Malkaniked	1700061	1150/46H11
32 Ga	8"	Galvanized	70008	50' / roll
32 Ga	10"	Galvanized	70010	50' / roll
32 Ga	12"	Galvanized	70012	50' / roll
32 Ga	14"	Galvanized	70014	50' / roll
32 Ga	16"	Galvanized	70016	50' / roll
32 Ga	18"	Galvanized	70020	50' / roll
32 Ga	20"	Galvanized	70024	50' / roll
32 Ga	24"	Galvanized	70028	50' / roll



DOWNSPOUT

SIZE 3"	THICKNESS 0.019	COLOR HG BZ AL	SKU DSRCP••3	PACKAGING
		ADB BL LI DB HC HB LM MB AMB NC PB RB SW		
4"	0.024	HG BZ AL ADB BL LI DB HC HB LM MB AMB NC PB RB	DSRCP••4	10
3"	0.019	Mill Finish	DSRCPMF3	10
4"	0.024	Mill Finish	DSRCPMF4	10
5"	0.024	Mill Finish	DSRCPMF5	5
6"	0.024	Mill Finish	DSRCPMF6	5
3"	16 Oz	Copper	DSRCPCP3	5
3"	16 Oz	Copper	DSRCPFG3	5
3"	20 Oz	Copper	DSRCP2C3	5
44	1805	Copper	DSRCPCP4	C_2
4"	16 Oz	Copper	DSRCPFG4	5
A"V	2902	Capper	DSRCP2C4	كىكى
5"	16 Oz	Copper	DSRCPCP5	5
5"	20 Oz	Copper	DSRCP2C5	5
6"	16 Oz	Copper	DSRCPCP6	3
3"	24 Ga	Galvanized	DSRCP243	1
3"	24 Ga	Paint Grip	DSRCPPG3	1
3"	24 Ga	Stainless	DSRCPSS3	10
3"	26 Ga	Galvanized	DSRCP263	1
3"	28 Ga	Galvanized	DSRCP283	1
3"	30 Ga	Galvanized	DSRCPSG3	1
4"	24 Ga	Galvanized	DSRCP244	1
4"	26 Ga	Galvanized	DSRCP264	1
4"	26 Ga	Paint Grip	DSRCPPG4	1

GUTTERS: HALF-ROUND GUTTERS

MATERIALS & PACKAGING:



COPPER

STEEL

All thicknesses and dimensions are nominal.

Gutters are available in 10', 20' and 30' lengths. Contact Customer Care for nonstandard lengths.

For proper ordering, enter length code ($_$) and color code (\cdot \cdot). For example: $K__ \cdot \cdot 5$ filled out as K10BR5 would be a 5" Aluminum Painted Brown 10' hemback K-style gutter.

Partial carton quantities available for gutter products, additional fee applies.

Note: FreedomGray $^{\text{m}}$ is copper-coated with a unique, patented tin-zinc alloy. It offers all the advantages of copper in a naturally weathering earth tone gray color.



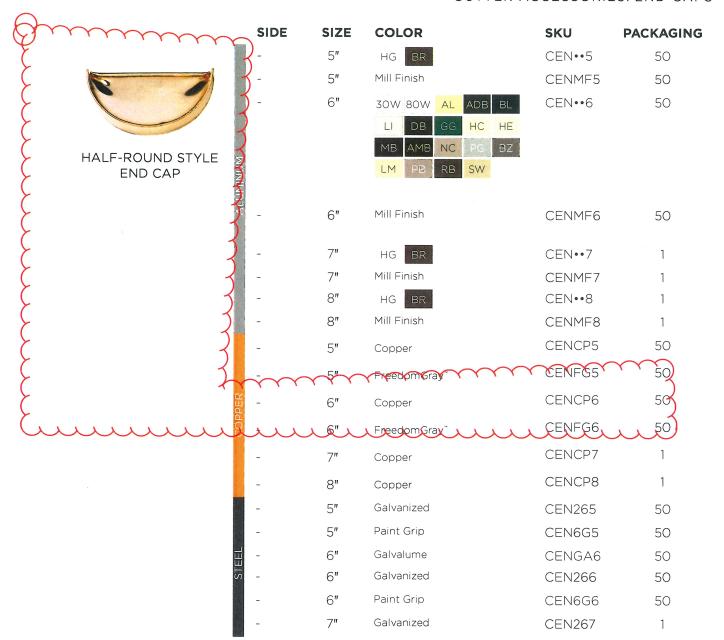
SINGLE BEAD

SIZE	THICKNESS	COLOR	SKU	PACKAGING
5"	0.024	Mill Finish	LMF5	10
5"	0.027	HG BR	L••5	10
5"	0.032	32 B3	L••5	10
6"	0.032	Mill Finish	LMF6	10
6"	0.032	HG BR	L••6	10
7"	0.032	HG BR	L10••7	5
8"	0.032	HG BR	L10••8	5
5"	16 Oz	Copper	LCP5	5
5"	16 Oz	FreedomGray™	LFG5	5
5"	20 Oz	Copper	L2C5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
6"	16 Oz	Copper	LCP6	5
76%	16 OZ	FreedomGray	L_FG6	menn
6"	20 Oz	Copper	LC26	5
7"	16 Oz	Copper	L10CP7	5
8"	16 Oz	Copper	L10CP8	5



PLAIN ROUND						
ELBOW						
CONTINUED						

	SIZE	DEGREE	THICKNESS	COLOR	SKU	PACKAGING
はは大田田の大田の大田の大田の大田の大田の大田の大田の大田の大田の大田の大田の大田の	3"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	16 Oz	Copper	PR _ CP3	10
AND DESCRIPTION OF THE PARTY OF	3"	30° - 0 45° - 1 60° - 2	16 Oz	Copper	PR_FG3	10
SCHOOL STATE		90° - 4			\sim	
2	4"	30° - 0 45° - 1 60° - 2 75° - 3	16 Oz	Copper	PR_CP4	10
OPPE	4"	90° - 4 30° - 0	16 Qz ,	Copper	PR_FG4	<u> </u>
		60° - 2 75° - 3 90° - 4	10.0	Connec		10
STATE OF THE PROPERTY OF THE PARTY.	5"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	16 Oz	Copper	PR _ CP5	10
	6"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	16 Oz	Copper	PR_CP6	10
	3"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	26 Ga	Paint Grip	PR6_ G3	20
	4"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	26 Ga	Paint Grip	PR6_ G4	20
STEFL	3"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	26 Ga	Galvanized	PR6_ P3	20
	4"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	26 Ga	Galvanized	PR6_ G4	20
	4"	30° - 0 45° - 1 60° - 2 75° - 3 90° - 4	26 Ga	Galvalume	PR_GA4	20

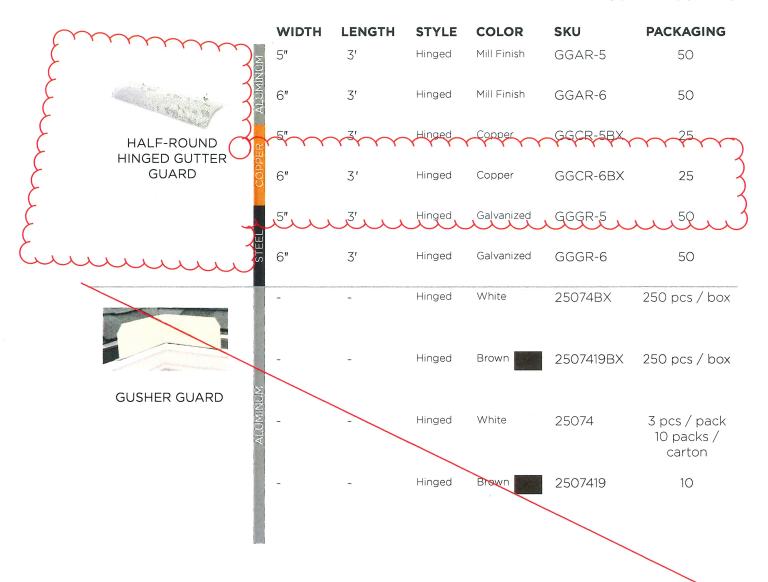


(V)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	110113			
Ji.)	SIZE	COLOR	SKU	PACKAGING
>	er j	6"	Mill Finish	CIRMF6	50
4		5"	Mill Finish	CIRMF5	50
2	GEM CIRCLE WITH	6"	80W BA	CIR••6	50
>	SPRING CLIP, NUT &) BOLT	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y8aW BA	CHR-FYYY	~~50~~~~
2		6"	Copper	CIRCP6	50
	mmm	130000	Copper	CIRCR5	50
		6"	FreedomGray [™]	CIRFG6	50
		5"	FreedomGray	CIRFG5	50
		6"	WS BS	CIR••6	50
		5"	WS BS	CIR••5	50
	Z	6"	Galvanized	CIRCS6	50
		5"	Galvanized	CIRCS5	50
		6"	Mill Finish	CCA106	50
	d	5"	Mill Finish	CCA105	50
		6"	80W BA	CBC••6	50
	#10 COMBINATION	5"	80W BA	CBC••5	50
	CIRCLE & SHANK WITH SPRING CLIP	6"	Copper	CCC106	50
	H d d C	5"	Copper	CCC105	50
		6"	Steel	CCSWS6	50
		5"	Steel	CCSWS5	50
		6"	Steel	CCS106	50
		5"	Steel	CCS105	50

_	COLOR	SKU	PACKAGING
Ę	Mill Finish	SHMF-1	50
A UMINOM	HG BA	SH••-1	50
	Copper	SHCP-1	50
#1 SHANK	FreedomGray™	SHFG-1	50
STEEL	Galvanized	SHCS-1	50
24	Copper	SHCP-6	50
000000000000000000000000000000000000000			
#6 617VIN	Galvanized	SHCS-6	50
#6 SHANK	WS BS	SH••-6	50
ASSES.	Galvanized	SH-CM8	50
STEEL			
#8 SHANK			
OPPER THE STATE OF	Copper	SHCRIO	50
	Galvanized	SHCS10	50
#10 SHANK	WS BA	SH••10	50
AL UMINUM	HG BA	SH••11	50
<u>₹</u>	Copper	SHCP11	50
;	FreedomGray™	SHFG11	50
#11 SHANK	Galvanized	SHCS11	50
mmm.	Mill Finish	SHMF12	50
E Company	AMB BL DBZ GG	SH••12	50
	NO BA KOY HOY		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
S S S S S S S S S S S S S S S S S S S	Copper	SHCP12	50
#12 SHANK	FreedomGray™	SHEGI2	<u> </u>
	WS BA Galvanized	SH••12 SHCS12	50 50
muni g		JI ICJIZ	









Specifications-Sheathing

Plytanium® plywood sheathing is ideal for residential and light commercial construction, and provides outstanding performance for walls and roofs. It adds proven performance and durability to new homes, room additions and renovations.

Available Sizes (Sized for 4' x 8')

Square Edge

3'-11%" (1.216 m) x 7'-11%" (2.435 m)

Building Code Performance Categories, Panel Thickness

- 3/8 CAT, 0.354" (8.99 mm)
- 15/32 CAT (3-ply), 0.451" (11.45 mm)
- 15/32 CAT (4-ply), 0.451" (11.45 mm)
- 19/32 CAT, 0.578" (14.68 mm)
- 23/32 CAT, 0.703" (17.85 mm)

Specifications

Length/Width Tolerance +0, $-\frac{1}{16}$ " (+0, -1.6 mm)

Straightness Tolerance $\pm 1/16''$ (± 1.6 mm)Squareness Tolerance $\pm 1/8''$ (± 3.2 mm)

Primary Species Southern Yellow Pine

Testing Agency APA®-The Engineered Wood Association

Classifications Exposure 1 – Plywood suitable for uses not permanently exposed to the weather. Panels classified as Exposure 1 are intended to resist the effects of mositure on structural performance

as may occur due to construction delays, or other conditions of similar severity.

Code Fire Classification Class III or C

Flame Spread Rating 76-200, smoke-developed index <450

Building Code Compliance PS 1-09 or PS 2-10

Other Information

Forestry Certification Plytanium plywood panels are made from wood sourced

through a system that is third-party certified to the Sustainable Forestry Initiative® procurement standard.

Green Building ProgramsSee our Plytanium plywood *Sustainability Fact Sheet* available

at www.builditbetter.com for more information on potential point contributions towards specific green building programs.

NGBS Green Certified Plytanium plywood is Home Innovation NGBS Green Certified for Resource Efficiency and Indoor Environmental Quality

for Resource Efficiency and Indoor Environmental Quality. Please visit *Homeinnovation.com/Green* for more information.

Product Warranty Plytanium® plywood is covered by a Lifetime Limited Warranty.

For terms and conditions, please refer to our Lifetime Limited Warranty available at www.builditbetter.com.







Specifications-Sheathing

International Shipping

To prevent the introduction and spread of plant pests, *ISPM 15: International Standards for Phytosanitary Measures*, requires that internationally shipped solid wood pallets be debarked, treated with heat or fumigated with methyl bromide, and marked with a seal of compliance. **Pallets made with engineered wood, including Plytanium plywood, are exempt from ISPM 15 regulations.** This is because the process of manufacturing engineered wood destroys any live organisms in the wood. (Source: "Boxes, Crate and Reel Manufacturing," *www.PerformancePanels.com*)

Formaldehyde Emissions

Plytanium plywood contains no added urea formaldehyde resins. PS 1 and PS 2 structural panels are exempt from testing by the California Air Resources Board (CARB) in the *Composite Wood Air Toxic Control Measure (ATCM)* and phenolic bonded structural panels are exempt from testing or monitoring by HUD in the *Manufactured Home Construction and Safety Standards*.

Manufacturing Locations

Location	APA Mill Number	Zip Code	Harvest Radius
Camden, TX	515	75934	90 miles
Corrigan, TX	516	75939	90 miles
Dudley, NC	348	28333	80 miles
Emporia, VA	230	23847	40 miles
Gurdon, AR	517	71743	60 miles
Madison, GA	404	30650	100 miles
Prosperity, SC	329	29127	80 miles
Taylorsville, MS	282	39168	50 miles
Warm Springs, GA	324	31830	450 miles



PD40 Pad Style Snow Guard

SNOWGUARDS® ALPINE

Info@alpinesnowguards.com 888-766-4273

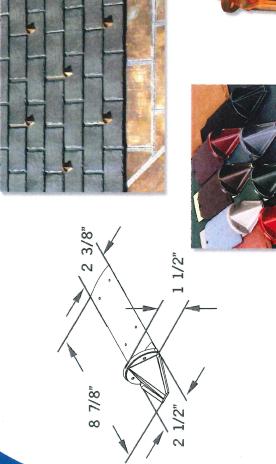
Standard Layout

2 X 4 Layout – less than 75 psf Ground Snow Load and less than 16/12 roof pitch using 12 snow guards per square.

Synthetic Slate Layout

Top ten feet of rafter does not generally require snow guards in extreme snow load areas.

2 X 4 Supplemental Pattern (Alpine's standard layout)









Three rows 24" on center horizontally with the middle row staggered 12". Standard Three-Row Pattern- For All Roofs

> Note: For 6/12 pitch or less, Shingle Layout

Ridge/Peak

The three-row pattern uses 17 snow guards for every 10' of eave (eave length (in feet) X 1.7 = qty. needed). Three-Row Pattern

Standard Three-Row Pattern 24" on center horizontally, 2 courses of shingles vertically, the second row offset 12"

Contact Alpine SnowGuards for ground snow loads above 75 PSF

Roof Types & Materials

Also available with a Fleur-de-lis embellishment in copper, lead coated copper, and

Allows snow and ice to drop off in small amounts or melt completely

Correct size for most composition shingle applications Can be mechanically attached through synthetic slate

All of our snow guards are tested extensively in the field by roofing experts

Riveted "fish head" design means optimum strength with no risk of unfolding

Made in the USA using recycled materials

Features

Available Materials:

- & Zinc (Graphite Gray)
- Aluminum (Mill or Firestone Una Clad Colors)
- FreedomGray® Z-T Alloy
- Salvalume
- Lead Coated Copper

Roof Types:

- New Synthetic Slate
- Existing Synthetic Slate

* New Composition Shingle

Existing Composition Shingle

Ask us about LEED compliance

Made in the USA

5/16/17

Useful Links Product Page Cutsheet Specifications Install Instructions (Synthetic State) Install Instructions (Shingle)



STOCK COLORS . DOUBLE SIDED







Classic Copper



Colonial Red



Dark Bronze



Hartford Green



Matte Black



Medium Bronze



Sherwood Green



Slate Gray



Mansard Brown



PD40 Medium Bronze



PD30 Classic Copper



PD30 Colonial Red



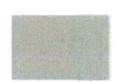
PD40 Charcoal Gray

proposed color

STOCK COLORS .. SINGLE SIDED



Brandywine



Cityscape



Dark Ivy



Hemlock Green



Patina Green



Teal



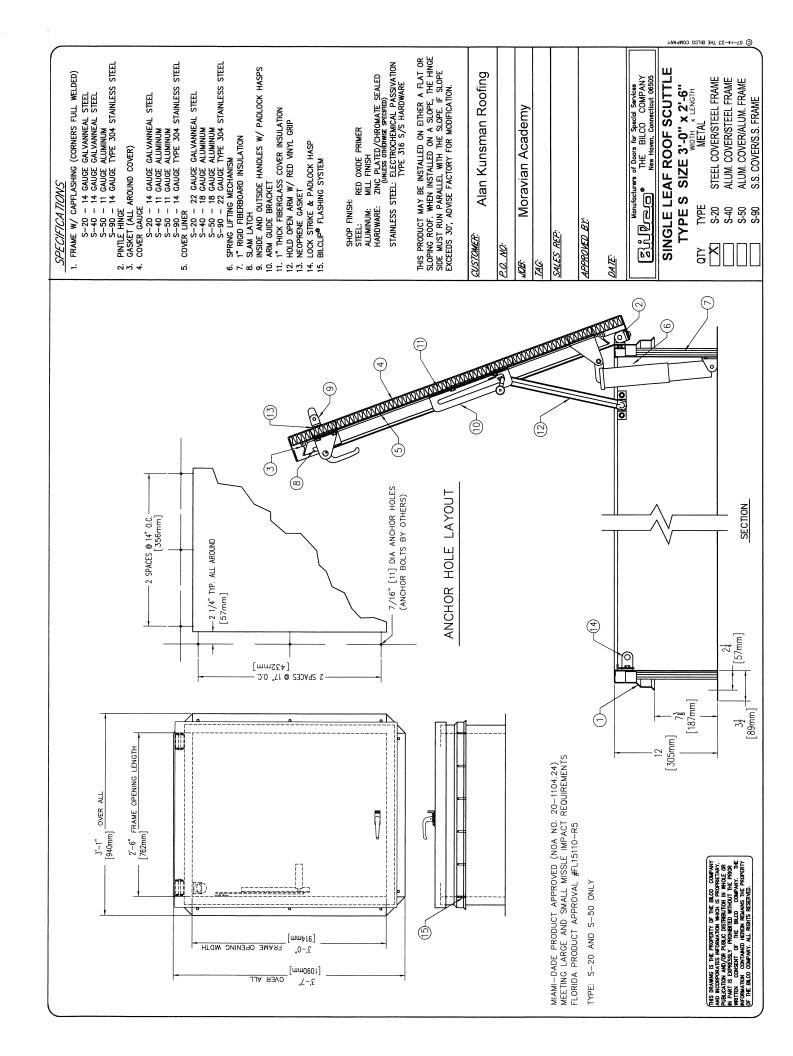
Terracotta



Tropical Patina

Select color for snow guards





Duration Home[®] Interior Latex Satin

CHARACTERISTICS

Duration Home® Interior Latex with Moisture Resistant Technology™ offering quick return

to service & durability in moist environments

· Resistant to stains, scuffs & burnishing

To optimize hide and color development, always use the

Drying and recoat times are temperature, humidity, and

oz. per gallon:

0-6

0-7

10-12

12-20

0-12

0-12

Extra White A97W01251

4-12

A97 Series

like bathrooms.

Also provides:

Washability

Color:

Coverage:

Finish:

Base:

Ultrawhite

Extra White

Deep Base

Ultradeep Base

Accent Base

Bright Yellow

Real Red

Anti-Microbial*

Long lasting beauty

recommended P-Shade primer.

Touch:

Recoat:

film thickness dependent.

Tinting with CCE only:

Drying Time, @ 77°F, 50% RH:

As of 09/19/2023, Complies with :

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	Yes
MPI [®]	Yes

Apply at temperatures above 50°F. No reduction

Use a nylon-polyester brush.

Roller: Use a high-quality polyester roller cover.

For best final appearance when rolling, finish off in one direction, especially for dark colors. For specific brushes and rollers, please refer to

Tip

APPLICATION TIPS

For touching-up, reduce the product by one pint

To assure maximum washability and durability, wait at least 14 days before washing Duration Home coating

When removing stains, dirt, and marks, use a soft cloth or sponge with water, Stubborn stains may require the use of a general-purpose household cleaner of total removal. Do not use an abrasive

Surfactant leaching is a term used when a concentration of water-soluble paint ingredients called "surfactants" are noticed on the surface of a latex paint film. Surfactant leaching is most commonly seen as a streak or stain of tan, brown, or clear spots that sometimes can be glossy, soapy, oily or even sticky. Surfactants are soaplike materials that help in the dispersion of the

Moisture Resistant **Duration Home** Technology has allowed to dry prior to apply any finish.

COMPLIANCE

Yes
Yes

APPLICATION

needed

Brush:

our Brush and Roller Guide.

Spray - Airless:

2000 p.s.i. Pressure .015-.019 inch

per gallon.

cleaner or scrub brush to remove stains.

paint's pigment and latex binders.

excellent resistance to surfactant leaching when applied on new or existing substrates. However, surfactants can remain on existing painted surfaces if not removed prior to coating. Existing painted surfaces must be thoroughly washed clean and

SPECIFICATIONS

WILLIAMS.

Duration Home Interior Latex can be used directly over existing coatings, bare drywall, or plaster (cured with a pH of less than 9).

Block:

1 coat Loxon Acrylic Block Surfacer 2 coats of Duration Home Interior Latex

Drvwall:

Self-prime using 2 coats of Duration Home Interior Latex

1 coat Premium Wall & Wood Primer 2 coats Duration Home Interior Latex

Masonry:

1 coat Loxon Concrete & Masonry Primer 2 coats Duration Home Interior Latex

Self-prime using 2 coats of Duration Home Interior Latex

1 coat Loxon Concrete & Masonry Primer 2 coats Duration Home Interior Latex

Wood:

1 coat Premium Wall & Wood Primer 2 coats Duration Home Interior Latex

If the wood has bleeding (such as tannin or knot-holes), prime with Multi-Purpose Primer.

Other primers may be appropriate.

When repainting involves a drastic color change, or coating over heavily stained areas, a coat of primer will improve the hiding performance of the topcoat color.

(may vary by color) V.O.C.(less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon As per 40 CFR 59.406

Volume Solids: Weight Solids:

37 ±2% 49 ±2%

Most Colors

1 Hour

4 Hours

15-20 units @ 85°

Strength:

SherColor

SherColor

SherColor

SherColor

SherColor

SherColor

SherColor

350-400 sq. ft. per gallon

@ 4 mils wet, 1.5 mils dry

Weight per Gallon: Flash Point:

10.50 lbs N.A.

Vehicle Type: Shelf Life:

Styrene Acrylic 36 months, unopened

Anti-microbial

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

Duration Home® Interior Latex Satin

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Caulking:

Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

Drywall:

Fill cracks and holes with patching pastespackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Masonry, Concrete, Cement, Block:

All new surfaces must be cured according to the supplier's recommendations — usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleachwater solution.

Plaster:

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clean water and allow to dry.

Wood:

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

CAUTIONS

For interior use only.
Protect from freezing.
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

CRYSTALLINE SILICA Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eves and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

HOTW 09/19/2022 A97W01251 42 33 FRC.SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

Pro Industrial™

Waterbased Alkyd Urethane Enamel Gloss

B53-1050/2050 Series



CHARACTERISTICS

Pro Industrial Waterbased Alkyd Urethane Enamel is a premium quality interior-exterior enamel formulated with a urethane modified alkyd resin system for high performance. It provides beauty and durability when applied to interior-exterior surfaces such as properly prepared drywall, wood, masonry and metal. It brings together the convenience and ease of use of a waterborne coating with the performance and coating characteristics of a traditional oilbased enamel.

Excellent washability & flow & leveling

Excellent touch up
Easy application & cleanup

Resistant to yellowing compared to traditional alkyds

Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized & Aluminum, Drywall, Concrete and Masonry, and Wood.

Finish: 75°+ @60° Color: Most colors

Recommended Spreading Rate per coat:

4.0-5.0 Wet mils: Dry mils: 1.3 - 1.6

320-394 sq.ft. per gallon Coverage:

Theoretical Coverage: 513 sq. ft. per gallon

@ 1 mil dry Approximate spreading rates are calculated on volume solids and do not include any application loss.

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of

Drying Schedule @ 4.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

@77°F

To touch 1-2 hours To recoat 4 hours

Tinting with CCE only:

Strength Base oz. per gallon Extra White 0-6SherColor SherColor Deep Base 4-12 10-14 SherColor Ultradeep Base

Extra White B53W02051

(may vary by color)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 32 ± 2% Weight Solids: 49 ± 2%

Weight per Gallon: 10.68 lb Flash Point:

Urethane modified alkyd Vehicle Type: Shelf Life: 36 months, unopened

COMPLIANCE

As of 03/10/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certification	No
MIR-Manufacturer Inventory	No
NSF® Certification	
MPI®	No

APPLICATION

Temperature:

50°F / 10°C minimum 100°F / 37.8°C maximum air, surface, and material At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Water

Airless Spray:

Pressure 2000 p.s.i. Hose 1/4 inch I.D. Tip .013 - .017 inch Filter 60 mesh Reduction Not recommended Brush Nylon-polyester **Roller Cover** 1/4-1/2 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

No painting should be done immediately after a rain or during foggy weather.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. Apply coating evenly while maintaining a wet edge to prevent lapping.

SPECIFICATIONS

Steel:

1 coat Pro Industrial Pro-Cryl Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

Aluminum and Galvanizing:

1 coat Pro Industrial Pro-Cryl Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller or Loxon Acrylic Block Surfacer

2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete-Masonry:

1 coat Loxon Concrete & Masonry Primer (if needed)

2 coats Pro Industrial Waterbased Alkyd Urethane

Drywall:

1 coat ProMar 200 Zero V.O.C. Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, exterior:

1 coat Exterior Wood Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, interior:

1 coat Premium Wall & Wood Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

The systems listed above are representative of the product's use, other systems may be appropriate.

Pro Industrial™

Waterbased Alkyd Urethane Enamel Gloss

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Do not use hydrocarbon solvents for cleaning.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Prime

the area the same day as cleaned. Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Pro industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

Wood - Surface must be clean, dry, and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

SURFACE PREPARATION

Previously Painted Surface - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Mildew- Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/ water solution.

PERFORMANCE

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

Finish:

1 coat Waterbased Alkyd Urethane, 5 W.F.T.

Adhesion:

Method: ASTM D3359 method B

Result: 4B

Pencil Hardness:

Method: ASTM D3363

Result: 5H

Flexibility:

Method: Method: ASTM D522,

180°bend, 1/4" mandrel

Result: Pass

Dry Heat Resistance:

Method: ASTM D2485

Result: 200°F

Block Resistance:

Lab assessment Excellent

Resistance to Yellowing:

Lab assessment Excellent

No painting should be done immediately after a rain or during foggy weather. Do not paint on wet surfaces.

Check adhesion by applying a test strip to determine the readiness for painting.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use. **FOR PROFESSIONAL USE ONLY.**

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

HOTW 03/10/2020 B53W01053 10 38

FRC

Loxon® XP

Waterproofing Masonry Coating-Flat

LX11-50 Series



CHARACTERISTICS

Loxon XP is an exterior, high build coating that provides excellent flexibility, durability and weather resistance. This product will protect against wind-driven rain when used on concrete, CMU, stucco and shotcrete-gunite. It is highly alkali and efflorescence resistant. This may be applied to a surface with a pH of 6 to 13.

Apply directly to fresh concrete (at least 7 days old). Shotcrete/gunite surfaces may be painted after 3 days.

Can be applied over high pH (up to 13) substrates, no primer required.

Can be applied down to 35°F.

Color: Most Colors

1 coat system, brush, roller, or spray applied, coverage per coat:

Wet mils: 14.5-18.5

Dry mils: 6.5-8.4

Coverage sq.ft. per gallon 85-110

Can be applied up to 40 mils wet.

Coverage will vary with the substrate and the texture. Coverage on porous & rough stucco 80 square feet per gallon.

Drying Schedule @ 50% RH: temperature and humidity dependent.

	@35-45°F	@ 45°F+
Touch:	6 hrs	4 hrs
Recoat:	24-48 hrs	24 hrs
ying time is temperature	, humidity, and fili	m

thickness dependent.

Finish: 0-10 units @ 85°

Tinting with CCE only:

Base		Strength
Dase	oz.per	Suengui
	gallon	
Extra White	0-6	SherColor
Deep Base	4-12	SherColor
Ultradeep	10-12	SherColor
Light Yellow	0-12	SherColor

Extra White LX11W0051

(may vary by color) **V.O.C. (less exempt solvents)**:

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: $45 \pm 2\%$ Weight Solids: $61 \pm 2\%$ Weight per Gallon:11.46 lbFlash Point:N.A.Vehicle Type:Proprietary AcrylicShelf Life:36 months, unopened

Mildew Resistant:

This coating contains agents which inhibit the growth of mildew on the surface of this coating film. Passes ASTM D3273/D3274

COMPLIANCE

As of 2/4/2022, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	N.A.
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	Yes
SWRI®- Wall Coating	Yes

APPLICATION

Temperature:

minimum 35°F
The following is a guide. Changes in pressures and tip

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Do not reduce

Airless Spray:

Pressure 2300 p.s.i.

Tip .021 inch

Brush Use a nylon/polyester
brush

Roller Cover Use a ½ to 1½ inch nap synthetic roller

cover. 2 coa

The substrate and its condition will determine the application procedure. Considerations to minimize pinholes:

- 2 coat application with overnight drying between coats
- · Spray application with backrolling
- Power rolling

Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

When the air temperature is at 35°F, substrates may be colder. Prior to painting, check to be sure the air, surface, and material temperatures are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

Do not reduce.

APPLICATION TIPS

For proper waterproofing performance and to resist alkalies, 2 coats of the coating **MUST** be applied between 14.5 -18.5 mils wet per coat.

A total dry film thickness of 13 - 16.8 mils of topcoat and a surface with 10 or less pinholes per square foot is required for a waterproofing system.

For extremely porous block a coat of Loxon Block Surfacer may be required to achieve a pinhole free surface.

For rehabilitating existing concrete water tanks, additional products may be used.

RECOMMENDED SYSTEMS

Concrete, Stucco, Concrete Block, CMU, Split-face Block, and other Cementitious surfaces

1 coat Loxon Acrylic Block Surfacer (if needed) or Loxon Conditioner (if needed)

1-2 coats Loxon XP

Previously Coated in good condition:

After power washing, apply 1 coat of Loxon XP over the surface.

Incidental Wood:

1 coat Exterior Latex Wood Primer1-2 coats Loxon XP

Incidental Metal:

(steel, galvanized, or aluminum):

- 1 coat Pro Industrial Pro-Cryl Primer
- 1-2 coats Loxon XP

Waterproofing System:

- · Two coats of topcoat
- 6.5 to 8.4 mils d.f.t. per coat
- 13 to 16.8 mils total dry film thickness
- · 10 or less pinholes per square foot

Loxon® XP

Waterproofing Masonry Coating-Flat

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Concrete, CMU, Stucco:

On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Concrete and mortar must be cured at least 7 days at 75°F. Fill bugholes, air pockets, cracks, and other voids with an elastomeric patch or sealant. Rough surfaces can be filled to provide a smooth surface.

Incidental Metal:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method. Primer required.

Incidental Wood:

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed. Primer required.

Sealing and Patching—After cleaning the surface thoroughly, prime the concrete surface with Loxon XP, apply an elastomeric patch or sealant if needed, allow to dry, then topcoat.

To improve the performance, consider:

- · Use caution when preparing the substrate to create a uniform surface.
- Cracks, crevices, and through-wall openings must be patched with an elastomeric patch or
- Fill voids and openings around window and doors with an elastomeric patch or sealant.
- Stripe coat all inside and outside corners and edges with 1 coat of Loxon XP coating.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

PHYSICAL PROPERTIES

Do not paint on wet surfaces.

LX11W0051

Wind-Driven Rain Test: Pass Method: ASTM D6904 7 day cure 2 coats Loxon XP @ 8.1 mils d.f.t. per coat

Water Vapor Permeance:

(perms) 18.03 grains/h-ft2-in Hg. ASTM D1653 7 day cure @ 73°F & 50% Method: RH: Method B, Condition A-Wet cup Loxon XP @ 8.1 mils d.f.t. per coat 2 coats Elongation:

ASTM D412, 7 day cure @ 72°F Method: & 50% RH 20 inch per minute Loxon XP @ 8.1 mils d.f.t. per coat 2 coats

Tensile Strength:

Method: ASTM D412, 7 day cure @ 72°F & 50% RH 20 inch per minute 2 coats Loxon XP @ 8.1 mils d.f.t. per coat

Flexibility:

ASTM D522, 9 mils d.f.t.,1 day cure Method: Result: Pass 1/8 inch

Alkali Resistance:

ASTM D1308, 7 day cure, Method: 11.25 mils d.f.t.

Result: Pass

Chloride Ion Permeability:

Result: 243 coulombs "Very Low" Permeability Class Result:

CO2 Diffusion (anti-carbonation):

Method: **ASTM F2476** Result: 344 meters

equivalent air thickness >50 meters to pass 8.0 g/m²/24 hrs

Crack Bridging: Class A5 Method: EN 1062-7 Method A

Result: up to 2.5 mm @-10°C Efflorescence: Method:

ASTM D7072-19 1 coat, 1 day cure, 7.2 d.f.t.

Pass

Result: Pass

Adhesion:

ASTM D4541 Method:

2 coats, 7 day cure, 7.2 d.f.t. per coat

Result: 375 average p.s.i.

CAUTIONS

For exterior use only

Protect from freezing

Non-photochemically reactive.

Not for use on horizontal surfaces (floors, roofs, decks, etc.) where water will collect.

Not for use below grade. Will not withstand hydrostatic pressure.

Before using, carefully read CAUTIONS on label

ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

HOTW 2/4/2022

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FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.