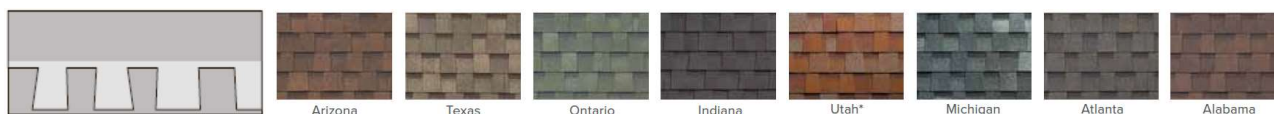



**PRODUCT TECHNICAL
DATA SHEET**
Nr. 135/1
15 February 2018
“Zavod Shinglas” LLC
Vostochny Promuzel, 21, Bld. 58
390000, Ryazan, Russia
Phone: (4912) 911-228, 911-221;
Fax: (4912) 911-221; www.shinglas.ru
**CHARACTERISTICS OF THE PRODUCT:
GENERAL INFORMATION**
PRODUCT: TECHNOMICOL SHINGLAS multilayer roofing shingles, Country
Produced according to requirements: EN 544:2011. Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods.

MANUFACTURER: “Zavod Shinglas” LLC, Ryazan, Vostochny Promuzel, 21, Bld. 58
ORIGIN: Russian Federation

INTENDED USE: Discontinuously laid roof covering for buildings

 The bitumen shingles are tiled on pitched roofs the inclination of which is $\geq 12^\circ$.

The bitumen shingles are used for installation of the new roofs and reconstruction of the old ones.

METHOD OF APPLICATION: it fastens mechanically to the smooth and continuous basis of pitched roofs with roofing nails according to the manufacturer installation instruction.

TECHNICAL DATA:

Characteristics	Test method in the EN 544:2011 or other standards	Units	Requirements	Value or statement	Declared tolerances
Mass of bitumen	6.2	g/m ²	≥ 1500	1550	± 50
Height (H)	6.3	mm	minimum 250	335	$\pm 3,0$
Width (W)	6.3	mm	maximum 1200	1000	$\pm 3,0$
Flow resistance at elevated temperature	EN 1110	mm	≤ 2 mm at 110 °C	Pass	
Adhesion of granules and flakes of slate	EN 12039	g	$\leq 2,5$	$\leq 1,2$	
External fire performance	ENV 1187	–	In accordance with EN 13501-5	B _{ROOF}	
Reaction to fire	EN 13501-1	–	EN 13501-1	E	

PACKING DATA:

Main characteristics	Units	Country multilayer roofing shingles
Package	m ²	2,6
Weight of package	kg.	32,5
Quantity in the package	units	18
Quantity on the pallet	m ²	93,6
Weight of a pallet, gross weight	kg.	1195

REFERENCES OF MANUFACTURER:

Packages with shingles should be stored in horizontal position combined on wooden pallets no more than 12 rows of packages in height and should be protected against moisture, heat (temperature not higher than +40°C) and mechanical damage.

The minimum temperature of installation is 6 °C. In the cold season, the Packages with shingles should be kept at the temperature more then +20°C not less 24 hours before use. Storage life before instaling 24 m.