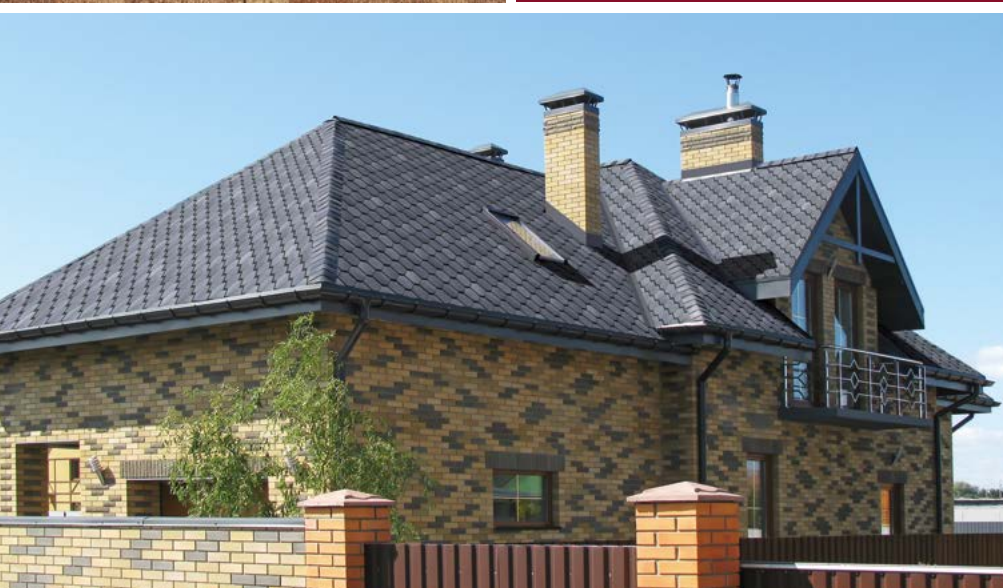




# ROOFING SHINGLES

GALLERY



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## ABOUT TECHNOMICOL

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 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.

We enjoy seeing how new high-quality materials are produced from plain raw components with our up-to-date equipment, our work and efforts.

**6 500**

QUALIFIED EMPLOYEES

**6**

R&D CENTERS

**16**

PRODUCT DIVISIONS

**25**

YEARS ON THE MARKET

**140**

BRANCHES IN 37 COUNTRIES

**53**

PRODUCTION SITES IN 7 COUNTRIES

**90**

COUNTRIES OF OPERATION

**180 000**

REFERENCES



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 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 superior quality.

## ABOUT OUR ROOFING SHINGLES

Roofing shingles are a construction material for 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.

Roofing shingles by TECHNOMICOL fully comply with EN 544. This European standard for bitumen shingles is 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 customers.



Almost anything can happen in your life, but your roof will not leak and will never let you down in technical terms. And it is important – to be certain that storms will not be stronger than the roof. Our roofing shingles have extremely good flexibility and will obediently follow even the most complicated roof shape.

The 3D spatial design of the tiles and warm tints of color that glisten and change depending on the light will remain trendy in the long term because they are bright and stylish at the same time. It is exactly what is required for a beautiful private house and the good energy thereof.

# ADVANTAGES OF OUR ROOFING SHINGLES



## RELIABILITY

Safe and durable construction material guarantee a long lifetime to your roof. Be sure a few generations of your family will not have to deal with reroofing!



## ALGAE RESISTANCE

Algae resistance for 10 years officially guaranteed.



## QUALITY ASSURANCE

TECHNONICOL Corporation provides a warranty for a period of 30 to 60 years, depending on the collection.



## WIDE COLOR PALETTE

Basalt granules of diverse shades add depth and dimension to shingles texture to get a statement-making roofing. Thanks to weather resistant mineral surface, the color will not fade over time.



## ALL-WEATHER

Our roofing shingles are suitable for any climate with temperatures ranging from -70°C to +80°C.



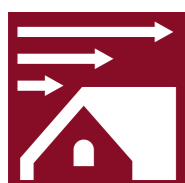
## LIGHTWEIGHT

Roofing shingles weight is just 12.5 kg/m<sup>2</sup> (COUNTRY collection) compared with 40 kg/m<sup>2</sup> weight of ceramic tiles. It results in the lower load and greater safety.



## KEEPS YOUR HOME QUIET

Multilayer coating and its specific components make extremely quiet roofing. The noise of rain, wind or hail hitting the roof will not torture you. Enjoy peace and quiet in your house!

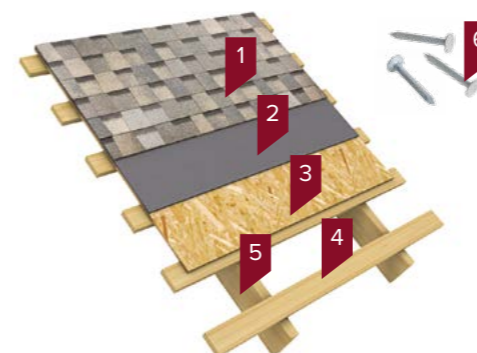


## WIND RESISTANCE

High wind resistance due to special sealant on the bottom of shingles.

# 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)

**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.

# SPECIFICATIONS

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	Fiberglass 110	Fiberglass 110	Fiberglass 90	Fiberglass 90	Fiberglass 100	Fiberglass 100	Fiberglass 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 (hips & ridge) 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°).



**TECHNONICOL  
SHINGLAS  
MULTILAYER  
ROOFING SHINGLES**



# CONTINENT collection

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



Asia



America



Africa



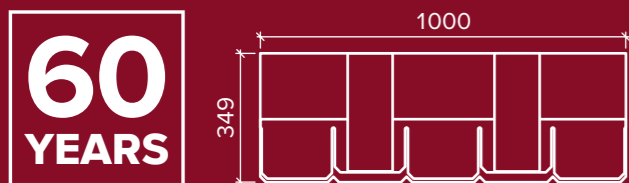
Europe



Color America



Color Africa

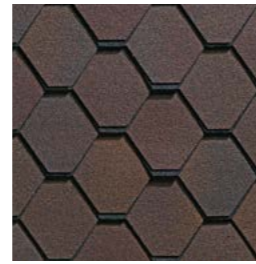


60 YEARS MANUFACTURER'S WARRANTY



# WESTERN collection

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



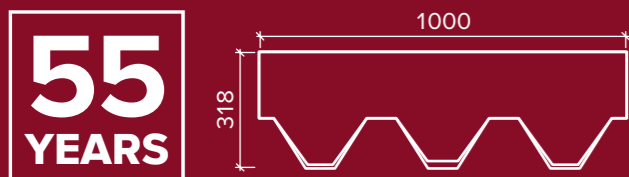
Klondike



Prairie



Niagara



**55 YEARS**  
MANUFACTURER'S WARRANTY



Color Niagara



Color Prairie



# JAZZ collection

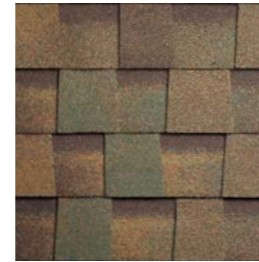
An exquisite color palette, an intricate play of hues and a dramatic 3D profile. A special pattern creates an appealing look of natural handmade tiles like slate or wooden shakes. These double-layer roofing shingles have an increased thickness and stand out for their enhanced endurance and wind resistance.



Castile



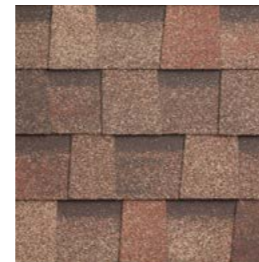
Indigo



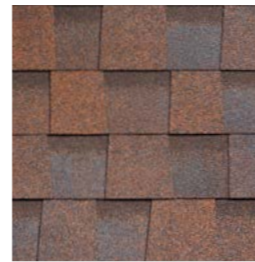
Barcelona



Alicante



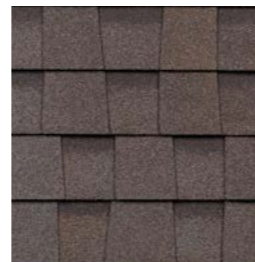
Corrida



Seville



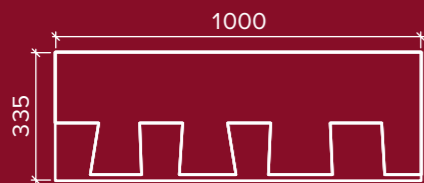
Toscana



Sicily

**50**  
YEARS

MANUFACTURER'S  
WARRANTY



Color Indigo



Color Sicily





Color Toscana



Color Alicante



Color Castile



Color Corrida



# COUNTRY collection

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.



Kansas



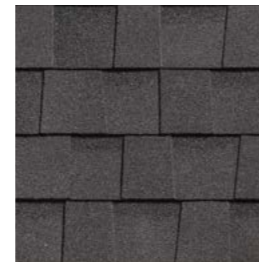
Vermont



Atlanta



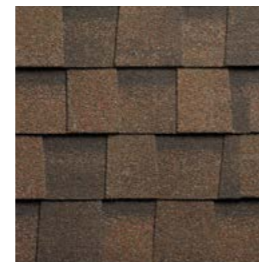
Michigan



Indiana



Alaska



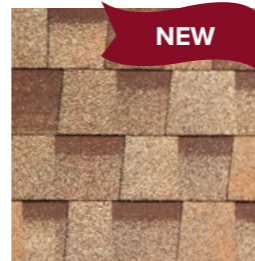
Alabama



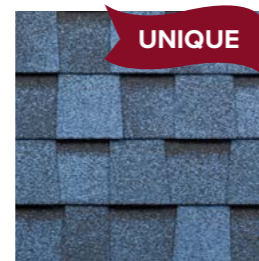
Louisiana



Texas



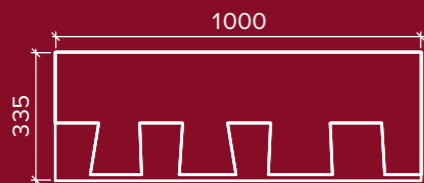
Nevada



Montana

**50 YEARS**

MANUFACTURER'S WARRANTY



Color Indiana



Color Kansas



Color Vermont



Color Alaska



Color Nevada



Color Michigan

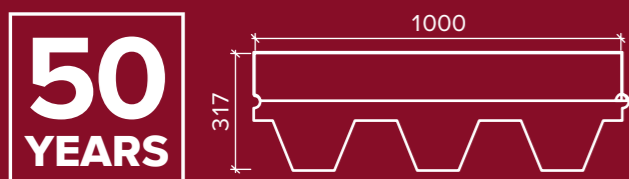


**TECHNONICOL  
ROOFING SHINGLES**

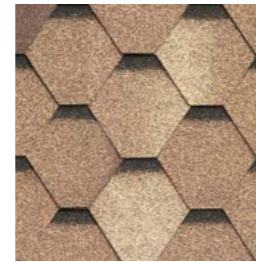


# TROPIC APP collection: HEXAGONAL

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 grown on the roof for more than 10 years.



50  
YEARS  
MANUFACTURER'S  
WARRANTY



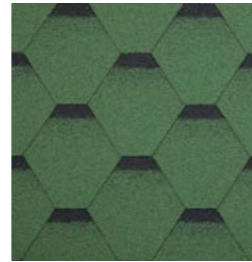
Terra



Brown



Red



Green



Color Green

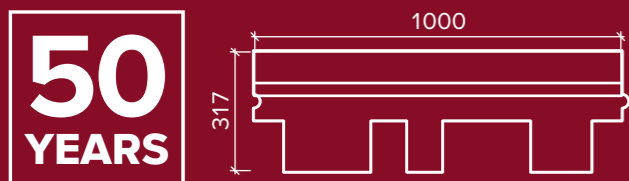


Color Red



# TROPIC APP collection: ACCORD

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 grown on the roof for more than 10 years.



**50  
YEARS**  
MANUFACTURER'S  
WARRANTY



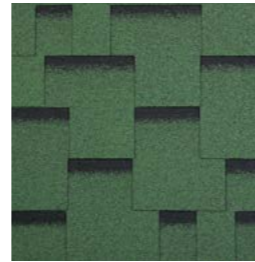
Terra



Brown



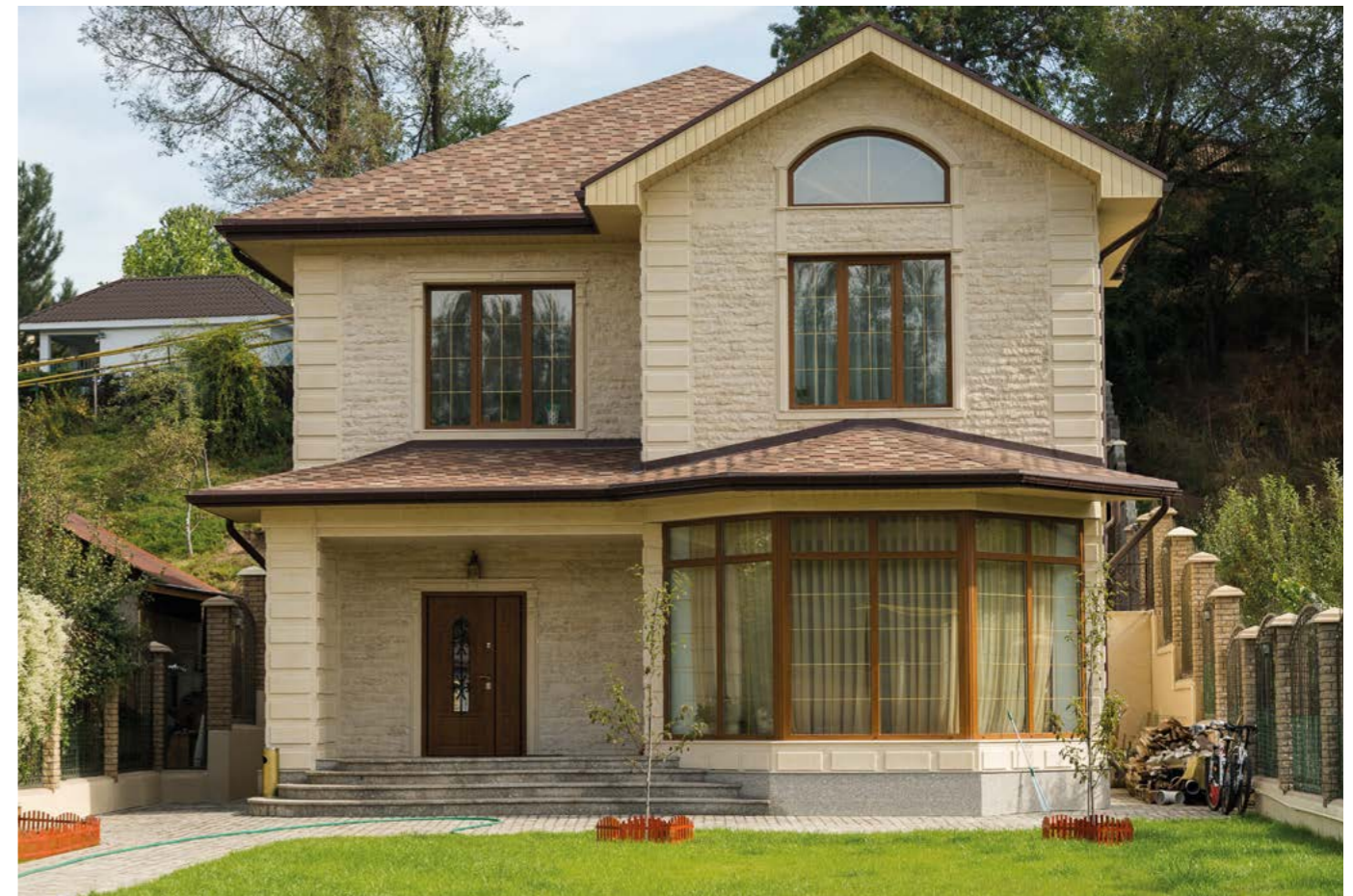
Red



Green



Color Brown

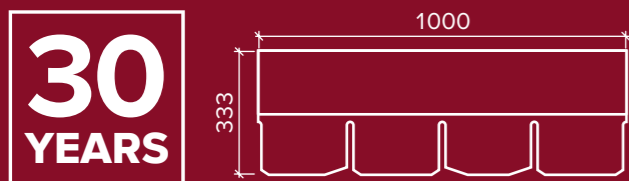


Color Terra



# CLASSIC AR series: MODERN

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.



**30  
YEARS**  
MANUFACTURER'S  
WARRANTY



Dune



Glacier



Marble



Plateau



Color Marble



Color Plateau



# CLASSIC AR series: TRIO SUPER

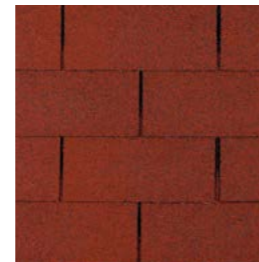
The CLASSIC AR (algae resistant) series covers a wide array of attractive colors and various cutting patterns to suit any taste. High-grade asphalt coating is used to produce these single-layer roofing shingles. Copper-containing color granules prevent algae growth on the roof for more than 10 years.



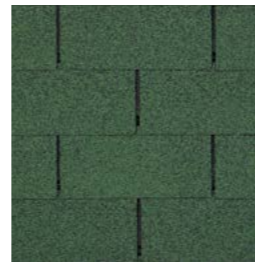
Grey



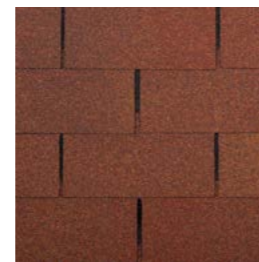
Brown



Red



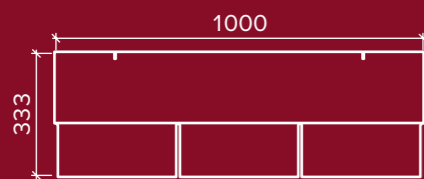
Green



Red-brown

**30**  
YEARS

MANUFACTURER'S  
WARRANTY



Color Red



Color Brown





## ACCESSORIES

## 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. 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).



## 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 protection as underlay membrane for pitched roofs. APP polymer provides additional flow resistance at elevated temperature that makes it possible to use the material in a very hot climate.



### MIDS 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, 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



## BITUMEN PRIMERS



### BITUMEN PRIME COATING

Ready to use BITUMEN PRIME COATING (PRIMER TECHNICAL No.01) 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 (PRIMER TECHNICAL No.04) 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
Content of bitumen with emulsifier, %	-	25-40
Mass fraction of non-volatile substances, %	45-55	-
Drying time at 20°C, h	12	1
Relative viscosity, s	15-40	5-30
Softening temperature, °C	≥70	≥75
Consumption, l/m <sup>2</sup>	0.25-0.35	0.25-0.35
Bucket volume, l	3, 10, 20	20

## 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 of aluminium 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		-	+	+	+	+	+

## EXTRUDED POLYSTYRENE

### TECHNICOL 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.



### TECHNICOL CARBON ECO

Extruded polystyrene TECHNICAL CARBON ECO is a thermal insulating material, which is widely used in buildings and constructions while arranging thermal insulation of basements, roofs, floors and facades.



PROPERTIES	TECHNICOL CARBON PROF 300	TECHNICOL CARBON ECO
Thermal conductivity $\lambda_D$ , W/m*K	0.034	0.034
Compressive stress at 10% deformation, kPa	≥300	≥200
Long term water absorption by immersion, %	≤0.2	≤0.2
Reaction to fire - ignitability, Euroclass	F	F
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)

# OTHER ACCESSORIES

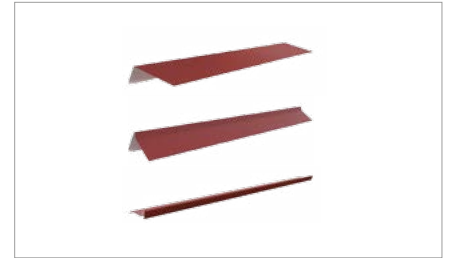
## TECHNONICOL ROOFING NAILS

Special anticorrosive roofing nails with a circular cross-section and broad heads are used for quick and easy mechanical fastening of bitumen shingles to a wooden deck. Also used for mechanical fastening of other roof components. Head diameter  $\geq 9$  mm, shank length - 30 mm.



## METAL FLASHINGS

Metal flashings are used to seal and protect joints from water penetration in such vulnerable areas as eaves, joints between roof and chimney or wall. Available in a variety of colors to fit the main tone of roofing shingles. Dimensions: length - 2 m, thickness - 0.45 mm.



## MASTIC FIXER

Special polymer-bitumen mastic FIXER is used to provide extra adhesion of roofing shingles and other bitumen-based materials to such surfaces as bricks, concrete, metal, wood, ceramic, etc. Ready to use mastic is available in different packages. Application temperature ranges from  $-5^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .



## VALLEY ROLL MATERIAL

Used as waterproofing underlayment in roof valleys, which are prone to leakages under rain loads and thus require extra protection. This material is also used to seal joints between roofing and piping or vertical walls. Basalt covering is available in a wide variety of colors to fit the hue of roofing shingles. Dimensions: 1 m x 10 m.



## TECHNONICOL RIDGE VENTILATION

A necessary element for pitched roofs that helps to remove excess moisture out of roofing system. Hip & ridge shingles (matching a basic roof color) are installed over the ridge ventilation to make it unnoticeable and to finalize the look of the roof. 1 ridge ventilation normally covers 20-25  $\text{m}^2$ . Dimensions: 0.61 m x 0.29 m.



## TECHNONICOL VENTILATION COMPONENTS

Used for complicated roof designs as extra ventilation components to remove excess moisture out of roofing system. 1 ventilation unit normally covers 5-10  $\text{m}^2$  of the roof area. Outlet diameter - 110 mm. 2 types are available depending on the type of installation. Colors: red, green, brown, grey, blue, black.



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Singapore 658071

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