

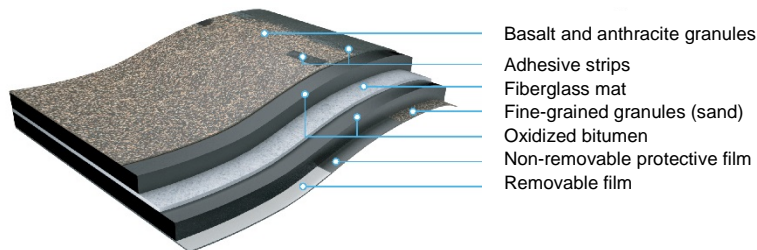
## Bitumen Shingles Döcke PIE EUROPA

### 1. Product description.


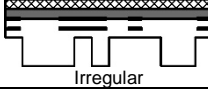
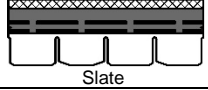



Roofing piece material "Bitumen Shingles Döcke PIE EUROPA" – a roofing product in the form of a flat sheet, made of impregnated oxidized bitumen fiberglass with figured cuts along one edge of the sheet. The upper surface of the shingles is covered with basalt and anthracite granulate tipped to bitumen. The lower surface of the shingles is covered with fine-grained sand, as well as with transport films. The warranty period is 20 years.

### 2. Product usage.

Roofing piece material "Bitumen Shingles Döcke PIE EUROPA" is intended for pitched roofs of buildings and constructions with a roof slope from 12 to 90 degrees.



### 3. Geometric parameters.

№	Indicators description, units	Value		
		KARAT	MATRIX	SLATE
1	Shape cut and the dressing compound area of the front side of a shingle	 Hexagonal	 Irregular	 Slate
		 - main area	 - shadow side	 - headlap (color of the granules may differ from the main and the shadow areas)
2	Length, mm	1 000 ± 3		
3	Thickness, mm	2,8 ± 0,2		
4	Width, mm	318 ± 3	318 ± 3	333 ± 3
5	Overlap index	1,83	1,83	2,35

### 4. Physical and mechanical properties.

№	Indicators description, units	Value
1	Maximum tensile force in the longitudinal direction, N, not less than	600
2	Maximum tensile force in the transverse direction, N, not less than	400
3	Tensile strength of the nail, N, not less than	130
4	Heat resistance of the material, 2 hours at a temperature, °C, not lower than	100
5	Flexibility of material on the bar R = 25 ± 0.2 mm, °C, not higher	0
6	Loss of granules or scales of sprinkling, gram per sample, not more than	2
7	Resistance to aging under the influence of artificial climatic factors	Pass (60 cycles)
8	Water absorption for 24 hours, % mass, not more than	2
9	Resistance to blistering	Stable

### 5. Logistics characteristics.

№	Indicators description, units	Value		
		KARAT	MATRIX	SLATE
1	Bundles on a pallet	42	42	42
2	Number of sheets in a package, pcs.	22	22	22
3	Gross weight of one package, kg	27	27	34,4
4	Gross pallet weight, kg	1 135	1 135	1 445
5	Covering surface per package, m²	3	3	3,1

### 6. Storage rules.

- Products must be stored in the original packaging of the manufacturer on pallets. Violation of the manufacturer original packaging is strictly prohibited.
- Products must be stored only in a closed and dry room at a distance of at least 1,5 m from the heaters.
- Stacking the pallets on top of each other is prohibited.
- Products must be stored at a temperature not lower than -40 °C and not above +50 °C.
- Products must be stored at a relative air humidity of not more than 80%.
- Avoid exposure to direct sunlight during storage.
- Stacking of packs - no more than 16 rows in height.

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