

TAMKO PRODUCT	DESCRIPTION	SPECIFICATIONS	APPLICATION METHOD	CERTIFICATIONS	PRODUCTION LOCATION
NO. 30 UL Felt	UL organic felt used as an underlayment under asphalt shingles.	36" x 72', 2 square (216 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D226, Type II UL Built-UP Type 30 Label Florida Building Code	Joplin, Frederick, Tuscaloosa, Green Cove Springs
NO. 30 ASTM Felt	ASTM organic felt used as an underlayment under asphalt shingles.	36" x 72', 2 square (216 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D226, Type II UL Prepared Roofing Accessory (Green Cove Springs only) Florida Building Code	Phillipsburg Green Cove Springs
NO. 30 ASTM D4869 Felt	ASTM D4869 organic felt used as an underlayment under asphalt shingles.	36" x 72', 2 square (216 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D4869, Type III (Phillipsburg) and Type 1 (Phillipsburg, Tuscaloosa, Green Cove Springs) UL Prepared Roofing Accessory Label Florida Building Code	Phillipsburg Green Cove Springs Tuscaloosa
NO. 30 Felt	Tough non-perforated organic felt used as an underlayment under shingles.	36" x 72', 2 square (216 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	UL Prepared Roofing Accessory Label	Joplin, Frederick, Phillipsburg, Tuscaloosa
NO. 30 ASTM Shake Underlayment	Organic felt used as an underlayment under wood shake shingles and asphalt shingles.	18" x 120', 1.667 squares (180 sq. ft.) Laying lines 8" & 10"	Mechanically Fastened	ASTM D226, Type II	Joplin
Sat. Felt No. 30 18"	Organic felt used as an underlayment under wood shake shingles.	18" x 72' 1 square (108 sq. ft.) Laying line 8" & 10" 60 rolls per pallet	Mechanically Fastened	-	Joplin Frederick Phillipsburg
SHAKE UNDERLAYMENT	Organic felt used as an underlayment under wood shake shingles.	18" x 120', 1.667 squares (180 sq. ft.) Laying lines 8" & 10" 40 rolls per pallet	Mechanically Fastened	-	Joplin
ASTM TILE UNDERLAYMENT	ASTM organic felt, surfaced with opaque granules, used as an underlayment for concrete tile.	36" x 36', 1 square (108 sq. ft.) 25 rolls per pallet	Mechanically Fastened	ASTM D6380, Class M, Type II ASTM D249, Type II UL Prepared Roofing Accessory Florida Building Code	Green Cove Springs
MASTER SMOOTH	An organic based product, saturated with asphalt, coated on both sides with weathering grade asphalt and surfaced with a fine mineral surface.	36" x 36', 1 square (108 sq. ft.) 30 rolls per pallet	Mechanically Fastened	ASTM D6380, Class S, Type IV (replaces ASTM D224, Type I) UL Prepared Roofing Accessory Label Florida Building Code	Joplin

TAMKO Production Locations: Tuscaloosa, AL; Green Cove Springs, FL; Columbus, KS; Phillipsburg, KS; Frederick, MD; Joplin, MO; Lamar, MO; Dallas, TX; Naples, TX

TAMKO, ASTONWOOD, AWAFLEX, COOLRIDGE, ELITE GLASS-SEAL, HERITAGE, LAMARITE, METALWORKS, MOISTURE GUARD PLUS, NAILFAST, STONECREST, TAMKO-GLASS SEAL, TAMKO Logo and Roofer Logo and VINTAGE are registered trademarks of TAMKO Building Products, Inc.

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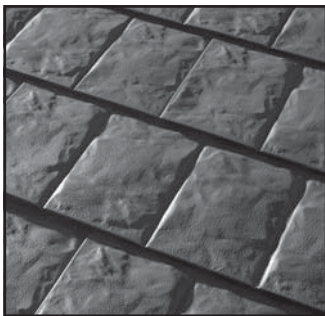
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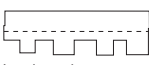


tamko.com



RESIDENTIAL ROOFING PRODUCT GUIDE



DESIGN	TAMKO PRODUCT	SPECIFICATIONS	LIMITED WARRANTY	CERTIFICATIONS	U.L.	PRODUCTION LOCATION
 <ul style="list-style-type: none"> Laminated Standard Size Algae Relief Shadowtone Choose From Classic & ANC Colors 	HERITAGE® (formerly Heritage® 30)	12" x 36-3/8" 5" Exposure 78 Shingles per Sales Square 3 Bundles per Sales Square 98.5 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> 30-yr Limited Warranty 15-yr. FULL START 5-yr. Limited Transferability 10-yr. Algae Relief Algae Cleaning Limited Warranty 15-yr. Limited Warranty on winds up to 110 mph or 130 mph w/ high wind application 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Frederick**
	HERITAGE® PREMIUM (formerly Heritage® 50)	12" x 36" 5" Exposure 80 Shingles per Sales Square 4 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> 50-yr Limited Warranty 20-yr. FULL START 5-yr. Limited Transferability 10-yr. Algae Relief Algae Cleaning Limited Warranty 15-yr. Limited Warranty on winds up to 110 mph or 130 mph w/ high wind application 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Frederick**
 <ul style="list-style-type: none"> Laminated Metric Size Algae Relief Shadowtone Choose From Classic and ANC Colors 	HERITAGE® (formerly Heritage® 30)	13-1/4" x 39-3/8" 5-5/8" Exposure 64 Shingles per Sales Square 3 Bundles per Sales Square 98.4 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> 30-yr. Limited Warranty 15-yr. FULL START 5-yr. Limited Transferability 10-yr. Algae Relief Algae Cleaning Limited Warranty 15-yr. Limited Warranty on winds up to 110 mph or 130 mph w/ high wind application 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph) ICC-ES ESR-1501 (Dallas only)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Joplin Phillipsburg Tuscaloosa* Dallas***
	HERITAGE® PREMIUM (formerly Heritage® 50)	13-1/4" x 39-3/8" 5-5/8" Exposure 64 Shingles per Sales Square 4 Bundles per Sales Square 98.4 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> 50-yr. Limited Warranty 20-yr. FULL START 5-yr. Limited Transferability 10-yr. Algae Relief Algae Cleaning Limited Warranty 15-yr. Limited Warranty on winds up to 110 mph or 130 mph w/ high wind application 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph) ICC-ES ESR-1501 (Dallas and Phillipsburg only)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Phillipsburg Tuscaloosa* Dallas***
 <ul style="list-style-type: none"> Laminated Premium Cut Shake Look Algae Relief Choose From Five Heritage Vintage Colors 	HERITAGE® VINTAGE®	17-1/2" x 40" 5" Exposure 72 Shingles per Sales Square 6 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> 50-yr. Limited Warranty 20-yr. FULL START 5-yr. Limited Transferability 10-yr. Algae Relief Algae Cleaning Limited Warranty 15-yr. Limited Warranty on winds up to 110 mph or 130 mph w/high wind application 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph) ICC-ES ESR-1501	U.L. Listed for Class A Fire Resistance and Wind Resistance	Phillipsburg****

† 12-1/4" x 36", 5-1/8" exposure, and 78 shingles per sq. for products produced in Frederick, MD.

†† Joplin produced 12"x12" Hip & Ridge is approved by Miami Dade County Florida NOA:11-0128.02 Expiration Date 01/08/14.

* Tuscaloosa produced Glass-Seal, Elite Glass-Seal, Heritage (formerly Heritage 30), and Heritage Premium (formerly Heritage 50) shingles meet Florida Building Codes, Miami-Dade County Florida NOA 10-0831.05, Expiration Date: 12/01/15; NOA 07-0111.04, Expiration Date: 04/11/12 and TAS 100-95 wind and wind driven rain.

** Frederick produced Elite Glass-Seal, Heritage (formerly Heritage 30) and Heritage Premium (formerly Heritage 50) meet Florida Building Codes, Miami-Dade County Florida NOA.: 07-0111.04 Expiration Date: 04/11/12; NOA 09-0720.03 Expiration Date 03/21/12 and TAS 100-95 wind and wind driven rain.

*** Dallas produced Heritage (formerly Heritage 30) and Heritage Premium (formerly Heritage 50) meet Florida Building Codes, Miami-Dade County Florida NOA: 10-0831.05 Expiration Date:12/01/15 and TAS 100-95 wind and wind driven rain.

**** Phillipsburg produced Heritage Vintage meets Florida Building Codes, Miami Dade County Florida NOA: 06-0816.07 Expiration Date: 11/23/11 and TAS 100-95 wind and wind driven rain.







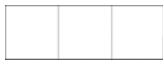
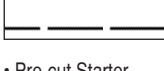
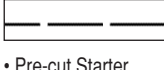
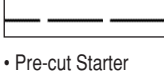
TAMKO PRODUCT	DESCRIPTION	SPECIFICATIONS	APPLICATION METHOD	CERTIFICATIONS	PRODUCTION LOCATION
TAMKO SYNTHETIC UNDERLAYMENT	A synthetic underlayment constructed using a grey thermoplastic polyolefin (TPO) top surface, a fiberglass scrim, and a polyethylene back surface.	42" x 285.7" 10 square (1000 sq. ft.) 36 Rolls per Pallet, Thickness: 8 mils.	Mechanically Fastened	UL Prepared Roofing Accessory Label	Columbus
SLATE-SURFACED Roll Roofing	An organic based product, saturated with hot asphalt, coated on both sides with weathering grade asphalt and surfaced with mineral granules.	36" x 36", 1 square 25 rolls per pallet	Apply using nails and TAMKO Cold Method and Lap Cement or TAMKO Plastic Roof Cement		Joplin Green Cove Springs
ASTM SLATE SURFACED Roll Roofing	An organic based product, saturated with hot asphalt, coated on both sides with weathering grade asphalt and surfaced with mineral granules.	36" x 36", 1 square. 25 rolls per pallet	Apply using nails and TAMKO Cold Method and Lap Cement or TAMKO Plastic Roof Cement	ASTM D6380, Class M, Type II ASTM D249, Type II UL Prepared Roofing Accessory Label Florida Building Code	Green Cove Springs
4" SELVEDGE EDGE Roll Roofing	Constructed like the slate surfaced roll product, with a 4" selvedge edge and a 32" surface of mineral granules.	36" x 36", 1 square. 25 rolls per pallet	Apply using nails and TAMKO Cold Method and Lap Cement or TAMKO Plastic Roof Cement		Green Cove Springs
SA CAP Roll Roofing	A self-adhering SBS-modified cap sheet with a 180 gram polyester mat, coated with SBS-modified asphalt and surfaced with mineral granules.	33'-6-1/4" x 39-3/8", 17" exposure, 1 square. 20 rolls per pallet	Self-adhering	Florida Building Code	Joplin
TAMKO SA BASE	A self-adhering SBS-modified base sheet with a fiberglass mat, coated with SBS-modified asphalt and a polymer film surface.	65'-10" x 39-3/8", 2 square, 20 rolls per pallet	Self-adhering or Mechanically Fastened	Florida Building Code	Joplin
AWAPLAN PREMIUM	SBS-modified cap sheet with a 250 gram polyester mat, coated with SBS-modified asphalt and surfaced with mineral granules.	33'-11" x 39-3/8", 1 square (111.3 sq. ft.) 20 rolls per pallet	TAMKO M3 Adhesive or TAM-PRO 856 Premium SBS Adhesive or Hot Mop	UL Classified Membrane ASTM D6164, Type II ICC-ES ESR-1013 Dade County Approved Florida Building Code	Joplin
AWAPLAN 170	Middle-weight SBS-modified cap sheet with a 180 gram polyester mat, coated with SBS-modified asphalt and surfaced with mineral granules.	33'-11" x 39-3/8", 1 square (111.3 sq. ft.) 20 rolls per pallet	TAMKO M3 Adhesive or TAM-PRO 856 Premium SBS Adhesive or Hot Mop	UL Classified Membrane ASTM D6164, Type II ICC-ES ESR-1013 Dade County Approved Florida Building Code	Joplin
AWAFLEX®	An SBS-modified cap sheet with a 155 gram polyester mat, coated with SBS-modified asphalt and surfaced with mineral granules.	33'-11" x 39-3/8", 1 square (111.3 sq. ft.) 20 rolls per pallet	TAMKO M3 Adhesive or TAM-PRO 856 Premium SBS Adhesive or Hot Mop	UL Classified Membrane Dade County Approved Florida Building Code	Joplin
TYPE 43 ORGANIC BASE SHEET	A quality organic base sheet used as a nailed base ply in AWAPLAN and AWAFLEX modified roofing applications.	72" x 36", 2 square (216 sq. ft.) 20 rolls per pallet	Mechanically Fastened	UL Type 15 ASTM D 2626 Dade County Approved Florida Building Code	Joplin, Green Cove Springs
PEEL-N-STICK FELT UNDERLAYMENT	Self-adhering, asphalt saturated organic felt with a removable split release film on the adhesive side for ease of installation.	36" x 72", 2 square (200 sq. ft.) Laying lines 2", 18", 32"	Self-adhering	UL Prepared Roofing Accessory Label	Joplin
NO. 15 UL Felt	UL organic felt used as an underlayment under asphalt shingles.	36" x 144", 4 square (432 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D226, Type I UL Built-Up Type 15 Label Florida Building Code	Joplin Frederick Tuscaloosa
NO. 15 ASTM D4869 Felt	ASTM D4869 organic felt used as an underlayment under asphalt shingles.	36" x 144", 4 square (432 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D4869, Type I UL Prepared Roofing Accessory Label Florida Building Code	Phillipsburg, Green Cove Springs Tuscaloosa
NO. 15 ASTM Felt	ASTM organic felt used as an underlayment under asphalt shingles.	36" x 144", 4 square (432 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	ASTM D226, Type I	Phillipsburg, Green Cove Springs
NO. 15 Felt	Tough TAMKO organic felt used as an underlayment under asphalt shingles.	36" x 144", 4 square (432 sq. ft.) Laying lines 2", 4", 17"	Mechanically Fastened	UL Prepared Roofing Accessory Label	Joplin, Frederick, Phillipsburg, Tuscaloosa

VENTILATION





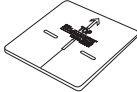


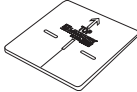
TAMKO PRODUCT	DESCRIPTION	SPECIFICATIONS	APPLICATION METHOD	CERTIFICATIONS
TAMKO® ROLL VENT® Continuous Ridge Vent	A self-contained ridge vent product on a roll. Lightweight, compression resistant shingle-over ventilation. Provides 18 sq. inches of net free area per linear foot.	10.5" x 20', 5 rolls per bag, 100 ft. per bag 10.5" x 50', 2 rolls per box, 100 ft. per box	Fasten with nails provided with product. Install along with an equal or greater amount of soffit ventilation.	ICC-ES ESR-1059
TAMKO® RAPID RIDGE® Nail Gunable Ridge Vent	A nail-gun version of TAMKO Roll Vent self-contained ridge vent product on a roll. Provides 12.5 sq. inches of net free area per linear foot.	10.5" x 20', 5 rolls per bag, 100 ft. per bag 10.5" x 50', 2 rolls per box, 100 ft. per box	Fasten with nails provided with product and nail gun. Install along with an equal or greater amount of soffit ventilation.	ICC-ES ESR-1059
COOLRIDGE® Sectional Ridge Vent	A self-contained sectional ridge vent product. Provides 18 sq. inches of net free area per linear foot.	14-3/4" x 48", 10 pieces per box, 40 ft. per box	Fasten with nails. Install along with an equal or greater amount of soffit ventilation	Florida Building Code
XTRACTOR VENT® XLP TURBO Nail Gunable Continuous Ridge Vent	A nail-gunable, externally baffled ridge vent product. Provides 12.75 sq. inches of net free area per linear foot.	14" x 25', 1 roll per box, 25 ft. per box	Fasten with nails provided with product and nail gun. Install along with an equal or greater amount of soffit ventilation.	Florida Building Code
TAMKO® SOLAR ATTIC VENT Surface Mount	A low-profile ventilator in a square design that mounts to the roof surface to integrate with shingles and the shape of the roof to combine the beauty of a single unobtrusive unit with the benefits of a solar-powered ventilator system.	25" x 21-3/4" x 7-1/2", (Vent dimensions) 25-1/2" x 22", (Base Flange dimensions) 1 each per carton 24 cartons per pallet	Fasten with nails. Install along with soffit ventilation, minimum open air inlet of 4.25 sq. ft. required.	Florida Building Code
TAMKO® SOLAR ATTIC VENT Curb Mount	A low-profile ventilator in a square design that mounts to a fabricated curb box frame on flat, tiled, or unusually steep sloped roof installations to combine the beauty of a single unobtrusive unit with the benefits of a solar-powered ventilator system.	25" x 21-3/4" x 8-3/4", (Vent dimensions) 19-3/4" x 16-1/2", (Base Flange dimensions) 1 each per carton 24 cartons per pallet	Fasten with nails. Install along with soffit ventilation, minimum open air inlet of 4.25 sq. ft. required.	Florida Building Code
TAMKO® SOLAR ATTIC VENT Remote Mount	A low-profile ventilator in a square design that mounts to the roof surface in a two-piece system with the ventilator to be installed independently of the solar panel for less visibility and with the solar panel positioned to best capture solar energy.	25" x 21-3/4" x 7-1/2", (Vent dimensions) 25-1/2" x 22", (Vent Base Flange dimensions) 25" x 21-3/4" x 3/4", (Solar Panel dimensions) 1 each per carton 24 cartons per pallet	Fasten with nails. Install along with soffit ventilation, minimum open air inlet of 4.25 sq. ft. required.	Florida Building Code
TAMKO® SOLAR ATTIC VENT Gable Mount	A low-profile ventilator in a square design that mounts inside the attic space directly behind the gable vent when roof mounting is not possible or desirable. Unit includes a remote-mounted flat solar panel for positioning to best capture solar energy.	19-3/4" x 16-1/2" x 8-3/4", (Vent dimensions) 25" x 21-3/4" x 3/4", (Solar Panel dimensions) 1 each per carton 24 cartons per pallet	Fasten with nails. Install along with soffit ventilation, minimum open air inlet of 4.25 sq. ft. required.	-
TAMKO® SOLAR ATTIC VENT Cold-Weather Thermostat	An Optional Solar Attic Vent accessory designed to disengage the fan of the attic vent when the temperature drops below 50°F.	-	Follow wiring instructions included with unit.	-

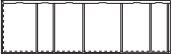





UNDERLAYMENTS, FELTS & ROLL ROOFING

TAMKO PRODUCT	DESCRIPTION	SPECIFICATIONS	APPLICATION METHOD	CERTIFICATIONS	PRODUCTION LOCATION
MOISTURE GUARD PLUS® Ice & Rain Protective Underlayment	Self-adhering SBS modified sheet for prevention of water penetration caused by wind-blown rain or ice damming. Use at rakes, eaves, valleys, or over the entire deck with proper ventilation.	1 Square: 39-3/8" x 30'6" (100 sq. ft.) 40 Rolls per Pallet, (Joplin only) 1.5 Square: 39-3/8" x 45'-8" (150 sq. ft.) 30 Rolls per Pallet, (Joplin only) 2 Square: 39-3/8" x 61' (200 sq. ft.) 24 Rolls per Pallet, Thickness: 55 mils.	Self-adhering	ASTM D1970 ICC-ES ESR-1252 UL Prepared Roofing Accessory Label Florida Building Code	Joplin Naples
NAIL FAST® SBS Modified Utility Underlayment	SBS-modified utility sheet designed for easy installation over wood decks with slopes exceeding 3 inches per foot.	Roll Dimensions: 54'-3/4" x 36" Coverage per roll 1.5 Square Thickness: 80 mils.	Mechanically Fastened	ASTM D6380 Class S Type IV (replaces ASTM D224, Type I) UL Prepared Roofing Accessory Label Florida Building Code	Joplin
TW-METAL & TILE Underlayment	A flexible, fiberglass reinforced, self-adhering rubberized asphalt sheet membrane with a polymer film on the surface and a split treated release film on the adhesive side.	2 Square: 39-3/8" x 61' (200 sq. ft.) 20 Rolls per Pallet, Thickness: 75 mils.	Self-adhering	ASTM D1970 (Joplin only) ICC-ES ESR-2531 Florida Building Code	Joplin Naples
TW UNDERLAYMENT	Self-adhering, rubberized asphalt with textured polymer surface for skid resistance and a treated release film.	2 Square: 39-3/8" x 61" (200 sq. ft.) 24 Rolls per Pallet, Thickness: 40 mils.	Self-adhering	ICC-ES ESR-1252 Florida Building Code	Columbus

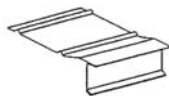
DESIGN	TAMKO PRODUCT	SPECIFICATIONS	LIMITED WARRANTY	CERTIFICATIONS	U.L.	PRODUCTION LOCATION
 <ul style="list-style-type: none"> • 3-Tab • Standard Size • Algae Relief 	ELITE GLASS-SEAL®	12" x 36" [†] 5" Exposure 80 Shingles per Sales Square 3 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 25-yr Limited Warranty • 5-yr. FULL START • 2-yr. Limited Transferability • 10-yr. Algae Relief • Algae Cleaning Limited Warranty • 5-yr. Limited Warranty on winds up to 60 mph 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381, Class H (150 mph) ICC-ES ESR - 1501 (Joplin only)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Joplin Frederick** Tuscaloosa*
	TAMKO GLASS-SEAL®	12" x 36" 5" Exposure 80 Shingles per Sales Square 3 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 20-yr Limited Warranty • 3-yr. FULL START • 2-yr. Limited Transferability • 10-yr. Algae Relief • Algae Cleaning Limited Warranty • 5-yr. Limited Warranty on winds up to 60 mph 	ASTM D3161, Type I, Class F (110 mph) ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381 Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Tuscaloosa*
 <ul style="list-style-type: none"> • 3-Tab • Standard Size 	TAMKO GLASS SEAL®	12" x 36" [†] 5" Exposure 80 Shingles per Sales Square 3 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 20-yr Limited Warranty • 3-yr. FULL START • 2-yr. Limited Transferability • 5-yr. Limited Warranty on winds up to 60 mph 	ASTM D3161, Type I, Class F (110 mph), ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381 Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Frederick
 <ul style="list-style-type: none"> • 3-Tab • Standard Size 	TAMKO GLASS SEAL®	12" x 36" 5" Exposure 80 Shingles per Sales Square 3 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 20-yr Limited Warranty • 3-yr. FULL START • 2-yr. Limited Transferability • 5-yr. Limited Warranty on winds up to 60 mph 	ASTM D3161, Type I, Class A (60 mph), ASTM E108, Class A ASTM D3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381 Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Joplin
 <ul style="list-style-type: none"> • Hip and Ridge • Standard Size • Algae Relief 	12" x 12" HIP & RIDGE	12" x 12" 5" Exposure 240 Shingles per 100 lin. ft. 3 Bundles per 100 lin. ft.	–	ASTM D3161, Type I, Class F (110 mph), ASTM E108, Class A ASTM D 3462 ASTM D 7158, Class H (150 mph) UL 2390/ASTM D 6381 Class H (150 mph)	U.L. Listed for Class A Fire Resistance and Wind Resistance	Joplin††
 <ul style="list-style-type: none"> • Hip and Ridge • Standard Size • Algae Relief 	HERITAGE® VINTAGE® 12" x 12" HIP & RIDGE	12" x 12" 5" Exposure 240 Shingles per 100 lin. ft. 4 Bundles per 100 lin. ft.	–	–	N/A	Phillipsburg
 <ul style="list-style-type: none"> • Pre-cut Starter • Faster install time • Algae Relief 	HERITAGE® VINTAGE® STARTER	12-1/2" x 36" 20 Shingles per bundle 60 lin. ft. coverage per bundle	–	–	N/A	Phillipsburg
 <ul style="list-style-type: none"> • Pre-cut Starter • Faster install time 	TAMKO® SHINGLE STARTER	7" x 36" 34 Shingles per bundle 102 lin. ft. coverage per bundle	–	–	N/A	Joplin Frederick Tuscaloosa
 <ul style="list-style-type: none"> • Pre-cut Starter • Faster install time 	TAMKO® 10 INCH STARTER	10" x 40" 30 Shingles per bundle 100 lin. ft. coverage per bundle	–	–	N/A	Phillipsburg



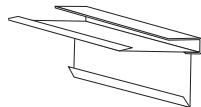
DESIGN	TAMKO PRODUCT	SPECIFICATIONS	LIMITED WARRANTY	CERTIFICATIONS	U.L.	PRODUCTION LOCATION
 <ul style="list-style-type: none"> • Composite • Slate Look • Choose from Four Standard Slate Colors • Five Cool Colors • Five Pre-blended Color Options 	LAMARITE® SLATE	12" x 18" 7", 7-1/2" and 8" Exposure 150 Shingles per Sales Square 10 Bundles per Sales Square 5" and 7" x 18" Shingles also available 100.0 sq. ft. Coverage per Sales Square at 8 inch exposure	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	ASTM E108, Class A ICC-ES ESR-1841 ASTM D3161, Class D (90 mph) Miami Dade County, FL NOA 09-0319.04 Expiration Date: 07/23/14	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Lamar
 <ul style="list-style-type: none"> • Composite • Slate Look • Choose from Four Standard Slate Colors • Five Cool Colors 	LAMARITE® SLATE - DIAMOND	12" x 18" 6" Exposure 200 Shingles per Sales Square 13.3 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square at 6 inch exposure	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	ASTM E108, Class A ICC-ES ESR-1841 ASTM D3161, Class D (90 mph) Miami Dade County, FL NOA 09-0319.04 Expiration Date: 07/23/14	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Lamar
 <ul style="list-style-type: none"> • Composite • Slate Look • Choose from Four Standard Slate Colors • Five Cool Colors 	LAMARITE® SLATE - SCALLOP	12" x 18" 7", 7-1/2" Exposure 160 Shingles per Sales Square 10.67 Bundles per Sales Square 100.0 sq. ft. Coverage per Sales Square at 7.5 inch exposure	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	ASTM E108, Class A ICC-ES ESR-1841 ASTM D3161, Class D (90 mph) Miami Dade County, FL NOA 09-0319.04 Expiration Date: 07/23/14	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Lamar
 <ul style="list-style-type: none"> • Preformed Hip and Ridge • Composite • Slate Look 	LAMARITE® SLATE HIP & RIDGE	15 Pieces Per Bundle	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	—	N/A	Lamar
 <ul style="list-style-type: none"> • Tapered Starter • Composite 	LAMARITE® SLATE STARTER	11.875" x 10" 20 Pieces Per Bundle	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	—	N/A	Lamar
 <ul style="list-style-type: none"> • Composite • Shake • Choose from Three Standard Shake Colors 	LAMARITE® SHAKE	12" x 18" 7", 7-1/2" and 8" Exposure 150 Shingles per Sales Square 9.38 Bundles per Sales Square 5" and 7" x 18" Shingles also available 100.0 sq. ft. Coverage per Sales Square at 8 inch exposure	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	ASTM E108, Class A ASTM D3161, Class D (90 mph) ICC-ES ESR-1828 Miami Dade County, FL NOA 09-0319.04 Expiration Date: 07/23/14	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Lamar
 <ul style="list-style-type: none"> • Composite • Hip and Ridge • Shake Look 	LAMARITE® SHAKE HIP & RIDGE	15 Pieces per Bundle	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	—	N/A	Lamar
 <ul style="list-style-type: none"> • Tapered Starter • Composite 	LAMARITE® SHAKE STARTER	20 Pieces per Bundle	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 7-yr. FULL START • Limited Transferability • 5-yr. Limited Warranty on winds up to 90 mph 	—	N/A	Lamar

DESIGN	TAMKO PRODUCT	SPECIFICATIONS	LIMITED WARRANTY	CERTIFICATIONS	U.L.	PRODUCTION LOCATION
 <ul style="list-style-type: none"> • Steel • Wood Look • Choose from Eight Cool Colors 	METALWORKS® ASTONWOOD®	12-5/8" x 39-3/4" 12" Exposure 30 Shingles per Sales Square 1 Box per Sales Square Nominal 0.0135" Thickness 98.4 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 25-yr. FULL START • Limited Transferability • 50-yr. Limited Warranty on winds up to 110 mph • 30-yr. Finish Limited Warranty 	ASTM D3161, Class F (110 MPH) ICC-ES ESR-1129 CCMC 13011-R MEA 1-56-00-M Vol. II 	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Joplin
 <ul style="list-style-type: none"> • Steel • Slate Look • Choose from Four Cool Colors 	METALWORKS® STONECREST® SLATE	12-5/8" x 39-3/4" 12" Exposure 30 Shingles per Sales Square 2 Boxes per Sales Square Nominal 0.0162" Thickness 98.4 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 25-yr. FULL START • Limited Transferability • 50-yr. Limited Warranty on winds up to 110 mph • 30-yr. Finish Limited Warranty 	ASTM D3161, Class F (110 MPH) ICC-ES ESR-1129 CCMC 13011-R MEA 1-56-00-M Vol. II 	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Joplin
 <ul style="list-style-type: none"> • Steel • Tile Look • Choose from Three Cool Colors 	METALWORKS® STONECREST® TILE	12-5/8" x 39-3/4" 12" Exposure 30 Shingles per Sales Square 2 Boxes per Sales Square Nominal 0.0162" Thickness 98.4 sq. ft. Coverage per Sales Square	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 25-yr. FULL START • Limited Transferability • 50-yr. Limited Warranty on winds up to 110 mph • 30-yr. Finish Limited Warranty 	ASTM D3161, Class F (110 MPH) ICC-ES ESR-1129 CCMC 13011-R MEA 1-56-00-M Vol. II 	U.L. Listed for Class A Fire Resistance; Wind Resistance; Class 4 Impact Resistance	Joplin
<ul style="list-style-type: none"> • Ridge Cap • Hip Cap Tapered • Starter • Gable • Valley • J-Channel • Screws • Sidewall • Clips • Trim Coil • Snow Guards • Touch up Paint • Hip & Ridge Seal 	METALWORKS® METAL & NON-METAL ACCESSORIES	Varies - See items listed below and website for more details	<ul style="list-style-type: none"> • 50-yr Limited Warranty • 25-yr. FULL START • Limited Transferability • 50-yr. Limited Warranty on winds up to 110 mph • 30-yr. Finish Limited Warranty on metal accessories 	—	N/A	Joplin

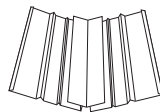
METAL ACCESSORIES (Accessories lbs as packaged weight) All values stated as nominal.



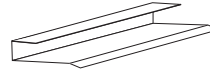
Starter
10 pc/ctn. - 100 lf/ctn.
35 lbs/ctn.
30 ctn./pallet



Gable
10 pc/ctn. - 100 lf/ctn.
41 lbs/ctn.
24 ctn./pallet



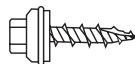
Valley
5 pc/ctn. - 50 lf/ctn.
56 lbs/ctn.
12 ctn./pallet



J-Channel
10 pc/ctn. - 100 lf/ctn.
17 lbs/ctn.
30 ctn./pallet



Sidewall
5 pc/ctn. - 50 lf/ctn.
25 lbs/ctn.
30 ctn./pallet



Colored Screws
50 pc/bag
0.5 lbs/bag



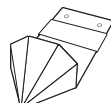
Hip Cap Tapered StoneCrest or AstonWood
50 pc/ctn. - 50 lf/ctn.
21 lbs/ctn.
32 ctn./pallet



12" Ridge Cap
25 pc/ctn. - 25 lf/ctn.
19 lbs/ctn.
45 ctn./pallet



Clips
400 pc/ctn. - 100+/- pc/sq.
8 lbs/ctn.
90 ctn./pallet



Snow Guard
100 pc/ctn.
16 lbs/ctn.
30 ctn./pallet



Trim Coil
22-1/4" x 50'
1 pc/ctn.
47 lbs/ctn.
30 ctn./pallet

NON-METAL ACCESSORIES



Touch Up Paint
2 oz/btl.
12 btl/ctn.
2.2 lbs/ctn.



Hip & Ridge Seal
4" x 50'
1 pc/ctn.
6 lbs/ctn.