



# ROOFING SHINGLES

COLLECTION OF COLORS



# TECHNONICOL SHINGLAS multilayer roofing shingles

## 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.

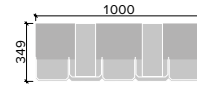


Asia

America

Africa

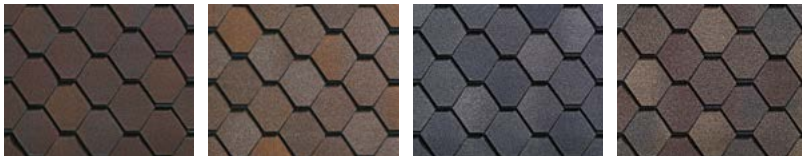
Europe



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. The WESTERN collection is an inimitable range of colors and excellent performance.

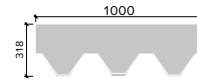


Canyon

Klondike

Niagara

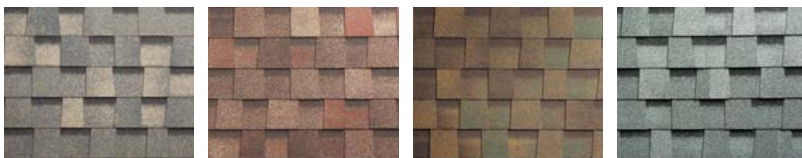
Prairie



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.



Indigo

Corrida

Barcelona

Castile



Seville

Alicante

Toscana

Sicily



MANUFACTURER'S WARRANTY

## COUNTRY collection EN 544

The COUNTRY 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.



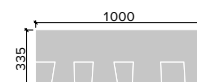
Louisiana

Alaska

Vermont

Kansas

Montana



MANUFACTURER'S WARRANTY



Texas

Alabama

Michigan

Atlanta

Indiana

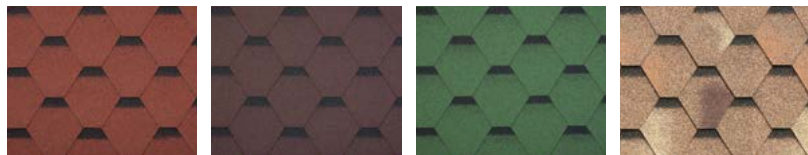
Nevada

**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.

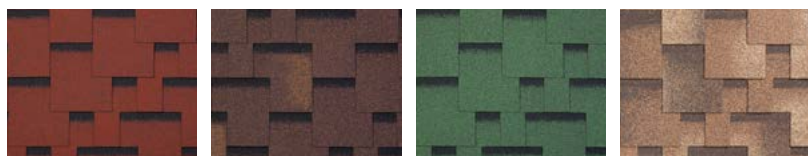
# TECHNONICOL roofing shingles

## TROPIC APP collection EN 544

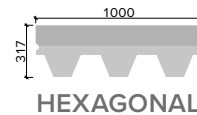
TROPIC APP collection was specially designed for Asian countries. These shingles are manufactured on a base of APP modified bitumen compound to provide quick and easy torch-on application. APP polymer and special additives give exceptional physical and mechanical properties to the product including the heat resistance of 150°C. Copper-containing color granules prevent algae growth on the roof for more than 10 years.



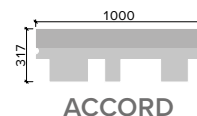
Red Brown Green Terra



Red Brown Green Terra



HEXAGONAL



ACCORD



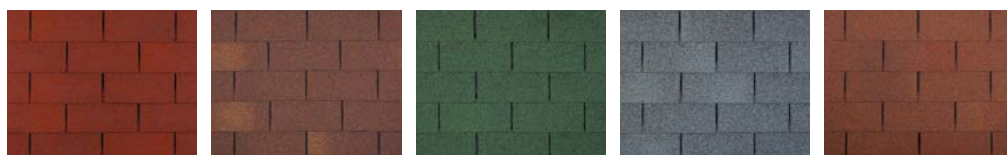
MANUFACTURER'S WARRANTY

## CLASSIC AR series EN 544

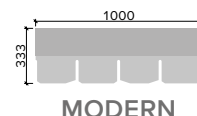
The CLASSIC AR (algae resistant) series covers a wide array of attractive colors and various cutting patterns to suit any taste. High-grade asphalt coating is used to produce these single-layer roofing shingles. Copper-containing color granules prevent algae growth on the roof for more than 10 years.



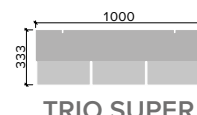
Dune Glacier Marble Plateau



Red Brown Green Grey Red-brown



MODERN



TRIO SUPER



MANUFACTURER'S WARRANTY

## TECHNONICOL hip & ridge & starter shingles



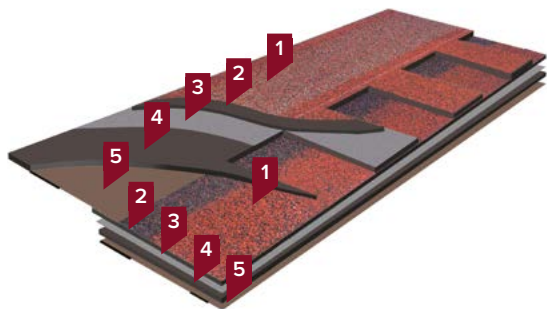
Hip & ridge & starter shingles produced with SBS modified bitumen are extremely flexible. These pre-cut shingles can be separated into three smaller pieces for further application on hips and ridges to add the perfect aesthetic finish to your roof. Maximum protection against wind, snow and rain is provided.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

Dimensions: 1 m x 0.25 m

Package: 12 lin. m (hips & ridge) and 20 lin. m (starter strip).



# Multilayer roofing shingles composition



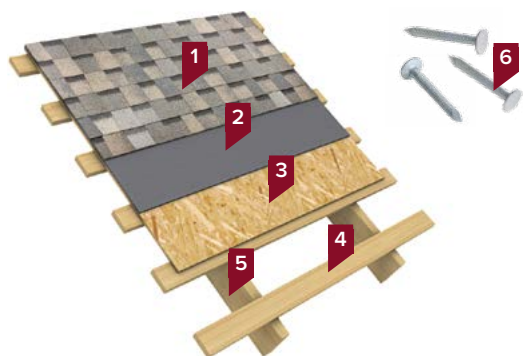
Roofing shingles are the construction material for the residential roofing application that is used on roof slopes of 12° or greater. It is the smartest solution for a complex or intricate roof design. Bitumen shingles do not fade; they are resistant to harmful environmental impacts, decay, corrosion, 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. TECHNONICOL SHINGLAS multilayer roofing shingles
2. Underlay membrane MIDA SELF SA (self-adhesive)
3. Wood decking
4. Counter battens
5. Rafter
6. Roofing nails

### System with torching method



1. TECHNONICOL SHINGLAS multilayer roofing shingles
2. Underlay membrane PRIMA PLAST PV
3. Bitumen Prime Coating (PRIMER TECHNONICOL No.01)
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/m<sup>2</sup> – for single-layer roofing shingles and 1500 g/m<sup>2</sup> – 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 AR		HIP & RIDGE
						MODERN	TRIO SUPER	
Warranty, years	60	55	50	50	50	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	Fiberglass 110
Type of asphalt	oxidized	oxidized	oxidized	oxidized	APP	oxidized	oxidized	SBS
Flow resistance at elevated temperature, °C	110	110	110	110	150	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	3.4±0.2
Bundle weight, kg	38.1	26.4	27.0	32.5	25.5	32.1	33.0	25.0
Weight per sqm, kg/m <sup>2</sup>	25.4	17.6	13.5	12.5	8.5	10.7	11.0	5.0
Coverage per bundle, m <sup>2</sup>	1.5	1.5	2.0	2.6	3.0	3.0	3.0	5.0 12 lin. m (hip & ridge) or 20 lin. m (starter strip)
Quantity on the pallet, m <sup>2</sup>	45.0	54.0	84.0	93.6	126.0	108.0	108.0	200
Installation method*	a	a	a / c	a / c	b	a / b	a / b	a / c

\*Installation methods:

a – nailing;

b – torching;

c – torching with additional nailing for steep roofs (slope ≥45°).

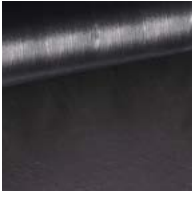


# Gallery





# Underlay bitumen membranes



## PRIMA PLAST PV

Waterproofing membrane is produced by two-sided placing of a high quality APP modified 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.



## MIDA SELF 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	PRIMA PLAST PV 3 mm	MIDA SELF SA 1.5 mm	MIDA SELF SA 2.0 mm
Thickness, mm	EN 1849-1	3.0±0.10	1.5±0.20	2.0±0.20
Mass per unit area, kg/m <sup>2</sup>	EN 1849-1	4.0±0.20	1.8±0.20	2.3±0.20
Length x width, m	EN 1848-1	10 x 1	20 x 1	20 x 1
Softening point, °C	ASTM D36	≥145	≥100	≥100
Flexibility at low temperature, °C	EN 1109-1	≤0	≤-20	≤-20
Flow resistance at elevated temperature, °C	EN 1110	≥130	≥90	≥90
Elongation L / T, %	ASTM D5147	30±15 / 30±15	35±20 / 45±20	35±20 / 45±20
Tensile strength L / T, N/50 mm	ASTM D5147	600±150 / 400±150	400±100 / 300±100	400±100 / 300±100
Tear resistance L / T, N	ASTM D4073	300±100 / 300±100	≥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 or sand	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** sealant tape 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 (PRIMER TECHNICAL No.01)

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 (PRIMER TECHNICAL No.04)

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 <sup>2</sup>	0.25–0.35	0.25–0.35
Bucket volume, l	3, 10, 20	20

## Extruded polystyrene



### TECHNICAL CARBON PROF 300

Extruded polystyrene TECHNICAL 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.



### TECHNICAL CARBON ECO

Extruded polystyrene TECHNICAL 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	TECHNICAL CARBON PROF 300	TECHNICAL CARBON ECO
Thermal conductivity $\lambda_p$ , W/m <sup>2</sup> K	0.034	0.034
Compressive stress at 10% deformation, kPa	≥300	≥200
Density, kg/m <sup>3</sup>	30-35	28-32
Length, mm	1180-4000 (±15)	1180-4000 (±15)
Width, mm	580-650 (±8)	580-650 (±8)
Thickness (increments 10 mm), mm	50-100 (±3)	20-40 (±2)



# About TECHNOMICOL Corporation

TECHNICOL 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 on 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 TECHNOMICOL 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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