

**PRODUCT TECHNICAL  
DATA SHEET  
No. 111 - 6  
July, 2016**

**JSC "Mida LT"**  
Gamyklos 19, Gargzdai,

**CHARACTERISTICS OF THE PRODUCT:**

**GENERAL INFORMATION**

**PRODUCT:** Bitumen shingles **HIP AND RIDGE 4E2**

**Produced according to requirements:** EN 544:2011. Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods.

**MANUFACTURER:** JSC "Mida LT", Gamyklos 19, Gargzdai  
**ORIGIN:** Lithuania

**INTENDED USE:** Discontinuously laid roof covering for buildings  
The bitumen shingles are tiled on pitched roofs with the inclination of  $\geq 12^\circ$ .  
The bitumen shingles are used for installation of the new roofs and reconstruction of the old ones.

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

**TECHNICAL DATA:**

Characteristics	Test method in the EN 544 or other standards	Units	Requirements	Value or statement	Declared tolerances
Mass of bitumen	6.2	g/m <sup>2</sup>	$\geq 1300$	1300	
Height (H)	6.3	mm	minimum 250	250	$\pm 3,0$
Width (W)	6.3	mm	maximum 1200	1000	$\pm 3,0$
Tensile properties : maximum tensile force (width) maximum tensile force (height)	EN 12311-1	N/50 mm	$\geq 600$ $\geq 400$	850 600	$\pm 200$ $\pm 200$
Resistance to tearing (nail shank)	EN 12310-1	N	$\geq 100$	220	$\pm 100$
Water absorption	6.4.3	%	$< 2$	$\leq 1,5$	
Resistance to UV radiation	EN 1297		60 cycles	Pass 60 cycles	
Blistering	6.4.5		Pass	Pass	
Flow resistance at elevated temperature	EN 1110	°C	$\leq 2$ mm at 90 °C	$\leq 2$ mm at 100 °C	
Adhesion of granules and flakes of slate	EN 12039	g	$\leq 2,5$	$\leq 1,5$	
Flexibility at low temperature	EN 1109	°C	$\geq -10$	- 10	
External fire performance	ENV 1187	–	In accordance with EN 13501-5	B <sub>ROOF</sub> (t1)*	
Reaction to fire	EN 13501-1	–	EN 13501-1	E	

\* Refer to Reaction to Fire Testing Division of FIRE RESEARCH CENTRE, notified body 1796, External fire exposure to roofs classification report No. 20-1.2016.26N.

**REFERENCES OF MANUFACTURER:**

The packages with shingles should be stored and transported in horizontal position combined on pallets and should be protected against moisture, heat and mechanical damage

The minimal recommended temperature of installation is 5 °C.

In the cold season, the packages with shingles should be kept in a warm, dry place at the temperature more than +20°C for not less than 24 hours before use.

When using bitumen fixing mastic, please apply it in thin layer not exceeding 1 mm in thickness.