



BENIFERRO.eu
plug & play products

Technical specifications

EPDM SOLAR HEATING

ZVZX1010-P, ZVZX1210-P, ZVZX1220-P, ZVZX1230-P, ZVZX1240-P

Material description

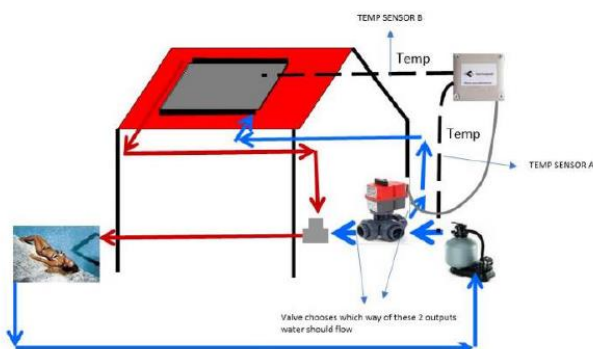
- **EPDM** is a rubber polymer with a number of interesting properties including:
 - Good resistance to weather (including ozone and UV radiation)
 - Good temperature resistance from -35°C to + 120°C
 - Resistant to chlorine

Product description and use

The EPDM solar heating is used to heat swimming pools in an ecological way. The function is simple: a pump sends water through the EPDM mats (B→C) which are filled with fine tubes. When these mats are in the sun they can heat up to 60 °C and the water that is flowing in it will thus warm up very quickly.

Used for built-in as well as stand-up swimming pools. The EPDM can be combined with a heat pump, so it can be used all year round.

With EPDM solar collectors the water can rise by 6°C per day.



Product details

Description: EPDM pool solar heating consists of rubber and collectors, which are made of ASA. ASA is used because it has a high UV resistance and because it is compatible with PVC glue.

Measurements	code	Barcode	HS Code
2m x 1m EPDM-Solar heating pool	ZVZX1010-P	0650905861000	40082190
3m x 1m EPDM- Solar heating pool	ZVZX1210-P	0650905861024	40082190
4m x 1m EPDM- Solar heating pool	ZVZX1220-P	0650905861048	40082190
5m x 1m EPDM- Solar heating pool	ZVZX1230-P	0650905861079	40082190
6m x 1m EPDM- Solar heating pool	ZVZX1240-P	0650905861093	40082190
Made to measure	ZVZX1320-P	0650905861208	40082190



EPDM technical details

Wall thickness	1.5 mm
Internal diameter	5 mm
External diameter	8 mm
Number of tubes per 150 mm	10
Max. length	60 m
Tear resistance	7,5 N/mm ²
Tear resistance after 168h at 100°C	>25%
Fracture at elongation	>200 %
Weight per meter	113 g
Compression 24h/100 °C	<35%
Resistant to freezing	yes
Max temperature	70°C
Max pressure	2 bar
Temperature control	Via Manual bypass or automatic valve (ZALX2160-K, ZVZX2183-P)

Collector technical details

Material	ASA
Length	33cm
Diameter	50mm
Number of inlet/outlet tube connector	20
Max pressure	2 bar
Max temperature	70°C
Resistant to freezing	No
Pipe connections	32-38 and 50mm
Fastening systems	Silicone or nylon hose clamp (ZVZX1420-8)

Packaging

Packaging	Cardboard box (white or coloured) 2-4 meter EPDM : 39cmx40cmx39cm(h) 5-6 meter EPDM : 50,5cmx40cmx41cm(h)
Colour	Black
Weight empty (full)	EPDM 2m : 18 boxes – 7kg EPDM 3m : 18 boxes – 10,5kg EPDM 4m : 18 boxes – 14kg EPDM 5m : 12 boxes – 17,5kg EPDM 6m : 12 boxes – 21 kg
Number of boxes per pallet (pallet weight)	EPDM 2m : 18 boxes – 126kg EPDM 3m : 18 boxes – 189kg EPDM 4m : 18 boxes – 252kg EPDM 5m : 12 boxes – 210kg EPDM 6m : 12 boxes – 252kg
HS code for export	40082190

Content box

- 3 pre-assembled EPDM panels (length 2,3,4,5 or 6 meter) with on each end a collector
- 8 O-rings
- 8 zip-ties
- 2 connectors for a flexible hose (50-38-32 mm)
- 2 closed collector ends: screw cap

Heat absorption

Under a angle of 30°, the heat absorption is approximately 700W/m².
This means that with 10m² EPDM, 10m³ water can be heated by 0,7 °C in 1 hour

EPDM quantity necessary for heating the pool

Nord, West and East Europe	75-100% of the pool surface
South of France, Italy	50-75% of the pool surface
Spain	33-50% of the pool surface

