

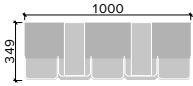


ROOFING SHINGLES

COLLECTION OF COLORS

CONTINENT collection EN 544

Triple-layer roofing shingles are an elite material. They resemble antique stone roofing tiles and create an incredible ultra-dimensional look.

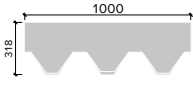
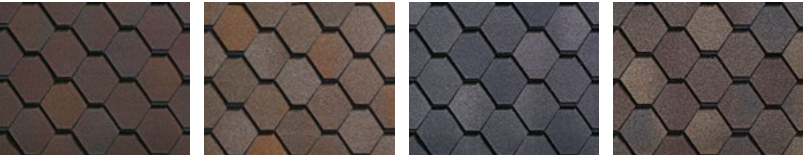


**60
YEARS**

MANUFACTURER'S
WARRANTY

WESTERN collection EN 544

The patent design of this double layer roofing shingles has no analogs in the world. It is an incredible holographic effect embodied in a classic pattern. WESTERN collection is an inimitable range of colors and excellent performance.

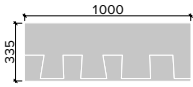


**55
YEARS**

MANUFACTURER'S
WARRANTY

JAZZ collection EN 544

An exquisite color palette, an intricate play of hues and a dramatic 3D profile. A special pattern creates an appealing look of natural handmade tiles like slate or wooden shakes. These double-layer roofing shingles have an increased thickness and stand out for their enhanced endurance and wind resistance.



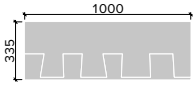
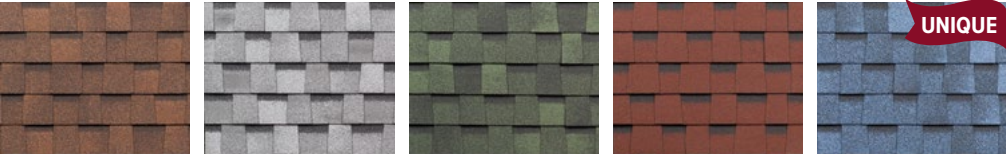
**60
YEARS**

MANUFACTURER'S
WARRANTY



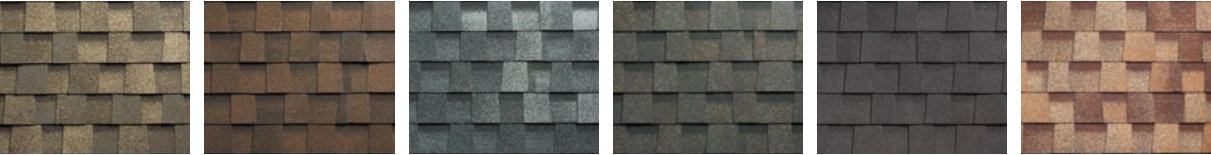
COUNTRY AR collection EN 544

COUNTRY AR (algae resistant) collection of double-layer roofing shingles comprises incredible color solutions that imitate diverse nature's shades and nuances. Vibrant color blends and expressive shadow lines create a wonderful dimensional visual image.



**50
YEARS**

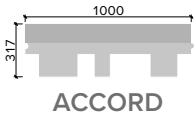
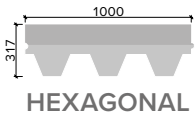
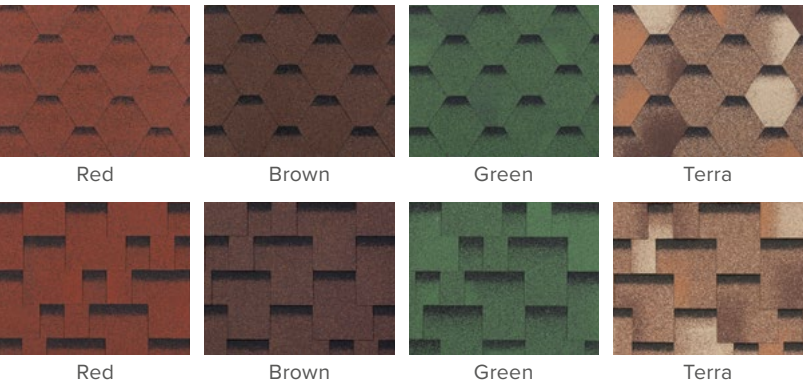
MANUFACTURER'S
WARRANTY



NOTE: Actual product colors may vary slightly from the colors shown in the catalogue. If color hue is critical for you, please request full-size samples before making your final choice.

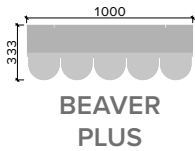
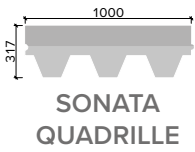
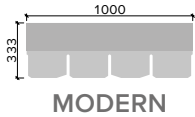
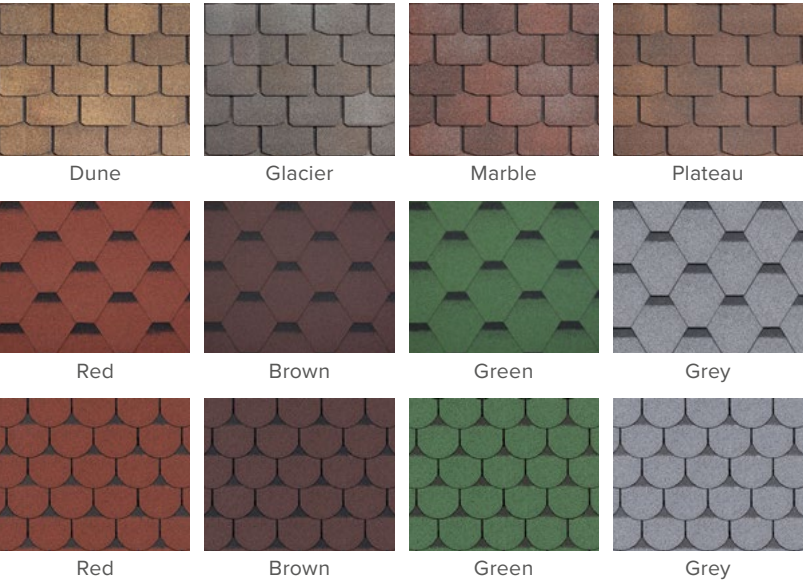
TROPIC APP collection EN 544

TROPIC APP collection was specially designed for Asian countries. These shingles are manufactured on a base of APP modified bitumen compound to provide quick and easy torch-on application. APP polymer and special additives give exceptional physical and mechanical properties to the product including the heat resistance of 150°C. Copper-containing color granules prevent algae growth on the roof.



CLASSIC AR series EN 544

CLASSIC AR (algae resistant) series covers a wide array of attractive colors and various cutting patterns to suit any taste. High-grade bitumen compound is used to produce these single-layer roofing shingles of assured quality that comes with a manufacturer's warranty of 30 years.



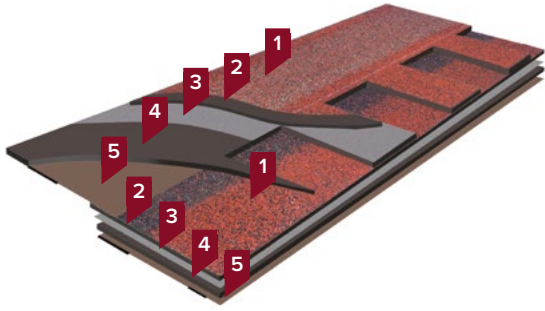
TECHNONICOL hip & ridge & starter shingles



Hip & ridge & starter shingles produced with SBS-modified bitumen are extremely flexible. These pre-cut shingles can be separated into three smaller pieces for further application on hips and ridges to add the perfect aesthetic finish to your roof. Maximum protection against wind, snow and rain is provided. Available in a wide range of colors to match any chosen roofing color solution.
Dimensions: 1 m × 0.25 m.



Multilayer roofing shingles composition



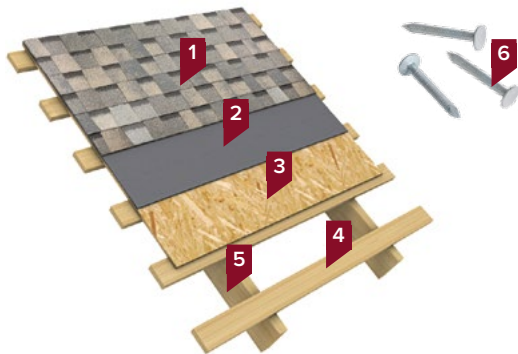
Roofing shingles are the construction material for the residential roofing application that is used on roof slopes of 12° or greater. It is the smartest solution for a complex or intricate roof design. Bitumen shingles do not fade; they are resistant to harmful environmental impacts, decay, corrosion, fire damage, and, what is very important, they perform well in extreme temperatures.

COMPONENTS:

1. Basalt colored granules
2. Bitumen compound
3. Fiberglass reinforcement
4. Bitumen compound
5. Underside protection

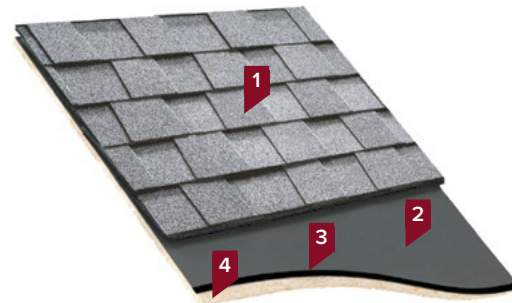
Systems

System with nailing method



1. Roofing shingles by TECHNONICOL
2. Underlay bitumen membrane by TECHNONICOL
3. Wood decking
4. Counter battens
5. Rafter
6. Roofing nails

System with torching method



1. Roofing shingles by TECHNONICOL
2. Underlay membrane ULTRAPLAST B
3. BITUMEN PRIME COATING
4. Roof decking (non-flammable)

Specifications

Roofing shingles by TECHNONICOL fully comply with EN 544 – European standard for bitumen shingles known for its strict requirements for the minimum mass of bitumen in products (1300 g/m² – for single-layer roofing shingles and 1500 g/m² – for multilayer ones). Our commitment to quality control, best raw materials and up-to-date technology guarantees years of superior performance to every customer.

PROPERTIES	MULTILAYER					SINGLE-LAYER			
	CONTINENT	WESTERN	JAZZ	COUNTRY	TROPIC APP	CLASSIC			HIP & RIDGE
						MODERN	SONATA	BEAVER	
Warranty, years	60	55	60	50	50	30	30	30	-
Base per layer	Fiber-glass 110	Fiber-glass 110	Fiber-glass 90	Fiber-glass 90	Fiber-glass 100	Fiber-glass 100	Fiber-glass 100	Fiber-glass 100	Fiberglass 110
Type of bitumen	oxidized	oxidized	oxidized	oxidized	APP	oxidized	oxidized	oxidized	SBS
Flow resistance at elevated temperature, °C	110	110	110	110	150	110	110	110	100
Thickness per layer, mm	3.2±0.2	3.0±0.2	3.0±0.2	2.7±0.2	2.8±0.2	3.0±0.2	3.1±0.2	2.6±0.2	3.4±0.2
Bundle weight, kg	38.1	26.4	27.0	31.2	25.5	32.1	26.7	27.3	27.5
Weight per sqm, kg/m ²	25.4	17.6	13.5	12.0	8.5	10.7	8.9	9.1	5.5
Coverage per bundle, m ²	1.5	1.5	2.0	2.6	3.0	3.0	3.0	3.0	5.0 12 lin. m (hip & ridge) or 20 lin. m (starter strip)
Quantity on the pallet, m ²	45.0	54.0	84.0	93.6	126.0	108.0	108.0	126.0	200
Installation method*	a	a	a / c	a / c	b	a / b	a / b	a / b	a / c

*Installation methods: a – nailing; b – torching; c – torching with additional nailing for steep roofs (slope ≥60°).

Gallery



Underlay bitumen membranes



ULTRAPLAST B

Waterproofing membrane is produced by two-sided placing of a high quality polymer-bitumen binder on a polyester base. The material withstands temperature fluctuations and high mechanical loads providing a long-term, reliable and effective waterproofing. APP polymer provides additional flow resistance that makes it possible to use the material in a very hot climate.



ULTRAFLEX SA

Self-adhesive polyester reinforced SBS-modified bitumen membrane is designed to complete secure application. Thanks to the special adhesive bitumen compound, the material can be used on surfaces, where the standard torch-on application is forbidden (expanded / extruded polystyrene or wooden base). Cold application method prevents smoke, odors and noise and does not require any additional equipment and skills.

PROPERTIES	TEST METHOD	ULTRAPLAST B 2.0 mm	ULTRAFLEX SA 1.5 mm	ULTRAFLEX SA 2.0 mm
Thickness, mm	EN 1849-1	2.0±0.20	1.5±0.20	2.0±0.20
Mass per unit area, kg/m ²	EN 1849-1	2.8±0.28	1.8±0.20	2.3±0.20
Length × width, m	EN 1848-1	15 × 1	20 × 1	20 × 1
Softening point, °C	ASTM D36	≥145	≥100	≥100
Flexibility at low temperature, °C	EN 1109-1	≤-2	≤-20	≤-20
Flow resistance at elevated temperature, °C	EN 1110	≥120	≥90	≥90
Elongation L / T, %	ASTM D5147	40±8 / 45±9	35±20 / 45±20	35±20 / 45±20
Tensile strength L / T, N/50 mm	ASTM D5147	750±150 / 600±120	400±100 / 300±100	400±100 / 300±100
Tear resistance L / T, N	ASTM D4073	≥200 / ≥200	≥100 / ≥100	≥100 / ≥100
Peel resistance of joints: overlap to overlap / overlap to film, N/50mm	EN 12316-1	-	≥40 / ≥20	≥60 / ≥30
Protective covering type on the top		polymer film	polymer film or sand	polymer film or sand
Protective covering type on the bottom		polymer film	anti-adhesion film	anti-adhesion film



NICOBAND self-adhesive sealant tape



NICOBAND

This is a very convenient way to seal various cracks and joints. Can also be used to insulate junctions, for roofing repairs and for roof repair systems. The special UV protection layer increases its service life outdoors and the assortment of colors makes it suitable for any roof. NICOBAND sealant tape is very easy to use and its application requires no special skills. The sealing function of the tape extends for its full lifetime (10 years) thanks to specially formulated polymer-bitumen binder.

	Width, cm	5	7.5	10	15	20	30
Length 3 m		+	+	+	+	-	-
Length 10 m		-	+	+	+	+	+

Bitumen primers



BITUMEN PRIME COATING

Ready to use BITUMEN PRIME COATING is intended for preparation of the surface before installation of torch-on or self-adhesive waterproofing material. The primer presents a mix of high-quality bitumen and specially selected organic solvents. It has an enhanced covering capacity, penetrability and short drying time.



UNIVERSAL WATER BASED PRIMER

Ready to use UNIVERSAL WATER BASED PRIMER is intended for preparation of the surface before installation of torch-on or self-adhesive waterproofing material. The primer is produced on the base of bitumen dispersion in water; it does not contain solvents. The primer has a neutral smell, so it is perfectly suited for indoor works.

PROPERTIES	BITUMEN PRIME COATING	UNIVERSAL WATER BASED PRIMER
Mass fraction of non-volatile substances, %	45-55	-
Content of bitumen with emulsifier, %	-	25-40
Drying time at 20°C, h	12	1
Relative viscosity, s	15-40	5-30
Consumption, l/m ²	0.25-0.35	0.25-0.35
Bucket volume, l	3, 10, 20	20

Extruded polystyrene



TECHNINICOL CARBON PROF 300

Extruded polystyrene TECHNINICOL CARBON PROF 300 is a high-performance material with increased compressive stress parameter that is widely used in buildings and constructions while arranging the thermal insulation of basements, roofs, floors and facades. Also used in the construction of railways and highways.



TECHNINICOL CARBON ECO

Extruded polystyrene TECHNINICOL CARBON ECO is a high-performance material widely used in buildings and constructions while arranging the thermal insulation of basements, roofs, floors and facades.

PROPERTIES	TECHNINICOL CARBON PROF 300	TECHNINICOL CARBON ECO
Thermal conductivity λ_p , W/m*K	0.028-0.034	0.028-0.034
Compressive stress at 10% deformation, kPa	≥300	≥200
Long term water absorption by immersion, %	≤0.7	≤0.7
Length, mm	1180-4000 (±10)	1180-4000 (±10)
Width, mm	580-650 (±8)	580-650 (±8)
Thickness, mm	50-120 (-2; +3); 130-200 (-2; +6)	10-40 (±2); 50-100 (-2; +3)

About TECHNONICOL Corporation

TECHNONICOL Corporation is the leading manufacturer and supplier of roofing, waterproofing, thermal insulation and sound absorption materials. The company was founded in 1992 and since then has accumulated considerable experience in the building materials market. We are proud to offer up-to-date materials and technologies that combine global expertise and elaboration of our own R&D centers. A wide range of high-quality materials and reliable solutions allows making a choice that is best suited to the customer both in price and in quality.

The manufacturer's management system is certified to ISO 9001:2015, the internationally recognized standard that indicates a company's adherence to quality management practices and minimizes potential risks to customers. Having strong faith in the Lean manufacturing philosophy TECHNONICOL Corporation built in quality control in every process at the production site. Our experts thoroughly test raw materials, do sampling inspection, constantly improve in-process control techniques to offer roofing solutions of the superior quality.



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