



PREMIUM SHINGLES • The polymer modified bitumen shingle



>>> Monarch® (07) Dual Brown





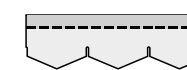
PREMIUM SHINGLES • The polymer modified bitumen shingle

Your Benefits:

- Upgraded shingle option manufactured with polymer-modified bitumen
- Thicker shingle
- More flexible at low temperatures
- Additional resistance at high temperatures
- Resistant against extreme weather conditions
- Maximum durability due to APP modified bitumen



Monarch®



Monarch®-Diamant

Width (EN 544)	1000 mm (± 3)	1000 mm (± 3)
Height (EN 544)	336 mm (± 3)	284 mm (± 3)
Weight (slope > 25°)	± 12,5 kg/m ²	± 12,0 kg/m ²
Coverage/bundle	2,58 m ²	2,46 m ²
Shingles/bundle	18	22
Bundles/pallet	48	42

Granule adhesion (EN 12039)	max. 1,2 g
Tensile strength (width)* (EN 12311-1)	900 N/50 mm
Tensile strength (height)* (EN 12311-1)	600 N/50 mm
Elongation (width)* (EN 12311-1)	3,50 %
Elongation (height)* (EN 12311-1)	3,50 %
Nails shank tear resistance* (EN 12310-1)	165 N
Flexibility at low temp. (EN 1109)	≤ -5 °C
Heat resistance (EN 1110)	140 °C

External fire performance (EN 13501-5)	B _{roof} (t _i)
Reaction to fire (EN 13501-1)	Class E

* Registered average values



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 **IKO**
 The Shingles Expert