

# *kaiflex*<sup>®</sup> SOLAR EPDM



## Designed to improve solar hot water efficiency

Twin coils of corrugated stainless steel pipe pre-insulated with solar grade EPDM insulation, **Kaiflex Solar EPDM VA** connects solar panels to storage cylinders while minimising energy loss, keeping solar water hot long into the colder months.

Kaiflex EPDM Solar VA is based on naturally UV-resistant EPDM rubber and comes with an additional co-extruded foil pre-applied that deters accidental and deliberate damage and vandalism over long periods of time.

The corrugated pipe is specifically designed for to withstand high solar temperatures and pressures. By incorporating a corrugated structure the pipe can be effortlessly bent around the tightest bends and Kaiflex EPDM Solar is fully compatible with all standard solar panels, cylinders, pumps and fittings.

**Kaiflex Solar EPDM-CO** is based on naturally UV-resistant EPDM rubber and comes with an additional co-extruded foil pre-applied that deters accidental and deliberate damage and vandalism over long periods of time.

Highly flexible and temperature resistant up to 150°C, Kaiflex Solar EPDM-CO will not experience degradation at solar hot water temperatures..

- Reduces solar energy loss, improving efficiency
- Pre-insulated coils for quicker and easier installation
- Unique protective woven polyester fibre covering
- Integrated electrical sensor cable
- Compatible with standard solar fittings

## Kaiflex Solar Technical Specification

Description		win coils of corrugated stainless steel pipe pre-insulated with high temperature Kaiflex EPDM insulation with a tough co-extruded foil covering.	
Corrugated Stainless Steel Pipe	Material	1.4404 / AISI 316L	
Cell Structure		Closed Cell	
Colour		Black	
Upper Temperature Limit		+150°C (+175°C)	
Lower Temperature Limit		-50°C	see remark (1)
Thermal Conductivity	at -0°C at +40°C	0.038 W/(m·K) 0.042 W/(m·K)	Test acc. to EN ISO 8497
Water Vapour Barrier		In-built	
Water Vapour Resistance	Moisture Resistance Factor $\mu$	$\geq 4\ 500$	Test acc. to EN 12086 & EN 13469
EuroClass		E	Test acc. to EN 13501-1
Reaction to Fire		Self-extinguishing, does not drip	
Environmental Aspects		ODP zero GWP zero Cadmium free	
Health Aspects		Dust & Fibre free Formaldehyde free	
Resistance to ...	Mould UV radiation	Excellent Excellent	
Other Attributes	PH-value	Neutral	
Outdoor Applications		NO additional protection against UV impact is required.	

## Corrugated Steel Pipe

Nom ID mm	Inner Diameter mm	Outer Diameter mm	Pipe Thickness mm	Min. Bending Radius mm	Max. System Pressure bar	Volume l/m
16	16.3	21.4	0.2	25	16	0.273
20	20.5	26.7	0.2	30	10	0.430
25	25.4	31.8	0.2	35	10	0.633

Remark (1) For temperatures below -50°C please ask our Technical Support Team for advice. Tel. +44 (0)161 408 1806, Email knowhow@kaimann.com



## Kaiflex Solar EPDM 2in2 VA pre-insulated twin tubes

Twin corrugated stainless steel pipes pre-insulated using Kaiflex EPDM plus with foil coverings pre-applied.

Nom ID mm	Insulation thickness mm	Description	Reference	carton / pallet	m / carton	
16	14	Pre-Covered Kaiflex Solar twin tube DN 16 with 14 mm insulation	SOLAR-VA-14x16/10	10	10	
16	14	Pre-Covered Kaiflex Solar twin tube DN 16 with 14 mm insulation	SOLAR-VA-14x16/15	10	15	
16	14	Pre-Covered Kaiflex Solar twin tube DN 16 with 14 mm insulation	SOLAR-VA-14x16/20	6	20	
16	14	Pre-Covered Kaiflex Solar twin tube DN 16 with 14 mm insulation	SOLAR-VA-14x16/25	6	25	
20	14	Pre-Covered Kaiflex Solar twin tube DN 20 with 14 mm insulation	SOLAR-VA-14x20/10	10	10	
20	14	Pre-Covered Kaiflex Solar twin tube DN 20 with 14 mm insulation	SOLAR-VA-14x20/15	8	15	
20	14	Pre-Covered Kaiflex Solar twin tube DN 20 with 14 mm insulation	SOLAR-VA-14x20/20	6	20	
20	14	Pre-Covered Kaiflex Solar twin tube DN 20 with 14 mm insulation	SOLAR-VA-14x20/25	4	25	
25	14	Pre-Covered Kaiflex Solar twin tube DN 25 with 14 mm insulation	SOLAR-VA-14x25/10	8	10	
25	14	Pre-Covered Kaiflex Solar twin tube DN 25 with 14 mm insulation	SOLAR-VA-14x25/15	6	15	
25	14	Pre-Covered Kaiflex Solar twin tube DN 25 with 14 mm insulation	SOLAR-VA-14x25/20	4	20	
25	14	Pre-Covered Kaiflex Solar twin tube DN 25 with 14 mm insulation	SOLAR-VA-14x25/25	4	25	
16	19	Pre-Covered Kaiflex Solar twin tube DN 16 with 19 mm insulation	SOLAR-VA-19x16/15	-	15	
16	19	Pre-Covered Kaiflex Solar twin tube DN 16 with 19 mm insulation	SOLAR-VA-19x16/25	-	25	
20	19	Pre-Covered Kaiflex Solar twin tube DN 20 with 19 mm insulation	SOLAR-VA-19x20/15	-	15	
20	19	Pre-Covered Kaiflex Solar twin tube DN 20 with 19 mm insulation	SOLAR-VA-19x20/25	-	25	

- 50 m long coils are available upon request. Note no expansion fittings are included.

## Kaiflex Solar EPDM-CO co-extruded tubes

Colour: black; co-extruded PE-foil covering; Length: 2 m

Copper Pipe Cu			Iron & Steel pipe Fe			13 mm Insulation Thickness			19 mm Insulation Thickness		
NB inch	Nom OD inch	Nom OD mm	NB inch	Nom OD mm	Min ID mm	Reference	m / carton		Reference	m / carton	
1/2	5/8	15			16.0	EPDM-CO-13x015 ◊	120		EPDM-CO-19x015 ◊	72	
		18		17.2	19.0	EPDM-CO-13x018 ◊	106		EPDM-CO-19x018 ◊	60	
3/4	7/8	22	1/2	21.3	23.0	EPDM-CO-13x022 ◊	84		EPDM-CO-19x022 ◊	56	
1	1 1/8	28	3/4	26.9	29.0	EPDM-CO-13x028 ◊	72		EPDM-CO-19x028 ◊	40	

- Delivery time for Kaiflex Solar EPDM 2in2 VA & Kaiflex Solar EPDM-CO products: 10 working days
- Items marked with ◊ delivery quoted on request.

### Kaiflex Solar accessories

Colour: black;

Reference	Description	carton content	
ADH-SOLAR-0220	Solar EPDM adhesive, Content: 0.26 litre (paintbrush tin)	24 cans	
ADH-SOLAR-0660	Solar EPDM adhesive, 0.79 litre	20 cans	
WOVENCOVER-1.2 ◊	Kaiflex Fiberguard, woven covering suitable for tube with Nom ID 16, 20 and 25 Set consists of 2 rolls (each 1.2 m long) and PVC tape	1 set	

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Kaimann GmbH • School House Business Centre • Brideoak Street, Waterhead • Oldham • Greater Manchester • OL4 2HB • Phone +44 (0) 161 627 3289  
Fax +44 (0) 161 880 2551 • Email [info.uk@kaimann.com](mailto:info.uk@kaimann.com) • [www.kaimann.co.uk](http://www.kaimann.co.uk) • © 2012 Kaimann GmbH • All rights reserved.

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