

EUROSOLAR TWIN SPECIAL

Composite systems consisting of two twinned tubes in corrugated stainless steel (AISI 316 L), high performance elastomeric insulation material and a sensor cable. Produced in rolls of considerable lengths on bobbins, allowing for a more practical, fast and reliable installation and a reduction of waste ensuring substantial savings. The insulation covering is available in brick red colour which helps to enhance the aesthetic appearance of systems (black colour on demand). Supplied with the relevant fittings.

APPLICATIONS FIELDS



Industrial



Refrigeration



Building



Solar / High temperature



Heating & Plumbing



Outdoor applications



Air Conditioning



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TYPE OF MATERIAL:	Composite system consisting of two twinned tubes of corrugated stainless steel AISI 316 L, EUROBATEX AT insulation coated with a Red Brick coloured polymeric UV resistant film (Black colour on demand) and sensor cable
PRODUCT RANGE:	Tubes in coils in lengths of 10-15-20-25 m, big coils in lengths of 50-100-150 m in DN 16-20-25. Insulation thickness of 10 mm
FIELDS OF APPLICATION:	Production of heat-transfer fluid distribution systems in solar thermal applications or those that work with high temperature fluids (up to +150 °C in continuous operation). Suitable also for external applications
DIMENSIONAL TOLERANCES:	Steel: In accordance with the European Standard EN 10088-2. Insulation: In accordance with the European Standard EN 14304

TECHNICAL SPECIFICATIONS OF THE CORRUGATED STAINLESS STEEL AISI 316 L TUBE

TYPE (DN)	THICKNESS (mm)	EXTERNAL DIAMETER (mm)
16	0,18	21,6 ± 0,25
20	0,18	26,6 ± 0,25
25	0,20	32,2 ± 0,30

TECHNICAL SPECIFICATIONS OF THE INSULATION

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
OPERATING TEMPERATURE RANGE	-45 °C +150 °C		EN 14707
THERMAL CONDUCTIVITY	At a mean temperature of +40 °C	$\lambda \leq 0,042$ W/mk	EN ISO 8497
FIRE PERFORMANCE	European Standard Euroclass	E _L	EN 13501-1
OZONE RESISTANCE	Excellent		ISO 7326
UV RESISTANCE	Excellent		UNI ISO 4892-2
CORROSION RISK	Meets test requirements		EN 13468

TECHNICAL SPECIFICATIONS OF THE EXTERNAL COVERING

TYPE	LDPE film	
COLOUR	Red brick / Black	
THICKNESS	≈ 350 µm	
ELONGATION AT BREAK (%)	200 MD / 550 TD	ISO 527-3

TECHNICAL SPECIFICATIONS OF THE SENSOR CABLE

TYPE	Silicon rubber (double thread)	
OPERATING TEMPERATURE RANGE	-60 °C +180 °C	
SECTION	1 mm ²	EN ISO 12086
NOMINAL TENSION	Uo/U 300/350 V	

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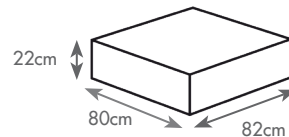
Composite systems consisting of two twinned tubes in corrugated stainless steel AISI 316 L with 10 mm thick insulation covering

Type	Thickness steel tube (mm)	External diameter steel tube (mm)	Coil length (m)	Big coil length (m)
DN 16	0,18	21,6	10, 15, 20, 25	50, 100, 150
DN 20	0,18	26,6	10, 15, 20, 25	50, 100
DN 25	0,20	32,2	15, 20, 25	50, 100

Material not in stock, produced on request and based on minimum purchasing quantities – lead time 15 workdays

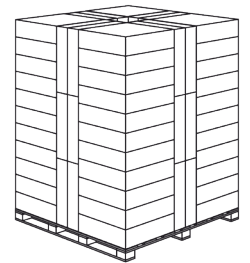
Stainless steel pipe DN 16	
Item No.	m/ct.
10- 22ULTRA 10 M	10
10- 22ULTRA 15 M	15
10- 22ULTRA 20 M	20
10- 22ULTRA 25 M	25
10- 22ULTRA 50 M	50
10- 22ULTRA 100 M	100
10- 22ULTRA 150 M	150

Coil 10-15m
Packaging dimensions:
(volume = 0,14 m³)



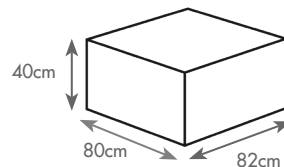
Pallet dimensions:

203 x 209 x 254 cm
Volume = 10,8 m³
Box/pallet = 68



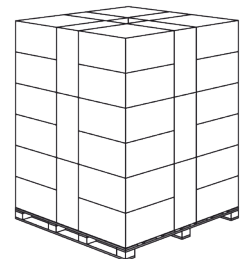
Stainless steel pipe DN 20	
Item No.	m/ct.
10- 28ULTRA 10 M	10
10- 28ULTRA 15 M	15
10- 28ULTRA 20 M	20
10- 28ULTRA 25 M	25
10- 28ULTRA 50 M	50
10- 28ULTRA 100 M	100

Coil 20-25m
Packaging dimensions:
(volume = 0,26 m³)



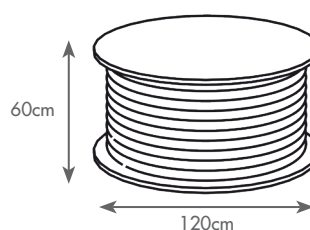
Pallet dimensions:

203 x 209 x 252 cm
Volume = 10,7 m³
Box/pallet = 36



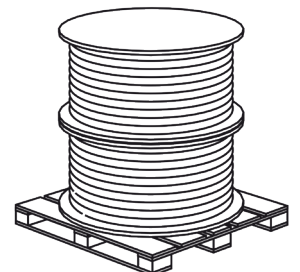
Stainless steel pipe DN 25	
Item No.	m/ct.
10- 35ULTRA 10 M	10
10- 35ULTRA 20 M	20
10- 35ULTRA 25 M	25
10- 35ULTRA 50 M	50
10- 35ULTRA 100 M	100

Big coil
Packaging dimensions:
(volume = 0,86 m³)



Pallet dimensions:

120 x 132 x 120 cm
Volume = 1,9 m³
Bobbins/pallet = 2



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ACCESSORIES

A range of self flare fittings with different types of attachments and shapes to use for connecting the various parts of the system to be installed.

Straight fitting male for corrugated tubes

Item No.	pcs/Kit
RAC DN16X1/2 M	4
RAC DN16 X3/4 M	4
RAC DN16 X 1 M	4
RAC DN20X3/4 M	4
RAC DN20X1 M	4
RAC DN25X1 M	4
RAC DN25X1 1/4 M	4

Straight fitting female for corrugated tubes

Item No.	pcs/Kit
RAC DN16X1/2 F	4
RAC DN16X3/4 F	4
RAC DN16 X 1 F	4
RAC DN20X3/4 F	4
RAC DN20X1 F	4
RAC DN25X1 F	4

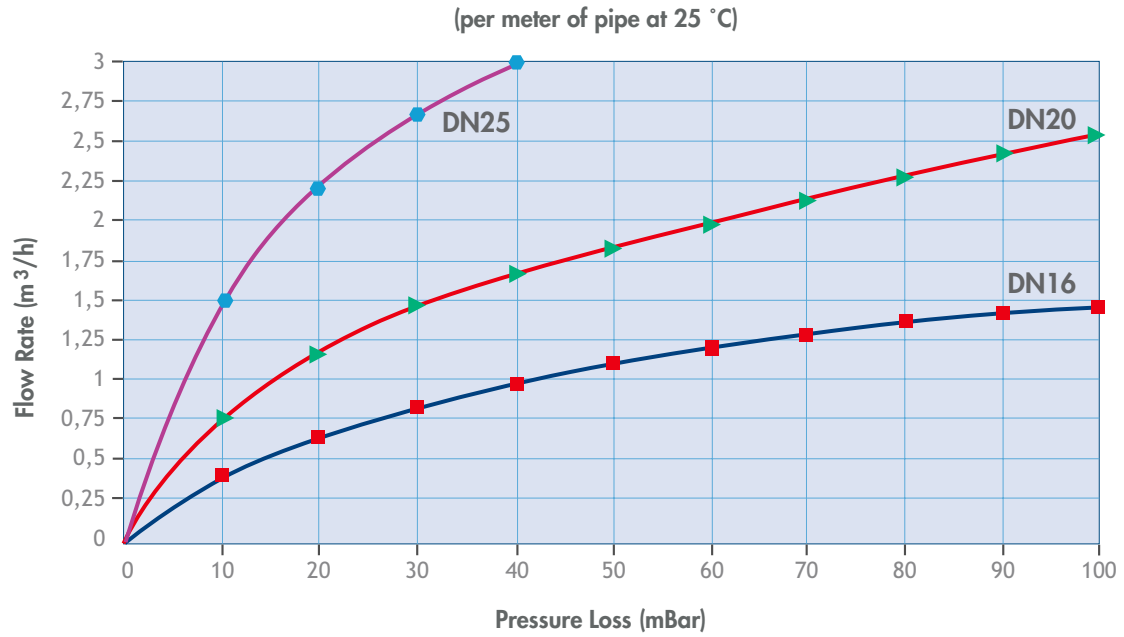
Straight fitting double corrugated pipe/copper pipe

Item No.	pcs/Kit
RAC DN16X15 RAME	4
RAC DN16X22/18	4
RAC DN16XDN16	4
RAC DN20X22/18	4
RAC DN20 X DN20	4
RAC DN25X22/18	4
RAC DN25 X DN25	4

Material not in stock, produced on request – lead time 15 workdays.



TABLE OF PRESSURE LOSSES OF CORRUGATED STAINLESS STEEL AISI 316 L PIPES



THERMAL INSULATION PRODUCTS FOR BUILDING EQUIPMENT AND INDUSTRIAL INSTALLATIONS. FACTORY MADE FLEXIBLE ELASTOMERIC FOAM (FEF) PRODUCTS

Dimensional tolerances specified by the European product Standard EN 14304

Form of delivery	Length	Width	Thickness		Squareness	Inside diameter	
			Declared	Tolerance		$D_i \leq 100$	$D_i > 100$
Tubes	$\pm 1,5\%$	-	$d_o \leq 8$	± 1	3,0 mm	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$	$D_{iD} + 1 \leq D_i \leq D_{iD} + 6$
			$8 < d_o \leq 18$	$\pm 1,5$			
			$18 < d_o \leq 31$	$\pm 2,5$			
			$d_o > 31$	± 3			
Sheets	$\pm 1,5\%$	$\pm 2\%$	$d_o \leq 6$	± 1	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_o \leq 19$	$\pm 1,5$			
			$d_o > 19$	± 2			
Rolls	+ 5% - 1.5%	$\pm 2\%$	$d_o \leq 6$	± 1	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_o \leq 19$	$\pm 1,5$			
			$d_o > 19$	± 2			
Tapes	+ 5% - 1.5%	$\pm 2\%$	$d_o = 3$	- 0.1 + 1,5	-	-	-



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