



# ROOFING SHINGLES

COLLECTION OF COLORS AND SOLUTIONS

# MULTILAYER ROOFING SHINGLES

## COUNTRY AR collection

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.



MANUFACTURER'S WARRANTY



Florida



Kentucky



California



Minnesota

**NEW SHADES**



Louisiana



Alaska



Vermont



Kansas



Atlanta



Indiana



Montana



Texas



Alabama



Michigan



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.



**Color: California**



**Color: Michigan**



**Color: Indiana**



**Color: Kentucky**



> COUNTRY AR collection, color: Texas

> COUNTRY AR collection featuring a versatile palette available in a stunning array of earthy tones - think rich browns, soft reds, and muted greys - that complement any landscape.



> COUNTRY AR collection, color: Louisiana



> COUNTRY AR collection, color: Nevada



INSTALLATION MANUAL  
nailing method



REFERENCES  
video review



INSTALLATION MANUAL  
torching method

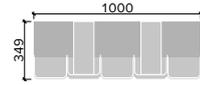


PROMO  
COUNTRY AR Collection

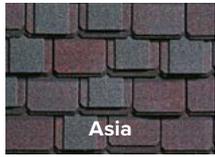
# MULTILAYER ROOFING SHINGLES

## CONTINENT collection \*

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

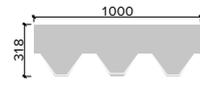


MANUFACTURER'S WARRANTY



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



MANUFACTURER'S WARRANTY



# SINGLE-LAYER ROOFING SHINGLES

## CLASSIC AR series

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.

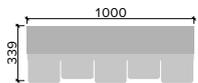
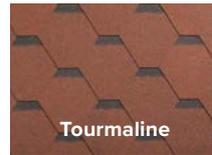
**30**  
**YEARS**  
MANUFACTURER'S  
WARRANTY



**MODERN**

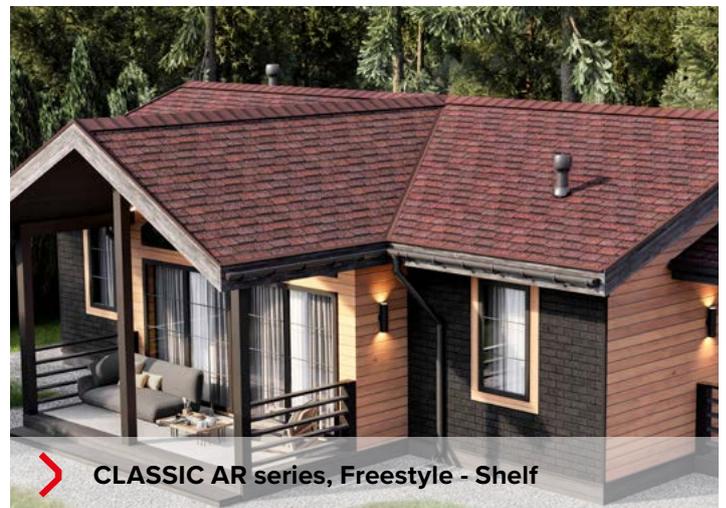


**QUADRILLE**



**FREESTYLE \***

The Freestyle collection stands out among single-layer roofing shingles due to its unique cutting pattern with rhythmically defined "petals" of different heights.



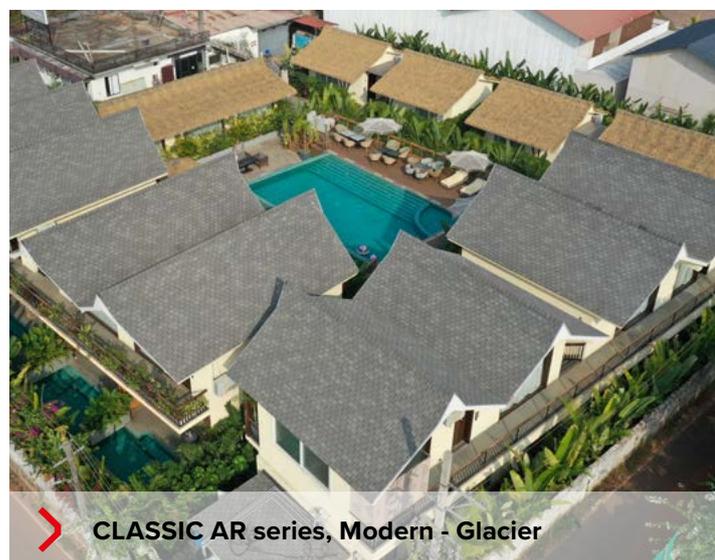
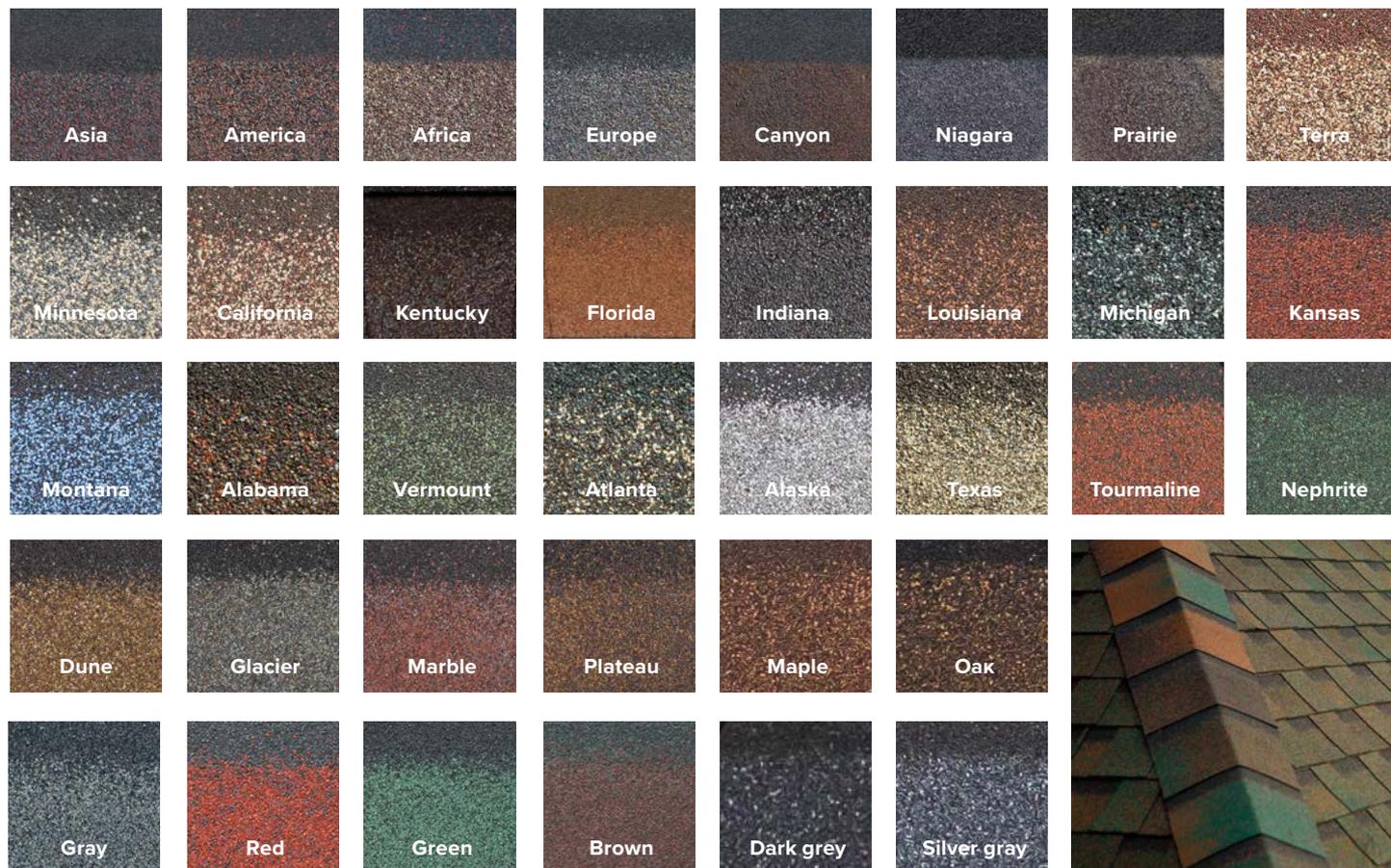
# SINGLE-LAYER ROOFING SHINGLES

## 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.



# SPECIFICATIONS

Roofing shingles by TECHNOMICOL 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.

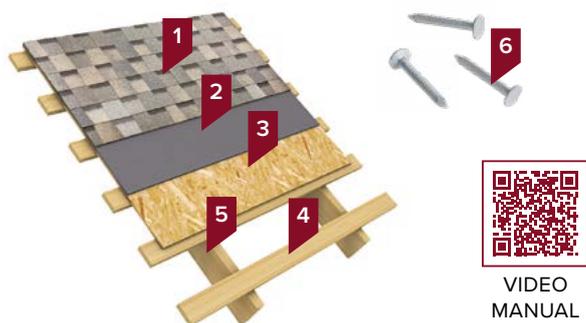
PROPERTIES	MULTILAYER			SINGLE-LAYER		
	CONTINENT	WESTERN	COUNTRY	CLASSIC		HIP & RIDGE
				MODERN	QUADRILLE	
Warranty, years	60	55	50	30	30	—
Base per layer	Fiberglass 110	Fiberglass 110	Fiberglass 90	Fiberglass 100	Fiberglass 100	Fiberglass 110
Type of bitumen	oxidized	oxidized	oxidized	oxidized	oxidized	SBS
Flow resistance at elevated temperature, °C	110	110	110	110	110	100
Thickness per layer, mm	3.2±0.2	3.0±0.2	2.7±0.2	3.0±0.2	3.1±0.2	3.4±0.2
Bundle weight, kg	38.1	26.4	31.5	32.1	26.7	27.5
Weight per sqm, kg/m <sup>2</sup>	25.4	17.6	12	10.7	8.9	5.5
Coverage per bundle, m <sup>2</sup>	1.5	1.5	2.6	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	93.6	108.0	108.0	200
Installation method*	a	a	a / c	a / b	a / b	a / c

\*Installation methods: a – nailing; b – torching; c – torching with additional nailing for steep roofs (slope ≥45°).

## Systems

As experts in bitumen waterproofing for flat and pitched roofs, we understand what's essential. Benefit from proven system quality that effectively protects buildings and ensures roof waterproofing.

### SYSTEM WITH NAILING METHOD



1. Roofing shingles by TECHNOMICOL
2. Underlay membrane ULTRAFLEX SA (self-adhesive)
3. Wood decking
4. Counter battens
5. Rafter
6. Roofing nails

### SYSTEM WITH TORCHING METHOD



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

Our team of experts provides exceptional services which encompasses customized material calculations, extensive technological training, and expert advice on material usage. These services are tailored to support you throughout your project, ensuring you receive expert guidance every step of the way.

# RELATED MATERIALS

## Underlay 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 longterm, 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 polymer-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	UNDERLAY NEXT FIX	UNDERLAY NEXT SELF
Thickness, mm	EN 1849-1	2.0±0.20	1.5±0.20	2.0±0.20	-	-
Mass per unit area, kg/m <sup>2</sup>	EN 1849-1	2.8±0.28	1.8±0.20	2.3±0.20	0.7±0.1	1.0±0.1
Length × width, m	EN 1848-1	15 × 1	20 × 1	20 × 1	30 × 1.1	25 × 1
Softening point, °C	ASTM D36	≥145	≥100	≥100	≥100	≥100
Flexibility at low temperature, °C	EN 1109-1	≤-2	≤-20	≤-20	≤-15	≤-15
Flow resistance at elevated temperature, °C	EN 1110	≥120	≥90	≥90	≥90	≥90
Elongation L / T, %	ASTM D5147	40±8 / 45±9	35±20 / 45±20	35±20 / 45±20	20±10 / 20±10	20±10 / 20±10
Tensile strength L / T, N/50 mm	ASTM D5147	750±150 / 600±120	400±100 / 300±100	400±100 / 300±100	600±200 / 600±200	600±200 / 600±200
Tear resistance L / T, N	ASTM D4073	≥200 / ≥200	≥100 / ≥100	≥100 / ≥100	500±100 / 500±100	500±100 / 500±100
Peel resistance of joints, N/50mm overlap to overlap / overlap to film	EN 12316-1	-	≥40 / ≥20	≥60 / ≥30	40±15 / -	40±15 / -
Protective covering type on the top	-	polymer film	polymer film or sand	polymer film or sand	multilayer polypropylene fabric	multilayer polypropylene fabric
Protective covering type on the bottom	-	polymer film	anti-adhesion film	anti-adhesion film	metallized film + bitumen self-adhesive strips	anti-adhesion film

### STORAGE:

Polymer-bitumen membranes should be stored vertically on pallets in 1 row upright, protected from humidity and direct sunlight (under sheds). Short-term outdoor storage of pallets with polymer-bitumen membranes is allowed providing that original package is not damaged. The distance from heat sources (heaters) should be more than 1 m.

# RELATED MATERIALS

## Underlay membranes

### UNDERLAY NEXT FIX

UNDERLAY NEXT FIX mechanically fastened non-reinforced SBS-modified bitumen membrane is used as an underlay on pitched roofs with a continuous rigid wood decking (OSB-3, plywood, tongue and groove planks). The top side of the material is coated with a strong multilayer polypropylene fabric. The metallized film on the bottom side provides additional nail shank tear resistance.



### UNDERLAY NEXT SELF

UNDERLAY NEXT SELF self-adhesive non-reinforced SBS-modified bitumen membrane is used as an underlay on pitched roofs with a continuous rigid wood decking (OSB-3, plywood, tongue and groove planks). The top side of the material is coated with a strong multilayer polypropylene fabric. The self-adhesive binder on the bottom side is coated with an easily removable protective film.



## Construction films

### ALPHA ANDEREP

ALPHA ANDEREP is designed for additional waterproofing of roofs with the main roof area covered with bitumen shingles.

ALPHA ANDEREP is an underlayment with a carrier made of woven polypropylene fabric and non-woven polyolefin layer, with a non-slip surface (non-woven polypropylene fabric) and protection from UV radiation.

The self-adhesive strip on the upper side of the material guarantees reliable waterproofing in places of longitudinal overlaps. The strip is protected by an easily removable siliconized film.



PROPERTIES	ALPHA ANDEREP
Surface density	100 - 150 ±5%
Tensile strength L / T, N/50 mm	600 / 400
Vapor permeability per 24 hours, g/m <sup>2</sup>	7
Water tightness, method A	pass
UV resistance, months	≥ 3
Length x width, m	46,7 x 1.5 ±1%
Weight of the roll, kg	8.4
Reinforcement type	woven polypropylene fabric and non-woven polyolefin layer



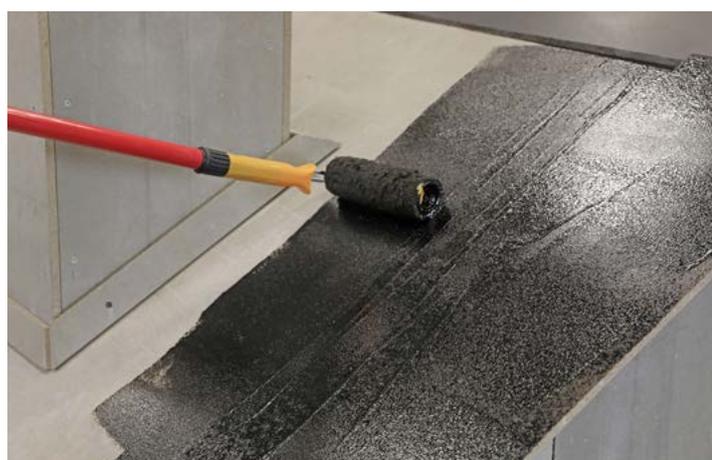
# RELATED MATERIALS

## Primers and mastic

### BITUMEN PRIME COATING

Ready to use BITUMEN PRIME COATING primer 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 <sup>2</sup>	0.25-0.35	0.25-0.35
Bucket volume, l	3, 10, 20	20

## Self-adhesive sealant tape

### NICOBAND

This is a very convenient way to seal various cracks and joints. It 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 a specially formulated polymer-bitumen binder.

WIDTH, cm	5	7.5	10	15	20	30
Length: 3 m	+	+	+	+		
Length: 10 m		+	+	+	+	+



# RELATED MATERIALS

## Extruded polystyrene

### TECHNONICOL CARBON ECO

TECHNONICOL CARBON ECO extruded polystyrene is a high-performance material widely used for buildings and structures when installing the thermal insulation of basements, roofs, floors and facades.

TECHNONICOL CARBON ECO is a thermal insulation material with uniformly distributed closed cells, which does not swell, shrink or absorb water. It is chemically resistant and is not susceptible to putrefaction.



### TECHNONICOL CARBON PROF 300

TECHNONICOL CARBON PROF 300 extruded polystyrene is a high-performance material with increased compressive stress parameter what is widely used in buildings and constructions while arranging the thermal insulation of basements, roofs, floors and facades. It is also used in the construction of railways and highways. The high strength of the material allows receiving an even and simultaneously rigid substrate that substantially increases the durability of the whole thermal insulation system.

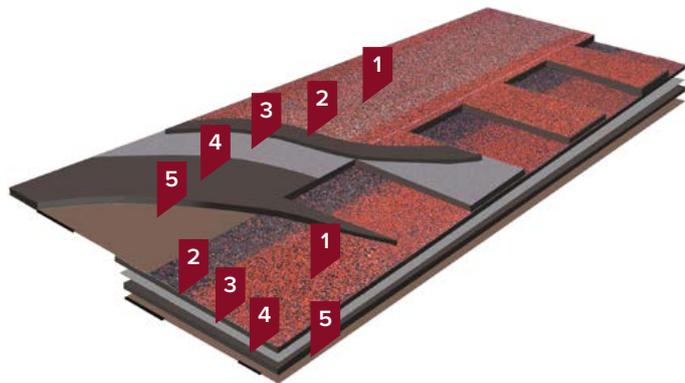


PROPERTIES		TECHNONICOL CARBON ECO	TECHNONICOL CARBON PROF
Thermal conductivity λD, W/m*K	ASTM C177 (ASTM C518)	0.028-0.030	0.028
Compressive stress at 10% deformation, kPa	ASTM D1621 (EN 826)	220 - 270	300 - 350
Long term water absorption by immersion WL(T), %	ASTM C272 (EN 12087)	≤ 0.7	≤ 0.7
Density, kg/m <sup>3</sup>	ASTM D1622 (EN 1602)	25 - 28	32 - 36
Oxygen Index, Minimum % v/v	ASTM D 2863	24	24
Length, mm	EN 822	1180-1200( ±15)	1180-1200 (±15)
Width, mm	EN 822	580-600 (±8)	580-600 (±8)
Thickness, mm	EN 823	20-40 (-2; +3)	50-120 (-2; +3) 130-200 (-2; +8)



# WHY TO CHOOSE TECHNONICOL ROOFING SHINGLES

TECHNONICOL SHINGLES are modern shingles with high aesthetic and operational parameters which have improved properties and create a unique relief of the roof.



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 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



### NOISE INSULATION

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!



### QUALITY ASSURANCE

TECHNONICOL roofing shingles provide guaranteed comfort and safety to the house. This durable and long-lasting roofing material comes with a manufacturer's warranty of up to 60 years.



### ALL-WEATHER

Our roofing shingles efficiently protect you from merciless heat as well as from freezing winds, and thus help to maintain comfort temperature inside all the year round! They are suitable for any climate with temperatures ranging from -70°C to +80°C.



### RELIABILITY

Each new layer is a new level of reliability. Multilayer roofing shingles is an ultimate choice for those who select superior architectural solutions, safe and durable construction materials.



### MULTILAYER ROOFING MATERIAL

Multilayer structure of the roofing shingles guarantee a long lifetime to your roof. Be sure a few generations of your family will not have to deal with reroofing!



### 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.

#### TECHNONICOL India Private Limited

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