EVOCELL
evoluzioni tecnologiche nell'elastomero®

IT-FLEX

INSULATION SYSTEMS

CATALOGUE PRICE LIST 2015/1

“The evolution of elastomer technology”

This is our motto that has represented the company’s philosophy for the past 25 years, specializing in R&D, manufacturing and marketing elastomeric products and insulation systems suitable to satisfy all the requirements of thermal and acoustic systems of civil and industrial buildings, focussing on environmental comfort, safety, efficiency and savings in the utilization of traditional energy sources.

EVOCELL S.r.l.

CERTIFICATE OF CONFORMITY UNI ISO 9001:2008

CSI
CERTIFICAZIONE E TESTING

Mod. M015-4

CSI SpA
Sede Legale
20030 Senago - MI - I
Cascina Traversagna 21

Direzione, Uffici e Laboratori
20021 Bollate - MI - I
Viale Lombardia 20
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ACCREDIA

CSI CERT

Certificato n°: *Certificate n.:*	SQ113451	Settore EA: *EA Sector:*	14 - 29

Si certifica che il sistema di gestione per la qualità di / *we hereby certify that the quality management system operated by*

EVOCELL S.r.l.
Sede legale / *Registered office*

Via Manzoni, 43 - 20121 Milano (MI) - Italia

Unità operativa di / *Place of business*

EVOCELL S.r.l.
Via Del Piano, s.n. - 61066 Talacchio Di Vallefoglia (Pu) - Italia

È conforme alla norma: *Is compliance with the standard:* **UNI EN ISO 9001:2008**

Per i seguenti servizi / processi / prodotti – *Concerning the following services / processes / products*

Produzione di tubi in materiale espanso e commercializzazione di accessori complementari prodotti da terzi.

Il presente certificato è soggetto al rispetto del regolamento di CSICERT per la certificazione dei sistemi di gestione per la qualità delle organizzazioni.
Riferirsi al manuale qualità per i dettagli delle eventuali esclusioni dei requisiti della UNI EN ISO 9001:2008
Per informazioni puntuali e aggiornate circa eventuali variazioni intervenute nello stato di validità della certificazione di cui al presente certificato, si prega di contattare CSI S.p.A.

This certificate is subject to the compliance with CSICERT regulation for the organization of quality management systems certification.
Refer to the quality manual for details on UNI EN ISO 9001:2008 requirements exclusions.
For updated information related to validity status of the certification within this certificate, please take in contact CSI spa.

21/11/2011	23/11/2014	----------	20/11/2017
Rilascio *Issued*	Rinnovo *Renewal*	Aggiornamento *Update*	Scadenza *Expiry*

GRUPPO IMQ

CSI *Ing. R. Gatti*
Amm. Delegato/Managing Director

Motivo: Certificazione documento
Luogo: Viale Lombardia, 20 - 20021 Bollate
Data: 2014.11.24 17:15:44 +01'00'

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IT-FLEX
INSULATION SYSTEMS

FIELDS OF APPLICATION

INDUSTRIAL APPLICATIONS

HVAC APPLICATIONS

SOLAR HIGH TEMPERATURE APPLICATIONS

REFRIGERATION APPLICATIONS

AIR DISTRIBUTION APPLICATIONS

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THERMAL INSULATION

SYSTEMS

CHART OF PRODUCT APPLICATIONS

APPLICATIONS	PRODUCTS
INDUSTRIAL APPLICATIONS 	IT-FLEX C1, C1R, Coil, IT-FLEX System Cover, IT-FLEX PE-AL, IT-FLEX Triplex, IT-FLEX HI TECH, IT-FLEX UV Protection, IT-FLEX AT, ATR, AT Coil, DUCT, EVOTEC
HVAC APPLICATIONS 	IT-FLEX C1, C1R, Coil, IT-FLEX System Cover, IT-FLEX PE AL, IT-FLEX Triplex, IT-FLEX HI TECH, IT-FLEX UV Protection, DUCT, EVOTEC
SOLAR HIGH TEMPERATURE APPLICATIONS 	IT-FLEX AT, ATR, AT Coil, ULTRASOLAR 2
REFRIGERATIONS APPLICATIONS 	IT-FLEX C1, C1R, Coil, IT-FLEX System Cover, IT-FLEX Triplex, IT-FLEX HI TECH, IT-FLEX UV Protection, IT-FLEX AT, EVOTEC
AIR DISTRIBUTION APPLICATIONS 	IT-FLEX C1, IT-FLEX System Cover, IT-FLEX PE-AL, IT-FLEX Triplex, IT-FLEX HI TECH, IT-FLEX UV Protection, IT-FLEX AT, ATR, AT Coil, DUCT, EVOTEC
SHIPYARD APPLICATIONS 	IT-FLEX C1, IT-FLEX AT, IT-FLEX HF HALOGEN FREE
RAILWAY APPLICATIONS 	IT-FLEX C1, IT-FLEX AT, IT-FLEX HF HALOGEN FREE
OIL AND GAS & PETROCHEMICAL APPLICATIONS 	IT-FLEX C1, C1R, Coil, IT-FLEX System Cover IT-FLEX PE AL, IT-FLEX Triplex IT-FLEX HI TECH, IT-FLEX UV Protection IT-FLEX HF HALOGEN FREE

IT-FLEX C1

- ★ Closed-cell microcellular structure
- ★ Excellent insulation performance
- ★ High water vapour diffusion resistance
- ★ Ensures safety in the event of fire
- ★ λ at 0 °C ≤ 0,036 W/m•K
- ★ $\mu \geq 7000$
- ★ Euroclass B_L, s2, d0 Tubes - B, s3, d0 Sheets

IT-FLEX C1 - C1R - Coil

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF).
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Self-adhesive and standard tubes in bars, and in continuous rolls with diameters from 6 to 170 mm and thickness from 6 to 60 mm. Sheets in panels and rolls, standard and self-adhesive, with thicknesses from 6 to 60 mm. Tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications, also for exterior use (C1R version).
MAIN CHARACTERISTICS	Flexible and expanded CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURES max. min.	 + 110 °C (85 °C for sheets glued to the entire surface) - 40 °C	 UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of +40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
RESISTANCE TO THE VAPOUR WATER DIFFUSION μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS { TUBES BL, s2, d0 SHEETS B, s3, d0 TAPE B, s2, d0	EN 13501 - 1
LOW FLAME SPREAD	MEETS TEST REQUIREMENTS	Directive 96/98/EC - Module D - Module B
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING (IT-FLEX C1 R):

TYPE	SCRATCH RESISTANT/UV RESISTANT PE FILM	
COLOUR	WHITE RAL 9010	
WATER VAPOUR DIFFUSION FACTOR μ	≥ 15,000	EN ISO 12086
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	EXCELLENT	UNI ISO 4892 - 2

*** NOTE: for lower temperature applications please contact our technical dept.**

Documents and certifications are available upon registration on our website: www.evocell.it

Evocell srl. reserves the right to modify data contained in this document without any obligation of notice.

All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX C1 - INSULATION TUBES - LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **D 6** mm			Thickness **F 9** mm			Thickness **H 13** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”					**EVD006**	496	**2,085**	**EVF006**	352	**2,725**	**EVH006**	220	**3,484**
7,93	8	5/16”					**EVD008**	432	**2,132**	**EVF008**	300	**2,780**	**EVH008**	210	**3,739**
9,52	10	3/8”	10,10	1/8”	6		**EVD010**	364	**2,193**	**EVF010**	266	**2,936**	**EVH010**	172	**4,003**
12,70	12	1/2”					**EVD012**	316	**2,445**	**EVF012**	234	**3,079**	**EVH012**	162	**4,336**
	14		13,60	1/4”	8										
							EVD015	266	**2,648**	**EVF015**	192	**3,475**	**EVH015**	136	**4,769**
15,87	16	5/8”				16									
	18		17,20	3/8”	10		**EVD018**	220	**2,864**	**EVF018**	166	**3,730**	**EVH018**	118	**5,045**
19,05		3/4”				20	**EVD020**	180	**2,936**	**EVF020**	136	**3,736**	**EVH020**	98	**5,093**
22,22	22	7/8”	21,30	1/2”	15		**EVD022**	180	**3,199**	**EVF022**	136	**3,743**	**EVH022**	98	**5,129**
25,40		1”				25	**EVD025**	152	**3,715**	**EVF025**	108	**4,817**	**EVH025**	80	**6,004**
			26,90	3/4”	20										
28,57	28	1-1/8”					**EVD028**	130	**3,931**	**EVF028**	98	**5,129**	**EVH028**	78	**6,708**
							EVD030	112	**4,194**	**EVF030**	92	**5,260**	**EVH030**	72	**6,855**
						32				**EVF032**	76	**5,501**	**EVH032**	58	**7,213**
34,92	35	1-3/8”	33,70	1”	25		**EVD035**	100	**4,961**	**EVF035**	76	**5,752**	**EVH035**	58	**7,549**
										EVF038	66	**6,482**	**EVH038**	50	**8,736**
						40							**EVH040**	48	**8,796**
41,27	42	1-5/8”	42,40	1-1/4”	32		**EVD042**	90	**5,704**	**EVF042**	60	**6,507**	**EVH042**	48	**8,808**
										EVF045	56	**7,226**	**EVH045**	44	**9,623**
			48,30	1-1/2”	40					**EVF048**	50	**7,275**	**EVH048**	40	**9,862**
						50							**EVH050**	34	**10,786**
53,97	54	2”								**EVF054**	46	**9,395**	**EVH054**	34	**12,475**
										EVF057	46	**9,744**	**EVH057**	32	**13,182**
			60,30	2”	50					**EVF060**	46	**9,862**	**EVH060**	32	**13,327**
	64					63				**EVF064**	46	**11,348**	**EVH064**	30	**15,328**
	70									**EVF070**	40	**12,799**	**EVH070**	26	**16,070**
	76,10		76,10	2-1/2”	65	75				**EVF076**	40	**13,182**	**EVH076**	26	**16,574**
	80									**EVF080**	36	**16,070**	**EVH080**	24	**19,007**
	88,90		88,90	3”	80	90				**EVF089**	36	**16,490**	**EVH089**	24	**20,792**
			101,3/104,3	3-1/2”						**EVF102**	22	**24,831**	**EVH102**	16	**29,961**
	108	4-1/4”								**EVF108**	22	**25,599**	**EVH108**	16	**31,399**
	114	4-1/2”	114,30	4”	100	110				**EVF114**	22	**26,677**	**EVH114**	16	**33,004**
						125							**EVH125**	12	**48,921**
	133												**EVH133**	12	**55,685**
			139,70	5”	125	140				**EVF140**	16	**42,161**	**EVH140**	12	**58,032**
	159	6-1/4”	159			160							**EVH160**	12	**58,180**

IT-FLEX C1 - INSULATION TUBES - LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **M 19** mm			Thickness **P 25** mm			Thickness **T 32** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”													
7,93	8	5/16”													
9,52	10	3/8”	10,10	1/8”	6		**EVM010**	98	**7,621**						
12,70	12	1/2”					**EVM012**	88	**7,857**						
	14		13,60	1/4”	8										
							EVM015	78	**9,359**						
15,87	16	5/8”				16									
	18		17,20	3/8”	10		**EVM018**	72	**11,019**	**EVP018**	50	**21,895**	**EVT018**	32	**32,705**
19,05		3/4”				20	**EVM020**	66	**11,038**						
22,22	22	7/8”	21,30	1/2”	15		**EVM022**	64	**11,361**	**EVP022**	42	**24,604**	**EVT022**	32	**38,014**
25,40		1”				25	**EVM025**	50	**12,572**						
			26,90	3/4”	20										
28,57	28	1-1/8”					**EVM028**	48	**13,491**	**EVP028**	40	**28,127**	**EVT028**	24	**42,353**
							EVM030	42	**14,705**						
						32	**EVM032**	36	**15,544**						
34,92	35	1-3/8”	33,70	1”	25		**EVM035**	36	**16,466**	**EVP035**	24	**34,444**	**EVT035**	22	**47,565**
							EVM038	32	**18,612**						
						40	**EVM040**	32	**19,295**						
41,27	42	1-5/8”	42,40	1-1/4”	32		**EVM042**	32	**19,954**	**EVP042**	22	**47,097**	**EVT042**	16	**55,536**
							EVM045	28	**21,584**						
			48,30	1-1/2”	40		**EVM048**	24	**22,267**	**EVP048**	18	**51,064**	**EVT048**	14	**61,457**
						50	**EVM050**	24	**23,238**						
53,97	54	2”					**EVM054**	24	**25,203**	**EVP054**	16	**63,913**	**EVT054**	12	**70,756**
							EVM057	22	**26,677**						
			60,30	2”	50		**EVM060**	22	**27,228**	**EVP060**	12	**75,712**	**EVT060**	10	**82,910**
	64					63	**EVM064**	18	**29,961**	**EVP064**	12	**79,629**	**EVT064**	10	**86,187**
	70						**EVM070**	18	**33,221**	**EVP070**	12	**84,756**	**EVT070**	8	**88,661**
	76,10		76,10	2-1/2”	65	75	**EVM076**	18	**34,707**	**EVP076**	10	**91,366**	**EVT076**	8	**97,812**
	80						**EVM080**	14	**37,571**				**EVT080**	8	**100,133**
	88,90		88,90	3”	80	90	**EVM089**	14	**37,967**	**EVP089**	8	**96,346**	**EVT089**	8	**106,279**
			101,3/104,3	3-1/2”			**EVM102**	14	**51,856**	**EVP102**	8	**110,200**	**EVT102**	6	**129,816**
	108	4-1/4”					**EVM108**	12	**54,757**	**EVP108**	6	**114,396**	**EVT108**	6	**140,209**
	114	4-1/2”	114,30	4”	100	110	**EVM114**	12	**56,195**	**EVP114**	6	**119,104**	**EVT114**	6	**152,395**
						125	**EVM125**	10	**74,820**						
	133						**EVM133**	8	**83,829**	**EVP133**	4	**145,020**	**EVT133**	4	**176,778**
			139,70	5”	125	140	**EVM140**	8	**85,028**	**EVP140**	4	**152,550**	**EVT140**	4	**192,052**
	159	6-1/4”	159			160	**EVM160**	8	**92,219**	**EVP160**	4	**176,065**	**EVT160**	4	**212,762**
			168,30	6”	150		**EVM170**	6	**106,884**	**EVP170**	4	**201,807**	**EVT170**	4	**255,319**

Packaging dimensions: 209 x 40 x 33 cm.
Packaging volume = 0,27 m^3

IT-FLEX C1 - INSULATION TUBES - LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES									
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Thickness x ø mm	m/box	Price €/m	Thickness x ø mm	m/box	Price €/m	Thickness x ø mm	m/box	Price €/m
6,35	6	1/4”													
7,93	8	5/16”													
9,52	10	3/8”	10,10	1/8”	6					**9 x 10**	266	**2,936**	**6 x 10**	364	**2,193**
12,70	12	1/2”								**9 x 12**	234	**3,079**	**6 x 12**	316	**2,445**
	14		13,60	1/4”	8										
							19 x 15	78	**9,359**	**9 x 15**	192	**3,475**	**6 x 15**	266	**2,648**
15,87	16	5/8”				16									
	18		17,20	3/8”	10		**19 x 18**	72	**11,019**	**9 x 18**	166	**3,730**	**6 x 18**	220	**2,864**
19,05		3/4”				20									
22,22	22	7/8”	21,30	1/2”	15		**32 x 22**	32	**38,014**	**15 x 22**	98	**6,155**	**9 x 22**	136	**3,743**
25,40		1”				25									
			26,90	3/4”	20										
28,57	28	1-1/8”					**32 x 28**	24	**42,353**	**15 x 28**	78	**8,050**	**9 x 28**	98	**5,129**
						32									
34,92	35	1-3/8”	33,70	1”	25		**32 x 35**	22	**47,565**	**15 x 35**	58	**9,059**	**9 x 35**	76	**5,752**
						40									
41,27	42	1-5/8”	42,40	1-1/4”	32		**40 x 42**	16	**101,324**	**19 x 42**	32	**19,954**	**13 x 42**	48	**8,808**
			48,30	1-1/2”	40		**40 x 48**	12	**111,616**	**19 x 48**	24	**22,267**	**13 x 48**	40	**9,862**
						50									
53,97	54	2”					**40 x 54**	10	**121,760**	**19 x 54**	24	**25,203**	**13 x 54**	34	**12,475**
							40 x 57	10	**129,358**	**19 x 57**	22	**26,677**	**13 x 57**	32	**13,182**
			60,30	2”	50		**50 x 60**	8	**202,872**	**25 x 60**	12	**75,712**	**15 x 60**	32	**15,992**
	64					63									
	70														
	76,10		76,10	2-1/2”	65	75	**50 x 76**	6	**246,016**	**25 x 76**	10	**91,366**	**15 x 76**	26	**19,889**
	80														
	88,90		88,90	3”	80	90	**55 x 89**	4	**282,823**	**32 x 89**	8	**106,279**	**19 x 89**	14	**37,967**
			101,3/104,3	3-1/2”											
	108	4-1/4”													
	114	4-1/2”	114,30	4”	100	110	**60 x 114**	2	**327,140**	**32 x 114**	6	**152,395**	**19 x 114**	12	**56,195**

Packaging dimensions: 209 x 40 x 33 cm.
Packaging volume = 0,27 m^3

IT-FLEX C1 - COIL
CONTINUOUS TUBES IN ROLLS

Diameter mm	Thickness (D) 6 mm Code	m/box	Price €/box	Thickness (F) 9 mm Code	m/box	Price €/box	Thickness (H) 13 mm Code	m/box	Price €/box
6	**EV7D06C0IL**	50	**42,761**	**EV7F06C0IL**	40	**45,429**			
8	**EV7D08C0IL**	48	**42,761**	**EV7F08C0IL**	37	**45,429**	**EV7H08C0IL**	24	**48,107**
10	**EV7D10C0IL**	46	**42,761**	**EV7F10C0IL**	34	**45,429**	**EV7H10C0IL**	18	**48,107**
12	**EV7D12C0IL**	40	**42,761**	**EV7F12C0IL**	31	**45,429**	**EV7H12C0IL**	18	**48,107**
16	**EV7D16C0IL**	38	**42,761**	**EV7F16C0IL**	27	**45,429**	**EV7H16C0IL**	17	**48,107**
18	**EV7D18C0IL**	30	**42,761**	**EV7F18C0IL**	23	**45,429**	**EV7H18C0IL**	15	**48,107**
22	**EV7D22C0IL**	23	**42,761**	**EV7F22C0IL**	19	**45,429**	**EV7H22C0IL**	14	**48,107**
28	**EV7D28C0IL**	20	**42,761**	**EV7F28C0IL**	14	**45,429**	**EV7H28C0IL**	10	**48,107**
35							**EV7H35C0IL**	8	**48,107**

Packaging dimensions: 50 x 50 x 20 cm.
Packaging volume = 0,05 m^3

IT-FLEX C1 - * SHEETS IN ROLLS: H 1 m
SHEETS PANELS: 1 x 2 m

Code	Thickness (mm)	Roll (m^2/box)	1 x 2 m panels (m^2/box)	Sheets
				Price €/m^2
EVBL06	6	30	48	**46,972**
EVBL10	10	20	32	**64,977**
EVBL13	13	14	24	**79,579**
EVBL16	16	12	20	**95,741**
EVBL19	19	10	16	**112,791**
EVBL25	25	8	12	**146,622**
EVBL32	32	6	8	**184,317**
EVBL40	40	4	8	**229,368**
EVBL50	50	4	6	**286,763**
EVBL60	60	3	4	**343,204**

For self-adhesive sheets in rolls, 3,00 euros/m should be added onto the discounted net price.

* For sheets of 1,5 m in height, please contact our sales dept.

For sheet panels, there is an increase of 15% on 6/10/13/16 mm thickesses, 7% on the 19 mm thickness, and 6% on the 25/32/40/50/60 mm thicknesses.

Packaging dimensions: 108 x 54 x 54 cm.
Packaging volume = 0,31 m^3

IT-FLEX C1 R - INSULATION TUBES: LENGTH 2 m WITH EXTERNAL SCRATCH RESISTANT/UV RESISTANT WHITE PE COATING

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **F 9** mm			Thickness **H 13** mm			Thickness **M 19** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	**Price €/m**	Code	m/box	**Price €/m**	Code	m/box	**Price €/m**
6,35	6	1/4"													
7,93	8	5/16"													
9,52	10	3/8"	10,10	1/8"	6										
12,70	12	1/2"					**EV9F12R**	170	**1,171**	**EV9H12R**	120	**1,778**	**EV9M12R**	70	**2,833**
	14		13,60	1/4"	8										
15,87	16	5/8"				16	**EV9F16R**	140	**1,410**	**EV9H16R**	100	**2,042**	**EV9M16R**	50	**3,380**
	18		17,20	3/8"	10		**EV9F18R**	130	**1,517**	**EV9H18R**	90	**2,194**	**EV9M18R**	50	**3,974**
19,05		3/4"				20									
22,22	22	7/8"	21,30	1/2"	15		**EV9F22R**	100	**1,558**	**EV9H22R**	70	**2,427**	**EV9M22R**	44	**4,137**
25,40		1"				25									
			26,90	3/4"	20										
28,57	28	1-1/8"					**EV9F28R**	80	**2,100**	**EV9H28R**	60	**2,782**	**EV9M28R**	40	**4,886**
						32									
34,92	35	1-3/8"	33,70	1"	25		**EV9F35R**	60	**2,182**	**EV9H35R**	44	**3,123**	**EV9M35R**	30	**5,413**
						40									
41,27	42	1-5/8"	42,40	1-1/4"	32					**EV9H42R**	36	**3,664**	**EV9M42R**	24	**6,990**
	48		48,30	1-1/2"	40								**EV9M48R**	22	**7,858**

Different sizes available on request.

Packaging dimensions: 209 x 40 x 33 cm.
Packaging volume = 0,27 m³

IT-FLEX C1 R - WHITE PVC JOINT-SEALING TAPE

Code	m/roll	Roll width (mm)	pieces/box	**Price €/roll**
EV8NASTRNCB25	25	38	60	**7,850**




DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX C1

IT-FLEX AT

- ★ Closed-cell microcellular structure
- ★ Excellent insulation performance
- ★ High temperature resistance
- ★ Excellent UV resistance
- ★ λ at 40 °C = 0,042 W/m•K
- ★ Service temperature: +150 °C

IT-FLEX AT - ATR - AT Coil

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF).
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Self-adhesive and standard tubes in bars, and in continuous rolls with diameters from 10 to 114 mm, and thickness from 9 to 32 mm. Self-adhesive and standard sheets in panels and rolls, with thicknesses from 6 to 32 mm.
PRODUCT APPLICATION	Thermal insulation of heating, air conditioning systems and industrial applications functioning with high temperatures fluids. Also suitable for external applications (ATR version).
MAIN CHARACTERISTICS	Flexible and expanded CFC, HCFC and PVC-free rubber foam. Does not contain or release dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURES Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 150 °C (+ 130 °C for sheets glued to the entire surface) - 40 °C	 UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of +40 °C ≤ 0,042 W/m•K	EN ISO 8497 - EN 12667
REACTION TO FIRE	EUROCLASS { SHEETS AND TAPES - E TUBES - E_L	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
COMPRESSION SET	≥ 60%	UNI 4913
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING (VERSIONE IT-FLEX AT R):

TYPE	SCRATCH RESISTANT - UV RESISTANT PE FILM	
COLOUR	BLACK RAL 9005	
WATER VAPOUR DIFFUSION FACTOR μ	≥ 15,000	EN ISO 12086
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	EXCELLENT	UNI ISO 4892 - 2

*** NOTE: for lower temperature applications please contact our technical dept.**

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All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX AT - INSULATION TUBES - LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **F 9** mm			Thickness **H 13** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4"										
7,93	8	5/16"										
9,52	10	3/8"	10,10	1/8"	6							
12,70	12	1/2"										
	14		13,60	1/4"	8							
15,87	16	5/8"				16	**EV5AT09X015**	140	**3,007**	**EV5AT13X015**	100	**3,872**
	18		17,20	3/8"	10		**EV5AT09X018**	130	**3,071**	**EV5AT13X018**	90	**3,954**
19,05		3/4"				20						
22,22	22	7/8"	21,30	1/2"	15		**EV5AT09X022**	100	**3,120**	**EV5AT13X022**	70	**4,166**
25,40		1"				25						
			26,90	3/4"	20							
28,57	28	1-1/8"					**EV5AT09X028**	80	**3,856**	**EV5AT13X028**	60	**4,886**
						32						
34,92	35	1-3/8"	33,70	1"	25		**EV5AT09X035**	60	**4,412**	**EV5AT13X035**	44	**5,884**
						40						
41,27	42	1-5/8"	42,40	1-1/4"	32		**EV5AT09X042**	50	**5,441**	**EV5AT13X042**	36	**6,944**
			48,30	1-1/2"	40		**EV5AT09X048**	36	**6,094**	**EV5AT13X048**	30	**7,714**
						50						
53,97	54	2"					**EV5AT09X054**	36	**6,944**	**EV5AT13X054**	26	**9,283**
			60,30	2"	50		**EV5AT09X060**	32	**8,071**	**EV5AT13X060**	24	**10,818**
	64					63	**EV5AT09X064**	32	**9,110**	**EV5AT13X064**	22	**13,233**
							EV5AT09X067	32	**9,942**	**EV5AT13X067**	22	**14,370**
	70						**EV5AT09X070**	30	**11,361**	**EV5AT13X070**	20	**14,647**
	76,10		76,10	2-1/2"	65	75	**EV5AT09X076**	28	**12,781**	**EV5AT13X076**	16	**15,248**
	80											
	88,90		88,90	3"	80	90	**EV5AT09X089**	22	**14,259**	**EV5AT13X089**	16	**18,746**
		4-1/4"	101,3/104,3	3-1/2"								
	108	4-1/2"										
	114		114,30	4"	100	110	**EV5AT09X114**	18	**17,894**			

IT-FLEX AT - INSULATION TUBES - LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **M 19** mm			Thickness **P 25** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16	**EV5AT19X015**	60	**7,630**			
	18		17,20	3/8”	10		**EV5AT19X018**	60	**7,779**	**EV5AT25X018**	30	**15,134**
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		**EV5AT19X022**	44	**9,037**	**EV5AT25X022**	26	**17,188**
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					**EV5AT19X028**	40	**10,099**	**EV5AT25X028**	20	**20,592**
						32						
34,92	35	1-3/8”	33,70	1”	25		**EV5AT19X035**	30	**11,914**	**EV5AT25X035**	16	**23,782**
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV5AT19X042**	24	**15,230**	**EV5AT25X042**	16	**26,820**
			48,30	1-1/2”	40		**EV5AT19X048**	22	**17,079**	**EV5AT25X048**	12	**33,150**
						50						
53,97	54	2”					**EV5AT19X054**	18	**20,453**	**EV5AT25X054**	12	**37,020**
			60,30	2”	50		**EV5AT19X060**	18	**21,626**	**EV5AT25X060**	10	**41,043**
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	**EV5AT19X076**	14	**26,634**	**EV5AT25X076**	8	**50,533**
	80											
	88,90		88,90	3”	80	90	**EV5AT19X089**	12	**29,511**	**EV5AT25X089**	8	**55,985**

* For other dimensions and thicknesses please consult our sales dept.

Packaging dimensions: 209 x 40 x 33 cm.
Packaging volume = 0,27 m^3

IT-FLEX AT COIL - INSULATION TUBES IN CONTINUOUS ROLLS

Diameter mm	Thickness **13 mm** Code	m/box	**Price €/box**	Thickness **19 mm** Code	m/box	**Price €/box**
15	**EV5ATCOIL1315**	30	**131,227**	**EV5ATCOIL1915**	25	**215,907**
18	**EV5ATCOIL1318**	30	**134,035**	**EV5ATCOIL1918**	25	**219,971**
22	**EV5ATCOIL1322**	30	**141,232**	**EV5ATCOIL1922**	25	**255,616**
28	**EV5ATCOIL1328**	25	**138,018**	**EV5ATCOIL1928**	20	**228,706**

Packaging dimensions: 50 x 60 x 60 cm.
Packaging volume = 0,18 m^3

IT-FLEX AT - SHEETS IN ROLLS H 1 m

Code	Thickness (mm)	m^2/rolls	**Price €/m^2**
EVBL06AT	6	30	**22,058**
EVBL10AT	10	20	**28,683**
EVBL13AT	13	14	**40,976**
EVBL19AT	19	10	**58,711**
EVBL25AT	25	8	**80,728**

The SYSTEM COVER finishing is also available for sheets and tubes.

* For SELF-ADHESIVE SHEETS please consult our technical dept.

Packaging dimensions: 108 x 54 x 54 cm.
Packaging volume = 0,31 m^3

IT-FLEX AT R - INSULATION TUBES - LENGTH 2 m
WITH EXTERNAL SCRATCH RESISTANT/UV RESISTANT BLACK PE COATING

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **H 13** mm			Thickness **M 19** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	**Price €/m**	Code	m/box	**Price €/m**
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16	**EV5ATR13X15**	100	**9,118**	**EV5ATR19X15**	60	**14,715**
	18		17,20	3/8”	10		**EV5ATR13X18**	90	**9,414**	**EV5ATR19X18**	60	**15,098**
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15							
							EV5ATR13X24	70	**9,933**	**EV5ATR19X24**	44	**16,963**
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”										
							EV5ATR13X29	60	**11,242**	**EV5ATR19X29**	40	**18,730**
						32	**EV5ATR13X33**	44	**12,973**	**EV5ATR19X33**	30	**21,522**
35			33,70	1”			**EV5ATR13X35**	44	**13,620**	**EV5ATR19X35**	30	**22,598**

IT-FLEX AT R COIL - INSULATION TUBES IN CONTINUOUS ROLLS
WITH EXTERNAL SCRATCH RESISTANT/UV RESISTANT BLACK PE COATING

Diameter mm	Thickness **13 mm** Code	m/box	**Price €/m²**	Thickness **19 mm** Code	m/box	**Price €/m²**
15	**EV5ATR13X1530**	30	**9,118**	**EV5ATR19X1530**	30	**14,715**
18	**EV5ATR13X1830**	30	**9,414**	**EV5ATR19X1830**	30	**15,098**
22	**EV5ATR13X2430**	30	**9,933**	**EV5ATR19X2430**	30	**16,963**
28	**EV5ATR13X2930**	30	**11,242**	**EV5ATR19X2930**	30	**18,730**
35	**EV5ATR13X3330**	30	**12,973**	**EV5ATR19X3330**	30	**21,522**

Packaging dimensions **Thk. 13 mm** = 80 x 80 x 30 cm - Packaging volume = 0.19 m^3

Packaging dimensions **Thk. 19 mm** = 80 x 80 x 50 cm - Packaging volume = 0.32 m^3

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX AT

IT-FLEX HF HALOGEN FREE

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ Halogen free (chlorine, bromine, fluorine) and PVC free
- ★ Low emission and low smoke toxicity in the event of fire
- ★ IMO certified. MED Directive 96/98/CE
- ★ λ at 0 °C ≤ 0,036 W/m•K - λ at 40 °C ≤ 0,040 W/m•K
- ★ $\mu \geq 2000$

IT-FLEX HF “HALOGEN FREE”

Technical data sheet

Rev. 01/15

MATERIAL	Black closed-cell flexible elastomeric foam (FEF).
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Self-adhesive and standard tubes in bars, with diameters from 10 to 114 mm and in thicknesses from 9 to 32 mm. Sheets in rolls in thicknesses from 6 to 32 mm. Tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of refrigeration, heating and air-conditioning services in commercial, industrial and domestic applications. Especially suitable for naval, rail and civil applications where low emission and low smoke toxicity material is required in the event of fire.
MAIN CHARACTERISTICS	Flexible and expanded CFC, HCFC and PVC-free rubber foam. It is dust and fibre free and does not contain halogens.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 110 °C (85 °C for sheets glued to the entire surface) - 45 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 2000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS { Tubes thk. 6-25 mm - D_L, s2, d0 Tubes up to a thk. of 32 mm - E Sheets and tapes - E	EN - 13501 - 1
RAILWAYS	HL 1	EN - TS 45545
SHIPYARDS (MED)	Meets requirements	IMO RES. A 653 (16) - IMO MSC/Circ 1004 DIR. MED 96/98 Modules B and D
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
ANTIMICROBIAL BEHAVIOUR	Meets requirements	AATTCC test method 30
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

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IT-FLEX HF “HALOGEN FREE” - INSULATION TUBES: LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **F 9** mm			Thickness **H 13** mm			Thickness **M 19** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”													
7,93	8	5/16”													
9,52	10	3/8”	10,10	1/8”	6		**EV10HF09x10**	266	**5,567**	**EV10HF13x10**	172	**7,434**			
12,70	12	1/2”					**EV10HF09x12**	234	**5,848**	**EV10HF13x12**	162	**8,117**			
	14		13,60	1/4”	8										
							EV10HF09x15	192	**6,888**	**EV10HF13x15**	136	**8,904**	**EV10HF19x15**	78	**15,429**
15,87	16	5/8”				16									
	18		17,20	3/8”	10		**EV10HF09x18**	166	**7,200**	**EV10HF13x18**	118	**9,287**	**EV10HF19x18**	72	**18,524**
19,05		3/4”				20									
22,22	22	7/8”	21,30	1/2”	15		**EV10HF09x22**	136	**7,387**	**EV10HF13x22**	98	**9,765**	**EV10HF19x22**	64	**19,246**
25,40		1”				25									
			26,90	3/4”	20										
28,57	28	1-1/8”					**EV10HF09x28**	98	**9,147**	**EV10HF13x28**	78	**11,450**	**EV10HF19x28**	48	**22,381**
						32									
34,92	35	1-3/8”	33,70	1”	25		**EV10HF09x35**	78	**10,317**	**EV10HF13x35**	58	**13,837**	**EV10HF19x35**	36	**24,992**
						40									
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV10HF09x42**	60	**12,761**	**EV10HF13x42**	48	**16,325**	**EV10HF19x42**	32	**28,813**
			48,30	1-1/2”	40		**EV10HF09x48**	50	**14,287**	**EV10HF13x48**	40	**18,119**	**EV10HF19x48**	24	**36,870**
						50									
53,97	54	2”					**EV10HF09x54**	46	**16,272**	**EV10HF13x54**	34	**21,829**	**EV10HF19x54**	24	**41,348**
			60,30	2”	50		**EV10HF09x60**	46	**18,893**	**EV10HF13x60**	32	**25,455**	**EV10HF19x60**	22	**50,884**
	64					63									
	70														
	76,10		76,10	2-1/2”	65	75				**EV10HF13x76**	26	**31,166**	**EV10HF19x76**	18	**56,891**
	80														
	88,90		88,90	3”	80	90				**EV10HF13x89**	24	**37,813**	**EV10HF19x89**	14	**64,725**
			101,3/104,3	3-1/2”											
	108	4-1/4”													
	114	4-1/2”	114,30	4”	100	110							**EV10HF19x114**	12	**68,469**
						125									
	133														
			139,70	5”	125	140									
	159	6-1/4”	159			160									

IT-FLEX HF “HALOGEN FREE” - INSULATION TUBES: LENGTH 2 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **P 25** mm			Thickness **T 32** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	**Price €/m**	Code	m/box	**Price €/m**
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16						
	18		17,20	3/8”	10							
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		**EV10HF25x22**	42	**39,205**	**EV10HF32x22**	32	**48,829**
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					**EV10HF25x28**	40	**41,251**	**EV10HF32x28**	24	**52,997**
						32						
34,92	35	1-3/8”	33,70	1”	25		**EV10HF25x35**	24	**46,161**	**EV10HF32x35**	22	**58,389**
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV10HF25x42**	22	**57,515**	**EV10HF32x42**	16	**72,293**
			48,30	1-1/2”	40		**EV10HF25x48**	18	**63,875**	**EV10HF32x48**	14	**80,737**
						50						
53,97	54	2”					**EV10HF25x54**	16	**73,233**	**EV10HF32x54**	12	**92,983**
			60,30	2”	50		**EV10HF25x60**	12	**76,701**	**EV10HF32x60**	10	**100,087**
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	**EV10HF25x76**	10	**106,343**	**EV10HF32x76**	8	**121,144**
	80											
	88,90		88,90	3”	80	90	**EV10HF25x89**	8	**129,873**	**EV10HF32x89**	8	**135,576**
			101,3/104,3	3-1/2”								
	108	4-1/4”										
	114	4-1/2”	114,30	4”	100	110	**EV10HF25x114**	6	**162,636**	**EV10HF32x114**	6	**194,477**
						125						
	133											
			139,70	5”	125	140						
	159	6-1/4”	159			160						

IT-FLEX HF “HALOGEN FREE” - SHEETS IN ROLLS: H 1 m

SHEETS

Code	Thickness (mm)	Roll (m^2/box)	Price €/m^2
EV10HFBL06	6	30	**56,120**
EV10HFBL10	10	20	**81,800**
EV10HFBL13	13	14	**99,980**
EV10HFBL19	19	10	**142,040**
EV10HFBL25	25	8	**185,120**
EV10HFBL32	32	6	**218,324**

The SYSTEM COVER covering is available for sheets and tubes.

Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m^3

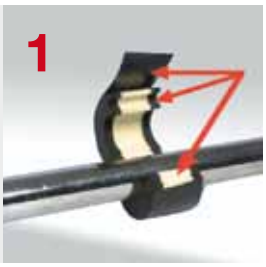
DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

Mounting instructions:
1 - Mount the support onto the piping and glue the surfaces with the AB 850 adhesive (⟶)

2 - Close and seal the support.



IT-FLEX HF "HALOGEN FREE" PIPING SUPPORTS

ø piping (mm)	Thickness 13 mm		Thickness 19 mm		Thickness 25 mm		Thickness 32 mm	
	Code	€/each	Code	€/each	Code	€/each	Code	€/each
18	EV10HFSU13018	12,480	EV10HFSU19018	15,295				
22	EV10HFSU13022	13,100	EV10HFSU19022	16,078	EV10HFSU25022	21,576	EV10HFSU32022	25,584
28	EV10HFSU13028	14,680	EV10HFSU19028	17,246	EV10HFSU25028	23,398	EV10HFSU32028	28,535
35	EV10HFSU13035	16,082	EV10HFSU19035	19,380	EV10HFSU25035	25,936	EV10HFSU32035	29,136
42	EV10HFSU13042	18,285	EV10HFSU19042	21,693	EV10HFSU25042	29,528	EV10HFSU32042	32,882
48	EV10HFSU13048	21,565	EV10HFSU19048	24,256	EV10HFSU25048	32,876	EV10HFSU32048	35,672
54	EV10HFSU13054	21,815	EV10HFSU19054	25,932	EV10HFSU25054	34,665	EV10HFSU32054	40,086
60	EV10HFSU13060	25,579	EV10HFSU19060	28,376	EV10HFSU25060	37,876	EV10HFSU32060	43,010
76	EV10HFSU13076	32,890	EV10HFSU19076	35,457	EV10HFSU25076	45,954	EV10HFSU32076	46,020
89	EV10HFSU13089	36,451	EV10HFSU19089	41,995	EV10HFSU25089	53,904	EV10HFSU32089	58,272
114			EV10HFSU19114	56,883	EV10HFSU25114	72,186	EV10HFSU32114	76,652

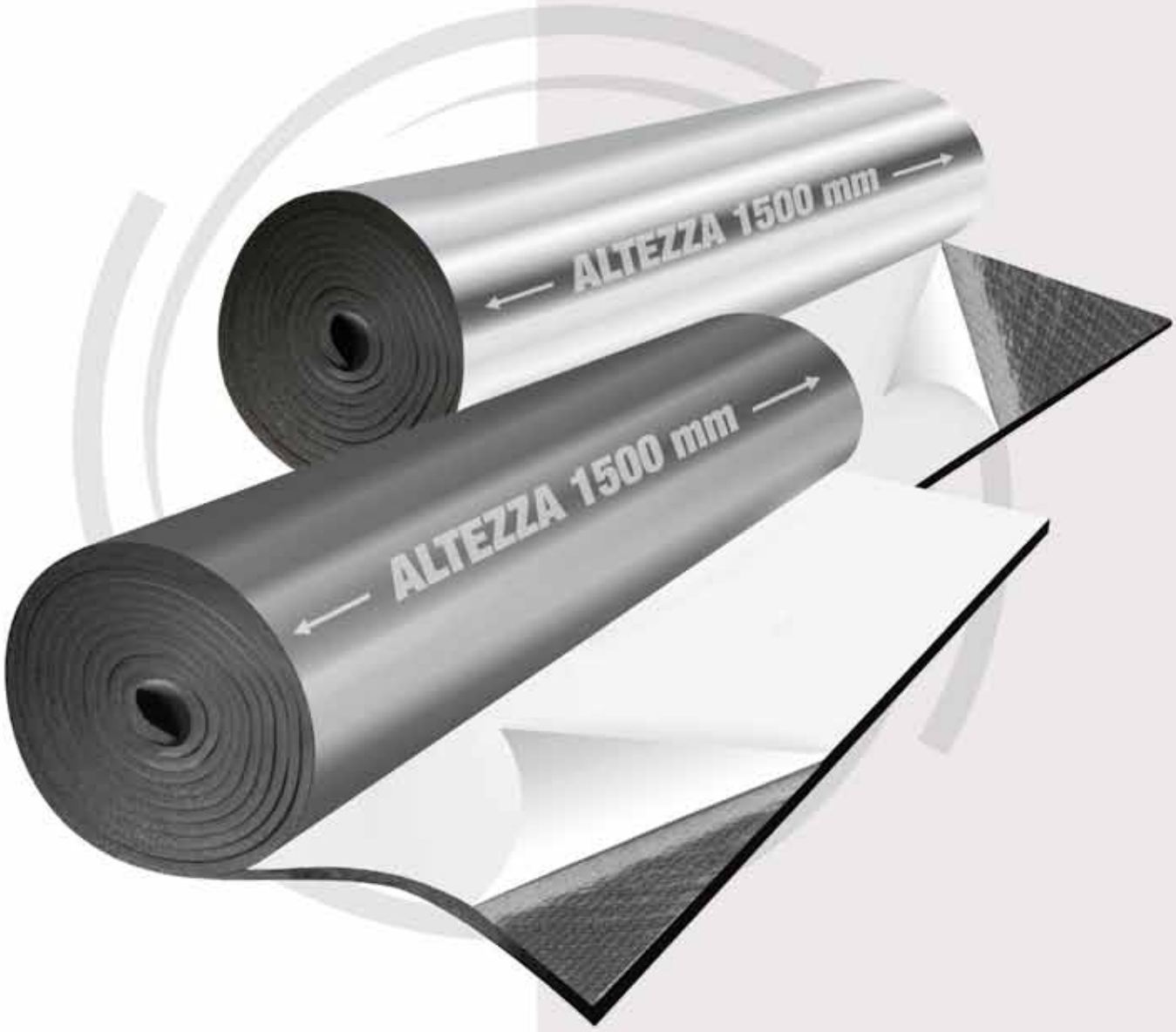
IT-FLEX HF "HALOGEN FREE" - ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc./box)	Price €/roll
EV10HFN315	15	50	12	**89,642**

IT-FLEX - NEOPRENE ADHESIVE, DETERGENTS, PAINT

Code	Description	Packaging content (pc.)	Price €/each
EV8AB850	850 g tin	12	**17,850**
EV8AB425	425 g tin	24	**11,179**
EV8DETERGENTE	1 l can	12	**17,379**
EV8ACVEG-G	Grey elastomeric paint 0,75 l	loose	**42,543**
EV8ACVEG-B	White elastomeric paint 0,75 l	loose	**42,543**



IT-FLEX C1 SA
"DUCT" ADHESIVE

IT-FLEX TRIPLEX
"DUCT" ADHESIVE

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ High water vapour diffusion resistance
- ★ Ensures safety in the event of fire
- ★ Improves installation time on ductwork and relative components
- ★ λ at 0 °C ≤ 0,036 W/m•K
- ★ $\mu \geq 7000$

IT-FLEX C1 SA "DUCT" ADHESIVE
IT-FLEX TRIPLEX "DUCT" ADHESIVE

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF)
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Self-adhesive sheets in rolls with thicknesses from 6 to 30 mm. Tapes with a thickness of 3 mm. The Triplex version is manufactured with a multilayer protective film coating.
PRODUCT APPLICATION	Thermal insulation of ducts and components of air distribution systems also in external environments. (Triplex version).
MAIN CHARACTERISTICS	Flexible and expanded CFC and HCFC-free rubber foam. Does not contain dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 85 °C for sheets glued to the entire surface - 40 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS { B, s3, d0 (SA version) B, s2, d0 (tape) E (TRIPLEX version)	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING

TYPE	MULTILAYER FILM COMPOSITE (PET+ALU+PE)	
COLOUR	ALUMINIUM	
TOTAL THICKNESS	≅ 100 μm	
WEIGHT	125 g m²	
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	EXCELLENT	UNI ISO 4892 - 2

*** NOTE: for lower temperature applications please contact our technical dept.**

Documents and certifications are available upon registration on our website: www.evocell.it

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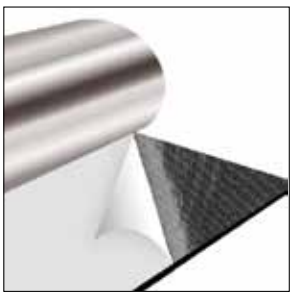
All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX C1 SA "DUCT" SELF-ADHESIVE SHEETS **IN ROLLS h. 1500 mm**



IT-FLEX C1 TRIPLEX "DUCT" SELF-ADHESIVE SHEETS **IN ROLLS h. 1500 mm** WITH MULTILAYER FILM COMPOSITE (PET + ALU + PE) COATING

Code	Thickness (mm)	Roll (m^2/sack)	Price €/m^2
EVBLA06SADUCT	6	45	**15,120**
EVBLA08SADUCT	8	37,5	**16,050**
EVBLA10SADUCT	10	30	**16,710**
EVBLA12SADUCT	12	22,5	**18,050**
EVBLA15SADUCT	15	18	**21,700**
EVBLA20SADUCT	20	15	**27,150**
EVBLA30SADUCT	30	9	**37,180**

Code	Thickness (mm)	Roll (m^2/sack)	Price €/m^2
EVBLATR06DUCT	6	45	**23,950**
EVBLATR08DUCT	8	37,5	**25,130**
EVBLATR10DUCT	10	30	**26,120**
EVBLATR12DUCT	12	22,5	**29,240**
EVBLATR15DUCT	15	18	**34,560**
EVBLATR20DUCT	20	15	**39,890**
EVBLATR30DUCT	30	9	**53,980**

Polythene UV resistant packaging dimensions: 0,55 x h. 1,50 m
Packaging volume = 0.36 m^3

IT-FLEX ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

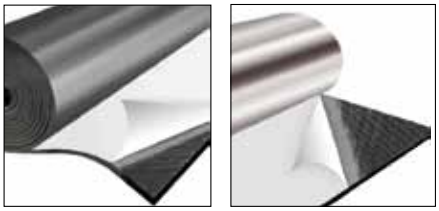
Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRON3	10	50	24	**15,470**
EV8NASTRON315	15	50	12	**21,658**
EV8NASTROTRI	10	50	24	**17,700**

IT-FLEX - NEOPRENE ADHESIVE, DETERGENTS, PAINT

Code	Description	Packaging content (pc)	Price €/each
EV8AB850	850 g tin	12	**17,850**
EV8AB425	425 g tin	24	**11,179**
EV8DETERGENTE	1 l can	12	**17,379**
EV8ACVEG-G	Grey elastomeric paint 0,75 l	loose	**42,543**
EV8ACVEG-B	White elastomeric paint 0,75 l	loose	**42,543**

IT-FLEX - ADHESIVE JOINT-SEALING TAPE

Code	Roll length (m)	Roll width (mm)	Packaging content (pc./box)	Price €/roll
EV8NASTRNCA25	50	25	Sfusi	**16,090**
EV8NASTRNCA50	50	50	Sfusi	**29,204**



DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX C1 SA

"DUCT" ADHESIVE

IT-FLEX TRIPLEX

"DUCT" ADHESIVE

IT-FLEX PE AL

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ High water vapour diffusion resistance
- ★ Good flexibility
- ★ Good mechanical resistance
- ★ λ at 0 °C $\leq$ 0,036 W/m•K
- ★ $\mu \geq 7000$

IT-FLEX PE AL

Technical data sheet

Rev. 01/15

MATERIAL	Composite product of closed-cell flexible elastomeric flexible (FEF), coupled with a crosslinked PE layer and coated with embossed aluminized PE film.
PRODUCT SPECIFICATION	Thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Tubes in bars with diameters from 15 to 160 mm and in thicknesses from 9 to 32 mm. Standard and self-adhesive sheets in rolls with thicknesses from 6 to 32 mm. Tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications, also for external use.
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 110 °C (85 °C for sheets glued to the entire surface) - 40 °C *	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS { SHEETS - E TUBES - E	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING

CROSSLINKED PE	THICKNESS 3 mm
PE FILM ALUMINIZED AND EMBOSSED	THICKNESS 40 microns
PROTECTIVE FILM COLOUR	ALUMINIUM

*** NOTE: for lower temperature applications please contact our technical dept.**

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All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX PE AL - ELASTOMER COUPLED WITH CROSSLINKED PE WITH AN ALUMINATED EMBOSSED COATING - SHEETS IN ROLLS H 1 m

NON-ADHESIVE SHEETS

Code	Thickness (mm)	Roll (m^2/box)	Price €/m^2
EV8PEALBL06	6	30	**26,555**
EV8PEALBL10	9	20	**31,518**
EV8PEALBL13	13	14	**37,035**
EV8PEALBL16	16	12	**41,498**
EV8PEALBL19	19	10	**48,059**
EV8PEALBL25	25	8	**62,241**
EV8PEALBL32	32	6	**71,762**

For self-adhesive sheet rolls please add 3,00 euros/m onto the discounted net price.

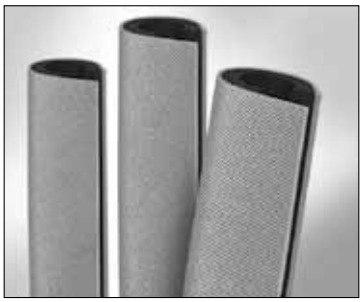
Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m^3

IT-FLEX PE AL - ADHESIVE ELASTOMERIC TAPES

Thickness 1,5 mm

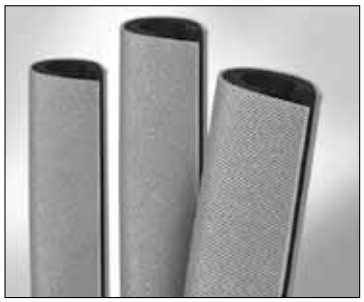
Code	Roll length (m)	Roll width (mm)	Packaging content (pc./box)	Price €/roll
EV8NASTROPEAL	25	50	24	**33,600**

IT-FLEX PE AL - PRECUT SELF-ADHESIVE TUBES: LENGTH 1 m



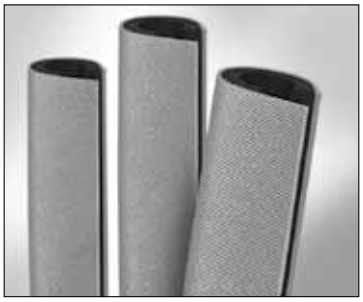
COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **9** mm			Thickness **13** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
							EV3CPE09X015	99	22,546	EV3CPE13X015	73	24,829
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV3CPE09X018	81	23,112	EV3CPE13X018	62	25,395
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV3CPE09X022	71	23,741	EV3CPE13X022	58	26,216
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV3CPE09X028	52	24,957	EV3CPE13X028	43	27,379
						32						
34,92	35	1-3/8”	33,70	1”	25		EV3CPE09X035	39	26,365	EV3CPE13X035	31	30,080
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV3CPE09X042	32	28,746	EV3CPE13X042	27	31,808
			48,30	1-1/2”	40		EV3CPE09X048	28	31,274	EV3CPE13X048	21	34,273
						50						
53,97	54	2”					EV3CPE09X054	24	32,299	EV3CPE13X054	20	35,702
			60,30	2”	50		EV3CPE09X060	24	33,142	EV3CPE13X060	18	36,727
	64					63				EV3CPE13X064	18	40,400
	70											
	76,10		76,10	2-1/2”	65	75	EV3CPE09X076	20	42,105	EV3CPE13X076	12	44,345
	80											
	88,90		88,90	3”	80	90	EV3CPE09X089	13	44,218	EV3CPE13X089	12	46,971
			101,3/104,3	3-1/2”			EV3CPE09X102	10	51,346	EV3CPE13X102	9	58.516
	108	4-1/4”					EV3CPE09X108	10	54,269	EV3CPE13X108	8	59,818
	114	4-1/2”	114,30	4”	100	110	EV3CPE09X114	8	58,569	EV3CPE13X114	8	60,810
						125	EV3CPE09X125	8	86,088	EV3CPE13X125	7	89,119
	133						EV3CPE09X133	6	88,329	EV3CPE13X133	6	91,093
			139,70	5”	125	140	EV3CPE09X140	6	90,250	EV3CPE13X140	6	92,949
	159	6-1/4”				160	EV3CPE09X160	4	112,700	EV3CPE13X160	4	115,212

IT-FLEX PE AL - PRECUT SELF-ADHESIVE TUBES: LENGTH 1 m



COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **19** mm			Thickness **25** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
							EV3CPE19X015	47	**28,404**			
15,87	16	5/8”				16						
	18		17,20	3/8”	10		**EV3CPE19X018**	42	**29,098**	**EV3CPE25X018**	30	**35,735**
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		**EV3CPE19X022**	33	**29,962**	**EV3CPE25X022**	27	**36,653**
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					**EV3CPE19X028**	27	**33,068**	**EV3CPE25X028**	22	**38,477**
						32						
34,92	35	1-3/8”	33,70	1”	25		**EV3CPE19X035**	21	**35,008**	**EV3CPE25X035**	16	**40,708**
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV3CPE19X042**	20	**36,727**	**EV3CPE25X042**	15	**42,105**
			48,30	1-1/2”	40		**EV3CPE19X048**	16	**39,597**	**EV3CPE25X048**	12	**47,440**
						50						
53,97	54	2”					**EV3CPE19X054**	15	**41,070**	**EV3CPE25X054**	11	**54,259**
			60,30	2”	50		**EV3CPE19X060**	15	**42,532**	**EV3CPE25X060**	9	**57,577**
	64					63	**EV3CPE19X064**	15	**46,573**			
	70											
	76,10		76,10	2-1/2”	65	75	**EV3CPE19X076**	11	**49,372**	**EV3CPE25X076**	8	**63,072**
	80											
	88,90		88,90	3”	80	90	**EV3CPE19X089**	9	**53,138**	**EV3CPE25X089**	6	**68,429**
			101,3/104,3	3-1/2”			**EV3CPE19X102**	7	**62,325**	**EV3CPE25X102**	4	**74,009**
	108	4-1/4”					**EV3CPE19X108**	7	**63,692**	**EV3CPE25X108**	3	**78,160**
	114	4-1/2”	114,30	4”	100	110	**EV3CPE19X114**	6	**65,121**	**EV3CPE25X114**	3	**81,180**
						125	**EV3CPE19X125**	5	**97,762**	**EV3CPE25X125**	3	**105,317**
	133						**EV3CPE19X133**	4	**100,558**	**EV3CPE25X133**	3	**125,654**
			139,70	5”	125	140	**EV3CPE19X140**	4	**102,403**	**EV3CPE25X140**	2	**127,809**
	159	6-1/4”	159			160	**EV3CPE19X160**	3	**124,843**	**EV3CPE25X160**	2	**132,238**

IT-FLEX PE AL - PRECUT SELF-ADHESIVE TUBES: LENGTH 1 m



COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **32** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	**Price €/m**
6,35	6	1/4”							
7,93	8	5/16”							
9,52	10	3/8”	10,10	1/8”	6				
12,70	12	1/2”							
	14		13,60	1/4”	8				
15,87	16	5/8”				16			
	18		17,20	3/8”	10		**EV3CPE32X018**	16	**42,051**
19,05		3/4”				20			
22,22	22	7/8”	21,30	1/2”	15		**EV3CPE32X022**	15	**43,129**
25,40		1”				25			
			26,90	3/4”	20				
28,57	28	1-1/8”					**EV3CPE32X028**	12	**46,074**
						32			
34,92	35	1-3/8”	33,70	1”	25		**EV3CPE32X035**	11	**47,568**
						40			
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV3CPE32X042**	11	**52,071**
			48,30	1-1/2”	40		**EV3CPE32X048**	9	**58,581**
						50			
53,97	54	2”					**EV3CPE32X054**	8	**61,557**
			60,30	2”	50		**EV3CPE32X060**	8	**67,511**
	64					63			
	70								
	76,10		76,10	2-1/2”	65	75	**EV3CPE32X076**	6	**82,429**
	80								
	88,90		88,90	3”	80	90	**EV3CPE32X089**	4	**87,561**
			101,3/104,3	3-1/2”			**EV3CPE32X102**	4	**107,643**
	108	4-1/4”					**EV3CPE32X108**	3	**109,468**
	114	4-1/2”	114,30	4”	100	110	**EV3CPE32X114**	3	**112,199**
						125	**EV3CPE32X125**	3	**148,894**
	133						**EV3CPE32X133**	2	**152,267**
			139,70	5”	125	140	**EV3CPE32X140**	2	**155,531**
	159	6-1/4”	159			160	**EV3CPE32X160**	2	**162,457**

IT-FLEX PE AL - ELBOW SHAPE 3

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **9** mm		Thickness **13** mm		Thickness **19** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV2CPE09X018	32,939	EV2CPE13X018	33,205	EV2CPE19X018	36,172
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV2CPE09X022	34,486	EV2CPE13X022	34,775	EV2CPE19X022	38,040
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV2CPE09X028	35,542	EV2CPE13X028	35,809	EV2CPE19X028	39,437
						32						
34,92	35	1-3/8”	33,70	1”	25		EV2CPE09X035	35,831	EV2CPE13X035	36,342	EV2CPE19X035	40,717
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV2CPE09X042	38,018	EV2CPE13X042	38,658	EV2CPE19X042	42,371
			48,30	1-1/2”	40		EV2CPE09X048	39,854	EV2CPE13X048	40,654	EV2CPE19X048	44,132
						50						
53,97	54	2”					EV2CPE09X054	42,478	EV2CPE13X054	42,724	EV2CPE19X054	45,925
			60,30	2”	50		EV2CPE09X060	43,802	EV2CPE13X060	44,485	EV2CPE19X060	47,675
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	EV2CPE09X076	50,961	EV2CPE13X076	51,558	EV2CPE19X076	56,233
	80											
	88,90		88,90	3”	80	90	EV2CPE09X089	53,718	EV2CPE13X089	54,835	EV2CPE19X089	59,188
			101,3/104,3	3-1/2”			EV2CPE09X102	61,002	EV2CPE13X102	62,773	EV2CPE19X102	67,522
	108	4-1/4”					EV2CPE09X108	63,692	EV2CPE13X108	64,896	EV2CPE19X108	72,921
	114	4-1/2”	114,30	4”	100	110	EV2CPE09X114	66,966	EV2CPE13X114	70,029	EV2CPE19X114	78,001
						125	EV2CPE09X125	71,844	EV2CPE13X125	75,022	EV2CPE19X125	83,208
	133						EV2CPE09X133	74,447	EV2CPE13X133	77,594	EV2CPE19X133	90,965
			139,70	5”	125	140	EV2CPE09X140	80,967	EV2CPE13X140	84,583	EV2CPE19X140	97,933
	159	6-1/4”	159			160	EV2CPE09X160	86,461	EV2CPE13X160	90,698	EV2CPE19X160	105,999

IT-FLEX PE AL - ELBOW SHAPE 3

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **25** mm		Thickness **32** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4”								
7,93	8	5/16”								
9,52	10	3/8”	10,10	1/8”	6					
12,70	12	1/2”								
	14		13,60	1/4”	8					
15,87	16	5/8”				16				
	18		17,20	3/8”	10		EV2CPE25X018	38,521	EV2CPE32X018	46,800
19,05		3/4”				20				
22,22	22	7/8”	21,30	1/2”	15		EV2CPE25X022	40,377	EV2CPE32X022	47,483
25,40		1”				25				
			26,90	3/4”	20					
28,57	28	1-1/8”					EV2CPE25X028	42,084	EV2CPE32X028	49,094
						32				
34,92	35	1-3/8”	33,70	1”	25		EV2CPE25X035	43,812	EV2CPE32X035	51,708
						40				
41,27	42	1-5/8”	42,40	1-1/4”	32		EV2CPE25X042	46,074	EV2CPE32X042	57,257
			48,30	1-1/2”	40		EV2CPE25X048	47,931	EV2CPE32X048	59,381
						50				
53,97	54	2”					EV2CPE25X054	50,300	EV2CPE32X054	60,597
			60,30	2”	50		EV2CPE25X060	52,423	EV2CPE32X060	65,281
	64					63				
	70									
	76,10		76,10	2-1/2”	65	75	EV2CPE25X076	61,653	EV2CPE32X076	75,941
	80									
	88,90		88,90	3”	80	90	EV2CPE25X089	68,387	EV2CPE32X089	78,950
			101,3/104,3	3-1/2”			EV2CPE25X102	79,611	EV2CPE32X102	94,743
	108	4-1/4”					EV2CPE25X108	84,583	EV2CPE32X108	102,009
	114	4-1/2”	114,30	4”	100	110	EV2CPE25X114	92,512	EV2CPE32X114	111,505
						125	EV2CPE25X125	98,029	EV2CPE32X125	126,913
	133						EV2CPE25X133	100,675	EV2CPE32X133	131,757
			139,70	5”	125	140	EV2CPE25X140	107,269	EV2CPE32X140	140,134
	159	6-1/4”	159			160	EV2CPE25X160	117,962	EV2CPE32X160	161,358

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX PE AL

IT-FLEX TRIPLEX

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ High water vapour diffusion resistance
- ★ Good flexibility
- ★ Good mechanical resistance
- ★ λ at 0 °C $\leq$ 0,036 W/m•K
- ★ $\mu \geq 7000$

IT-FLEX TRIPLEX

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF), with a multilayer coating of PET-PE-ALU films.
PRODUCT SPECIFICATION	Thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Standard and self-adhesive sheets in rolls with thicknesses from 6 to 32 mm. Adhesive tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications.
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical information	Reference data	Test standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 85 °C - 40 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS E	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING

TOTAL THICKNESS	≅ 100 μm
WEIGHT	≅ 120 gm^2
PROTECTIVE FILM COLOUR	ALUMINIUM

*** NOTE: for lower temperature applications please contact our technical dept.**

Documents and certifications are available upon registration on our website: www.evocell.it

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All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX TRIPLEX - ELASTOMER COUPLED WITH A MULTILAYER COATING OF ALUMINIUM/PET/PE FILMS - SHEETS IN ROLLS: H 1 m

NON-ADHESIVE SHEETS

Code	Thickness (mm)	Roll (m^2/box)	Price €/m^2
EV8TRIBL06	6	30	**22,664**
EV8TRIBL10	9	20	**27,628**
EV8TRIBL13	13	14	**33,143**
EV8TRIBL16	16	12	**37,606**
EV8TRIBL19	19	10	**44,166**
EV8TRIBL25	25	8	**58,347**
EV8TRIBL32	32	6	**67,864**

For self-adhesive sheet rolls please add 3,00 euros/m onto the discounted net price.

Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m^3

IT-FLEX TRIPLEX - ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTROTRI	10	50	24	**17,700**

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX HI-TECH

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ High water vapour diffusion resistance
- ★ Good flexibility
- ★ Good mechanical resistance
- ★ Excellent UV resistance
- ★ λ at 0 °C $\leq$ 0,036 W/m•K
- ★ $\mu \geq 7000$

IT-FLEX HI TECH

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF) coated with an embossed aluminium sheet.
PRODUCT SPECIFICATION	Thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Standard and self-adhesive sheets in rolls with thicknesses from 6 to 32 mm. Adhesive tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications. Also suitable for external use.
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical information	Reference data	Test standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 85 °C - 40 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS C, s3, d0	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING

TYPE	EMBOSSED ALU SHEET
TOTAL THICKNESS	50 μm
RESISTANCE TO WATER VAPOUR DIFFUSION μ	∞

*** NOTE: for lower temperature applications please contact our technical dept.**

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IT-FLEX HI TECH - ELASTOMER COUPLED WITH AN EMBOSSED ALU SHEET. SHEET IN ROLLS: H 1 m

NON-ADHESIVE SHEETS

Codice	Thickness (mm)	Roll (m^2/box)	Price €/m^2
EV8HTBL06	6	30	**26,090**
EV8HTBL10	9	20	**28,102**
EV8HTBL13	13	14	**35,516**
EV8HTBL16	16	12	**39,712**
EV8HTBL19	19	10	**51,083**
EV8HTBL25	25	8	**66,122**
EV8HTBL32	32	6	**76,632**

For self-adhesive sheet rolls please add 3,00 euros/m onto the discounted net price.

Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m^3

IT-FLEX HI TECH - ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRON3HT	10	50	24	**24,937**

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX UV PROTECTION

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ High water vapour diffusion resistance
- ★ Good flexibility
- ★ Good mechanical resistance
- ★ Good UV resistance
- ★ λ at 0 °C ≤ 0,036 W/m•K
- ★ $\mu \geq 7000$

IT-FLEX UV PROTECTION

Technical data sheet

Rev. 01/15

MATERIAL	Closed-cell flexible elastomeric foam (FEF), coupled with polyolefin film with high UV resistance.
PRODUCT SPECIFICATION	Thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Standard and self-adhesive sheets in rolls with thicknesses from 6 to 32 mm. Adhesive tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications. Also suitable for external use.
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical information	Reference data	Test standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 85 °C - 40 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS E	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7325
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

TECHNICAL CHARACTERISTICS OF THE EXTERNAL PROTECTIVE COATING

TYPE	POLYOLEFIN UV RESISTANT FILM
TOTAL THICKNESS	50 μm
COLOUR	BLACK RAL 9005

*** NOTE: for lower temperature applications please contact our technical dept.**

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IT-FLEX UV PROTECTION - ELASTOMER COUPLED TO A BLACK POLYOLEFIN UV RESISTANT FILM.
SHEETS IN ROLLS: H 1 m

NON-ADHESIVE SHEETS

Code	Thickness (mm)	Roll (m^2/box)	Price €/m^2
EV8UVBL06	6	30	**20,717**
EV8UVBL10	9	20	**25,683**
EV8UVBL13	13	14	**31,198**
EV8UVBL16	16	12	**35,660**
EV8UVBL19	19	10	**42,221**
EV8UVBL25	25	8	**56,402**
EV8UVBL32	32	6	**65,924**

For self-adhesive sheet rolls please add 3,00 euros/m onto the discounted net price.

Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m^3

IT-FLEX UV PROTECTION - ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc./box)	Price €/roll
EV8NASTROUV	10	50	24	**14,800**

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX COVER

- ★ Good mechanical resistance
- ★ Good adaptability to the surface to be covered
- ★ Excellent aesthetic appearance of the finishing
- ★ Good UV resistance

IT-FLEX COVER

Technical data sheet

Rev. 01/15

MATERIAL	Multilayer self wrapping sheet in PVC/Aluminium/UV protection film.
PRODUCT SPECIFICATION	Protective cover for insulated pipeworks.
PRODUCT RANGE	Sheets, rolls, tapes, elbows and special shaped products with a thickness of 230 μm.
PRODUCT APPLICATION	Surface covering and finishing of insulations.
MAIN CHARACTERISTICS	Also suitable also for external applications.

Technical information	Reference data	Test standards
TOTAL WEIGHT	340 g/mq	EN 22 286
THICKNESS	ca 230 μm	
BREAKING LOAD	MD 200 N/ 15mm-CD 175 N/15mm	EN ISO 527-3
ELONGATION	MD 48% - CD 51%	EN ISO 527-3
TEAR STRENGTH	MD 70 N - CD 28 N	EN ISO 527-3
BORING RESISTANCE	⌀ 0,8 mm 23 N - ⌀ 0,3 mm 87 N	pr EN 14 477
TEAR STRENGHT (NAIL)	MD 50 N - CD 42 N	EN 12310-1
LOI (Oxigen Index Limit)	35,5% O_2	ASTEM D 2863 - ISO 4589
UV RESISTANCE (Stability Test)	EXCELLENT	ASTEM G 26 - ISO 4892 - 2
WATER VAPOUR DIFFUSION	< 0,028 g/mq/d	ASTM F 1429 - ISO 15106 - 2
SD (Equivalent stratus of air)	> 1500 m	
EMISSIVITY ε	94%	
SERVICE TEMPERATURE	da -25 °C a +75 °C	
REACTION TO FIRE	Class 0 - B1	BS 476 part 6 & 7 - DIN 4102 - 1
RADIANT PANEL INDEX	0,50	ASTM E 162 - 02
Flame	1 (at 1,5 min) - 3 (at 4,5 min)	ASTM E 662 - 03
No flame	0 (at 1,5 min) - 0 (at 4,5 min)	ASTM E 662 - 03

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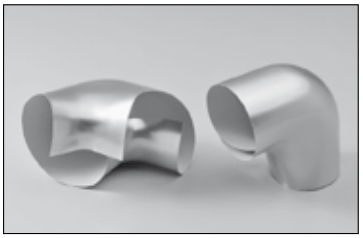
IT-FLEX COVER - COVERING ROLL IN PVC/ALU/UV PROTECTION FILM H 1 m

Thickness 230 µm

Code	Roll dimensions	m^2/roll	Price €/m^2
EV6COVER230	1 x 25 m	25	**18,645**
EV6COVER230 Self-Adhesive	1 x 25 m	25	**20,725**



IT-FLEX COVER - 90° ELBOWS Quantity 10 pc/box - Other dimensions on request

Ø Pipeworks		Insulation thickness				
		13 mm	15 mm	20 mm	25 mm	30 mm
Inches	mm	Price €/pc	Price €/pc	Price €/pc	Price €/pc	Price €/pc
	14	**8,840**				
3/8”	18	**9,244**	**9,637**	**9,637**	**11,041**	**12,456**
1/2”	22	**9,244**	**9,637**	**9,795**	**12,007**	**12,849**
3/4”	28	**9,637**	**9,795**	**10,210**	**12,816**	**15,264**
1”	35	**9,795**	**10,210**	**11,974**	**15,736**	**16,466**
1-1/4”	42			**13,254**	**16,871**	**19,600**
1-1/2”	48			**17,466**	**18,881**	**20,723**
	54			**17,915**		**21,689**
	57					
2”	60			**18,881**	**24,497**	**25,305**
	64					
	70					
2-1/2”	76			**33,932**	**34,538**	**35,133**
3”	89			**35,336**	**41,367**	**48,185**
	102			**58,226**	**59,833**	**60,641**
	108					
4”	114			**62,641**	**65,056**	**67,706**
	127					
	134				**104,603**	**108,827**
5”	140				**109,423**	**150,981**

IT-FLEX COVER - SELF-ADHESIVE TAPES

Thickness 230 µm

Code	Dimensions Width (mm) x Length (m)	Content/box n. pc.	Price €/m^2
EV8NASTCOVE25	25 x 50	48	**31,685**
EV8NASTCOVE50	50 x 50	24	**64,584**

IT-FLEX TCA

- ★ Good mechanical resistance
- ★ Excellent aesthetic appearance of the finishing
- ★ Good UV resistance

IT-FLEX TCA

Technical data sheet

Rev. 01/15

MATERIAL	ALU sheet (99,5%)
PRODUCT SPECIFICATION	External protective covering of insulation
PRODUCT RANGE	Tubes, elbow and special shaped parts with diameters from 70 mm to 500 mm, and thicknesses from 0,5 to 1 mm.
PRODUCT APPLICATION	Surface covering protection for insulations. Also suitable for external applications.

Tubes: Diameters from 70 mm up to 300 mm, 1 m in length, thicknesses from 0,6 mm

Elbows: Diameters from 70 mm up to 300 mm, produced in segments with 3,2 mm double hole.

Special parts: Diameters from 70 to 300 mm, T connectors and reducers: H. 100,150, 200 mm

TECHNICAL INFORMATION

Mechanical properties

	Yield strength load % 0,2 (mpa)	Tensil strength % 0,2 (mpa)	Elongation (A50) %
Standard	120	140	1
Test results	188,21	195.78	46,7

Chemical composition

		Sl %	Fe %	Cu %	Mn %	Mg %	Zn %	Ti %	Al %
Standard	Min								99,50
	Max	0,25	0,40	0,05	0,05	0,05	0,07	0,05	
Test results		0,087	0,353	0,006	0,004	0,002	0,009	0,0065	99,534

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IT-FLEX TCA TUBE H 1 m, AND ELBOW COVERINGS IN ALUMINIUM

ø external PIPE (mm)	Code Thickness 6/10	Circumference	Price €/m
70	EV4TAL070X022	22	26,395
80	EV4TAL080X026	26	25,350
90	EV4TAL090X028	28	28,203
100	EV4TAL100X032	32	29,293
110	EV4TAL110X036	36	31,483
120	EV4TAL120X038	38	34,022
130	EV4TAL130X042	42	36,897
140	EV4TAL140X044	44	38,716
150	EV4TAL150X048	48	41,929
160	EV4TAL160X050	50	43,389
170	EV4TAL170X053	53	45,568
180	EV4TAL180X056	56	48,106
190	EV4TAL190X060	60	51,375
200	EV4TAL200X064	64	54,598
210	EV4TAL210X066	66	56,070
220	EV4TAL220X070	70	59,294
230	EV4TAL230X072	72	60,765
240	EV4TAL240X077	77	64,538
250	EV4TAL250X080	80	66,931
260	EV4TAL260X082	82	68,717
270	EV4TAL270X085	85	70,907
280	EV4TAL280X088	88	80,656
290	EV4TAL290X091	91	73,390
300	EV4TAL300X097	97	75,939

ø ELBOWS (mm)	Code Thickness 6/10	Circumference	Price €/m
70	EV4CAL070X022	22	32,898
80	EV4CAL080X026	26	33,257
90	EV4CAL090X028	28	33,628
100	EV4CAL100X032	32	33,628
110	EV4CAL110X036	36	34,302
120	EV4CAL120X038	38	35,819
130	EV4CAL130X042	42	36,897
140	EV4CAL140X044	44	39,413
150	EV4CAL150X048	48	40,862
160	EV4CAL160X050	50	43,749
170	EV4CAL170X053	53	47,018
180	EV4CAL180X056	56	53,891
190	EV4CAL190X060	60	59,294
200	EV4CAL200X064	64	63,303
210	EV4CAL210X066	66	70,907
220	EV4CAL220X070	70	74,108
230	EV4CAL230X072	72	79,523
240	EV4CAL240X077	77	81,735
250	EV4CAL250X080	80	85,340
260	EV4CAL260X082	82	87,137
270	EV4CAL270X085	85	89,316
280	EV4CAL280X088	88	92,922
290	EV4CAL290X091	91	103,054
300	EV4CAL300X097	97	103,054

NOTE - For other thicknesses and diameters please contact our technical dept.

IT-FLEX SYSTEM COVER

- ★ Composite insulation system with external protection
- ★ Closed-cell microcellular structure
- ★ Excellent insulation performance
- ★ High water vapour diffusion resistance
- ★ High mechanical resistance
- ★ Quick and easy to install
- ★ λ at 0 °C ≤ 0,036 W/m•K
- ★ $\mu \geq 7000$ (elastomeric insulation) - $\mu \geq 15000$ (covering)

IT-FLEX SYSTEM COVER

Technical data sheet
(ELASTOMERIC INSULATION IT-FLEX C1)

Rev. 01/15 A

MATERIAL	Closed-cell flexible elastomeric foam (FEF).
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Standard and self-adhesive tubes in bars or continuous rolls with diameters from 15 to 170 mm and thicknesses from 6 to 60 mm. Sheets in rolls or panels, standard or self-adhesive, with thicknesses from 6 to 60 mm. Adhesive tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications. Also suitable for external use (C1R version)
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 110 °C (85 °C for sheets glued to the entire surface) - 40 °C	UNI ISO 188 - EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C ≤ 0,036 W/m•K At mean temp. of 40 °C ≤ 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	≥ 7000	EN 13469 - DIN 52615
REACTION TO FIRE	EUROCLASS { TUBES C_L, s2, d0 SHEETS B, s3, d0 TAPE B, s2, d0	EN 13501
LOW FLAME SPREAD	MEETS TEST REQUIREMENTS	EN 13468
CORROSION RISK	MEETS TEST REQUIREMENTS	ISO 7325
OZONE RESISTANCE	EXCELLENT	UNI ISO 4892 - 2
UV RESISTANCE	GOOD	
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	

REACTION TO FIRE OF THE COMPLETE SYSTEM (ELASTOMER + CLADDING)	EUROCLASS	{ TUBES C_L, s2, d0 SHEETS and TAPES E	EN 13501 - 1

*** NOTE: for lower temperature applications please contact our technical dept.**

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IT-FLEX SYSTEM COVER

Technical data sheet
(EXTERNAL PROTECTIVE COVER)

Rev. 01/15 B

MATERIAL	Self wrapping multilayer coating of PVC/ALU/UV protection films.
PRODUCT SPECIFICATION	Protective covering of insulated pipeworks
PRODUCT RANGE	Rolls, tapes, elbows and special shapes with a thickness of 230 μm.
PRODUCT APPLICATION	Surface covering and finishing of insulations.
MAIN CHARACTERISTICS	Also suitable for external applications.

Technical Information	Reference data	Test Standards
TOTAL WEIGHT	340 g/mq	EN 22 286
THICKNESS	approx. 230 μm	
BREAKING LOAD	MD 200 N/ 15mm-CD 175 N/15mm	EN ISO 527-3
ELONGATION	MD 48% - CD 51%	EN ISO 527-3
TEAR STRENGTH	MD 70 N - CD 28 N	EN ISO 527-3
BORING RESISTANCE	ø 0,8 mm 23 N - ø 0,3 mm 87 N	pr EN 14 477
TEAR STRENGHT (NAIL)	MD 50 N - CD 42 N	EN 12310-1
LOI (Oxigen Index Limit)	35,5% O_2	ASTEM D 2863 - ISO 4589
UV RESISTANCE (Stability Test)	EXCELLENT	ASTEM G 26 - ISO 4892 - 2
WATER VAPOUR DIFFUSION	< 0,028 g/mq/d	ASTM F 1429 - ISO 15106 - 2
SD (Equivalent stratus of air)	> 1500 m	
EMISSIVITY ε	94%	
SERVICE TEMPERATURE	from -25 °C to +75 °C	
REACTION TO FIRE	Class 0 - B1	BS 476 part 6 & 7 - DIN 4102 - 1
RADIANT PANEL INDEX	0,50	ASTM E 162 - 02
Flame	1 (at 1,5 min) - 3 (at 4,5 min)	ASTM E 662 - 03
No flame	0 (at 1,5 min) - 0 (at 4,5 min)	ASTM E 662 - 03
REACTION TO FIRE OF THE COMPLETE SYSTEM (ELASTOMER + CLADDING)	EUROCLASS { TUBES C_L, s2, d0 / SHEETS and TAPES E	EN 13501 - 1

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IT-FLEX SYSTEM COVER - PRE-CUT, SELF-ADHESIVE TUBES: LENGTH 1 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **9** mm			Thickness **13** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
							EV1C09X015	99	**23,733**	**EV1C13X015**	73	**26,136**
15,87	16	5/8”				16						
	18		17,20	3/8”	10		**EV1C09X018**	81	**24,328**	**EV1C13X018**	62	**26,732**
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		**EV1C09X022**	71	**24,991**	**EV1C13X022**	58	**27,596**
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					**EV1C09X028**	52	**26,271**	**EV1C13X028**	43	**28,820**
						32						
34,92	35	1-3/8”	33,70	1”	25		**EV1C09X035**	39	**27,753**	**EV1C13X035**	31	**31,663**
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV1C09X042**	32	**30,259**	**EV1C13X042**	27	**33,482**
			48,30	1-1/2”	40		**EV1C09X048**	28	**32,920**	**EV1C13X048**	21	**36,077**
						50						
53,97	54	2”					**EV1C09X054**	24	**33,999**	**EV1C13X054**	20	**37,581**
			60,30	2”	50		**EV1C09X060**	24	**34,886**	**EV1C13X060**	18	**38,660**
	64					63	**EV1C09X064**	24	**38,374**	**EV1C13X064**	18	**42,526**
	70											
	76,10		76,10	2-1/2”	65	75	**EV1C09X076**	20	**44,321**	**EV1C13X076**	12	**46,679**
	80											
	88,90		88,90	3”	80	90	**EV1C09X089**	13	**46,545**	**EV1C13X089**	12	**49,443**
		4-1/4”	101,3/104,3	3-1/2”			**EV1C09X102**	10	**54,048**	**EV1C13X102**	9	**61,596**
	108	4-1/2”					**EV1C09X108**	10	**57,125**	**EV1C13X108**	8	**62,966**
	114		114,30	4”	100	110	**EV1C09X114**	8	**61,652**	**EV1C13X114**	8	**64,011**
						125	**EV1C09X125**	8	**90,619**	**EV1C13X125**	7	**93,809**
	133						**EV1C09X133**	6	**92,978**	**EV1C13X133**	6	**95,887**
						140	**EV1C09X140**	6	**95,000**	**EV1C13X140**	6	**97,841**
	159	6-1/4”	159			160	**EV1C09X160**	4	**118,632**	**EV1C13X160**	4	**121,276**

IT-FLEX SYSTEM COVER - PRE-CUT, SELF-ADHESIVE TUBES: LENGTH 1 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **19** mm			Thickness **25** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
							EV1C19X015	47	29,899			
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV1C19X018	42	30,629	EV1C25X018	30	37,616
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV1C19X022	33	31,539	EV1C25X022	27	38,582
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV1C19X028	27	34,808	EV1C25X028	22	40,502
						32						
34,92	35	1-3/8”	33,70	1”	25		EV1C19X035	21	36,851	EV1C25X035	16	42,850
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV1C19X042	20	38,660	EV1C25X042	15	44,321
			48,30	1-1/2”	40		EV1C19X048	16	41,681	EV1C25X048	12	49,937
						50						
53,97	54	2”					EV1C19X054	15	43,232	EV1C25X054	11	57,115
			60,30	2”	50		EV1C19X060	15	44,770	EV1C25X060	9	60,607
	64					63	EV1C19X064	15	49,024			
	70											
	76,10		76,10	2-1/2”	65	75	EV1C19X076	11	51,970	EV1C25X076	8	66,392
	80											
	88,90		88,90	3”	80	90	EV1C19X089	9	55,935	EV1C25X089	6	72,030
		4-1/4”	101,3/104,3	3-1/2”			EV1C19X102	7	65,605	EV1C25X102	4	77,904
	108	4-1/2”					EV1C19X108	7	67,044	EV1C25X108	3	82,274
	114		114,30	4”	100	110	EV1C19X114	6	68,548	EV1C25X114	3	85,453
						125	EV1C19X125	5	102,907	EV1C25X125	3	110,860
	133						EV1C19X133	4	105,850	EV1C25X133	3	132,267
						140	EV1C19X140	4	107,793	EV1C25X140	2	134,536
	159	6-1/4”	159			160	EV1C19X160	3	131,414	EV1C25X160	2	139,198

IT-FLEX SYSTEM COVER - PRE-CUT, SELF-ADHESIVE TUBES: LENGTH 1 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **32** mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m
6,35	6	1/4”							
7,93	8	5/16”							
9,52	10	3/8”	10,10	1/8”	6				
12,70	12	1/2”							
	14		13,60	1/4”	8				
15,87	16	5/8”				16			
	18		17,20	3/8”	10		**EV1C32X018**	16	**44,264**
19,05		3/4”				20			
22,22	22	7/8”	21,30	1/2”	15		**EV1C32X022**	15	**45,399**
25,40		1”				25			
			26,90	3/4”	20				
28,57	28	1-1/8”					**EV1C32X028**	12	**48,499**
						32			
34,92	35	1-3/8”	33,70	1”	25		**EV1C32X035**	11	**50,072**
						40			
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV1C32X042**	11	**54,812**
			48,30	1-1/2”	40		**EV1C32X048**	9	**61,664**
						50			
53,97	54	2”					**EV1C32X054**	8	**64,797**
			60,30	2”	50		**EV1C32X060**	8	**71,064**
	64					63			
	70								
	76,10		76,10	2-1/2”	65	75	**EV1C32X076**	6	**86,767**
	80								
	88,90		88,90	3”	80	90	**EV1C32X089**	4	**92,169**
		4-1/4”	101,3/104,3	3-1/2”			**EV1C32X102**	4	**113,308**
	108	4-1/2”					**EV1C32X108**	3	**115,229**
	114		114,30	4”	100	110	**EV1C32X114**	3	**118,104**
						125	**EV1C32X125**	3	**156,731**
	133						**EV1C32X133**	2	**160,281**
						140	**EV1C32X140**	2	**163,717**
	159	6-1/4”	159			160	**EV1C32X160**	2	**171,007**

IT-FLEX SYSTEM COVER - PRE-CUT, SELF-ADHESIVE TUBES: LENGTH 1 m

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES									
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4”													
7,93	8	5/16”													
9,52	10	3/8”	10,10	1/8”	6										
12,70	12	1/2”													
	14		13,60	1/4”	8										
							EV1C19X015	47	29,899	EV1C09X015	99	23,733			
15,87	16	5/8”				16									
	18		17,20	3/8”	10		EV1C19X018	42	30,629	EV1C09X018	81	24,328			
19,05		3/4”				20									
22,22	22	7/8”	21,30	1/2”	15		EV1C32X022	15	45,399	EV1C15X022	58	29,596	EV1C09X022	71	24,991
25,40		1”				25									
			26,90	3/4”	20										
28,57	28	1-1/8”					EV1C32X028	12	48,499	EV1C15X028	43	30,820	EV1C09X028	52	26,271
						32									
34,92	35	1-3/8”	33,70	1”	25		EV1C32X035	11	50,072	EV1C15X035	31	33,663	EV1C09X035	39	27,753
						40									
41,27	42	1-5/8”	42,40	1-1/4”	32		EV1C40X042	7	79,129	EV1C19X042	20	38,660	EV1C13X042	27	33,482
			48,30	1-1/2”	40		EV1C40X048	5	101,739	EV1C19X048	16	41,681	EV1C13X048	21	36,077
						50									
53,97	54	2”					EV1C40X054	5	120,272	EV1C19X054	15	43,232	EV1C13X054	20	37,581
			60,30	2”	50		EV1C50X060	3	123,777	EV1C25X060	9	60,607	EV1C15X060	18	40,660
	64					63									
	70														
	76,10		76,10	2-1/2”	65	75	EV1C50X076	3	149,049	EV1C25X076	8	66,392	EV1C15X076	12	48,679
	80														
	88,90		88,90	3”	80	90	EV1C55X089	3	273,038	EV1C32X089	4	92,169	EV1C19X089	9	55,935
			101,3/104,3	3-1/2”											
	108	4-1/4”													
	114	4-1/2”	114,30	4”	100	110	EV1C60X114	2	363,563	EV1C32X114	3	118,104	EV1C19X114	6	68,548

Packaging dimensions: 104 x 40 x 40 cm.
Packaging volume = 0,17 m^3

IT-FLEX SYSTEM COVER - SHAPE 3 ELBOWS

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **9** mm		Thickness **13** mm		Thickness **19** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV2CC09X018	34,673	EV2CC13X018	34,953	EV2CC19X018	38,076
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV2CC09X022	36,301	EV2CC13X022	36,605	EV2CC19X022	40,042
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV2CC09X028	37,413	EV2CC13X028	37,694	EV2CC19X028	41,513
						32						
34,92	35	1-3/8”	33,70	1”	25		EV2CC09X035	37,717	EV2CC13X035	38,255	EV2CC19X035	42,860
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV2CC09X042	40,019	EV2CC13X042	40,693	EV2CC19X042	44,601
			48,30	1-1/2”	40		EV2CC09X048	41,952	EV2CC13X048	42,794	EV2CC19X048	46,455
						50						
53,97	54	2”					EV2CC09X054	44,714	EV2CC13X054	44,973	EV2CC19X054	48,342
			60,30	2”	50		EV2CC09X060	46,107	EV2CC13X060	46,826	EV2CC19X060	50,184
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	EV2CC09X076	53,643	EV2CC13X076	54,272	EV2CC19X076	59,193
	80											
	88,90		88,90	3”	80	90	EV2CC09X089	56,545	EV2CC13X089	57,721	EV2CC19X089	62,303
			101,3/104,3	3-1/2”			EV2CC09X102	64,213	EV2CC13X102	66,077	EV2CC19X102	71,076
	108	4-1/4”					EV2CC09X108	67,044	EV2CC13X108	68,312	EV2CC19X108	76,759
	114	4-1/2”	114,30	4”	100	110	EV2CC09X114	70,491	EV2CC13X114	73,715	EV2CC19X114	82,106
						125	EV2CC09X125	75,625	EV2CC13X125	78,971	EV2CC19X125	87,587
	133						EV2CC09X133	78,365	EV2CC13X133	81,678	EV2CC19X133	95,753
			139,70	5”	125	140	EV2CC09X140	85,228	EV2CC13X140	89,035	EV2CC19X140	103,087
	159	6-1/4”	159			160	EV2CC09X160	91,012	EV2CC13X160	95,472	EV2CC19X160	111,578

IT-FLEX SYSTEM COVER - SHAPE 3 ELBOWS

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **25** mm		Thickness **32** mm		Thickness **40** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV2CC25X018	40,548	EV2CC32X018	49,263	EV2CC40X018	57,036
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV2CC25X022	42,502	EV2CC32X022	49,982	EV2CC40X022	58,069
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV2CC25X028	44,299	EV2CC32X028	51,678	EV2CC40X028	61,169
						32						
34,92	35	1-3/8”	33,70	1”	25		EV2CC25X035	46,118	EV2CC32X035	54,429	EV2CC40X035	65,965
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV2CC25X042	48,499	EV2CC32X042	60,270	EV2CC40X042	72,547
			48,30	1-1/2”	40		EV2CC25X048	50,454	EV2CC32X048	62,506	EV2CC40X048	73,861
						50						
53,97	54	2”					EV2CC25X054	52,947	EV2CC32X054	63,786	EV2CC40X054	79,095
			60,30	2”	50		EV2CC25X060	55,182	EV2CC32X060	68,717	EV2CC40X060	82,846
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	EV2CC25X076	64,898	EV2CC32X076	79,938	EV2CC40X076	102,525
	80											
	88,90		88,90	3”	80	90	EV2CC25X089	71,986	EV2CC32X089	83,105	EV2CC40X089	125,574
			101,3/104,3	3-1/2”			EV2CC25X102	83,801	EV2CC32X102	99,729	EV2CC40X102	149,407
	108	4-1/4”					EV2CC25X108	89,035	EV2CC32X108	107,378	EV2CC40X108	160,887
	114	4-1/2”	114,30	4”	100	110	EV2CC25X114	97,381	EV2CC32X114	117,374	EV2CC40X114	169,063
						125	EV2CC25X125	103,188	EV2CC32X125	133,593	EV2CC40X125	182,766
	133						EV2CC25X133	105,974	EV2CC32X133	138,692	EV2CC40X133	210,869
			139,70	5”	125	140	EV2CC25X140	112,915	EV2CC32X140	147,509	EV2CC40X140	238,981
	159	6-1/4”	159			160	EV2CC25X160	124,170	EV2CC32X160	169,850	EV2CC40X160	259,436

IT-FLEX SYSTEM COVER - SHAPE 3 ELBOWS

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **50** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	**Price €/pc**
6,35	6	1/4”						
7,93	8	5/16”						
9,52	10	3/8”	10,10	1/8”	6			
12,70	12	1/2”						
	14		13,60	1/4”	8			
15,87	16	5/8”				16		
	18		17,20	3/8”	10		**EV2CC50X018**	**67,414**
19,05		3/4”				20		
22,22	22	7/8”	21,30	1/2”	15		**EV2CC50X022**	**78,613**
25,40		1”				25		
			26,90	3/4”	20			
28,57	28	1-1/8”					**EV2CC50X028**	**81,769**
						32		
34,92	35	1-3/8”	33,70	1”	25		**EV2CC50X035**	**85,284**
						40		
41,27	42	1-5/8”	42,40	1-1/4”	32		**EV2CC50X042**	**94,394**
			48,30	1-1/2”	40		**EV2CC50X048**	**96,988**
						50		
53,97	54	2”					**EV2CC50X054**	**99,380**
			60,30	2”	50		**EV2CC50X060**	**112,882**
	64					63		
	70							
	76,10		76,10	2-1/2”	65	75	**EV2CC50X076**	**129,381**
	80							
	88,90		88,90	3”	80	90	**EV2CC50X089**	**162,134**
			101,3/104,3	3-1/2”			**EV2CC50X102**	**191,382**
	108	4-1/4”					**EV2CC50X108**	**203,613**
	114	4-1/2”	114,30	4”	100	110	**EV2CC50X114**	**211,397**
						125	**EV2CC50X125**	**284,315**
	133						**EV2CC50X133**	**293,762**
			139,70	5”	125	140	**EV2CC50X140**	**313,844**
	159	6-1/4”	159			160	**EV2CC50X160**	**341,767**

IT-FLEX SYSTEM COVER
1B SHAPE ELBOWS (with thickness loss)

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **9** mm		Thickness **13** mm		Thickness **19** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4”										
7,93	8	5/16”										
9,52	10	3/8”	10,10	1/8”	6							
12,70	12	1/2”										
	14		13,60	1/4”	8							
15,87	16	5/8”				16						
	18		17,20	3/8”	10		EV2CCB09X018	34,673	EV2CCB13X018	34,953	EV2CCB19X018	38,076
19,05		3/4”				20						
22,22	22	7/8”	21,30	1/2”	15		EV2CCB09X022	36,301	EV2CCB13X022	36,605	EV2CCB19X022	40,042
25,40		1”				25						
			26,90	3/4”	20							
28,57	28	1-1/8”					EV2CCB09X028	37,413	EV2CCB13X028	37,694	EV2CCB19X028	41,513
						32						
34,92	35	1-3/8”	33,70	1”	25		EV2CCB09X035	37,717	EV2CCB13X035	38,255	EV2CCB19X035	42,860
						40						
41,27	42	1-5/8”	42,40	1-1/4”	32		EV2CCB09X042	40,019	EV2CCB13X042	40,693	EV2CCB19X042	44,601
			48,30	1-1/2”	40		EV2CCB09X048	41,952	EV2CCB13X048	42,794	EV2CCB19X048	46,455
						50						
53,97	54	2”					EV2CCB09X054	44,714	EV2CCB13X054	44,973	EV2CCB19X054	48,342
			60,30	2”	50		EV2CCB09X060	46,107	EV2CCB13X060	46,826	EV2CCB19X060	50,184
	64					63						
	70											
	76,10		76,10	2-1/2”	65	75	EV2CCB09X076	53,643	EV2CCB13X076	54,272	EV2CCB19X076	59,193
	80											
	88,90		88,90	3”	80	90	EV2CCB09X089	56,545	EV2CCB13X089	57,721	EV2CCB19X089	62,303
			101,3/104,3	3-1/2”			EV2CCB09X102	64,213	EV2CCB13X102	66,077	EV2CCB19X102	71,076
	108	4-1/4”					EV2CCB09X108	67,044	EV2CCB13X108	68,312	EV2CCB19X108	76,759
	114	4-1/2”	114,30	4”	100	110	EV2CCB09X114	70,491	EV2CCB13X114	73,715	EV2CCB19X114	82,106
						125	EV2CCB09X125	75,625	EV2CCB13X125	78,971	EV2CCB19X125	87,587
	133						EV2CCB09X133	78,365	EV2CCB13X133	81,678	EV2CCB19X133	95,753
			139,70	5”	125	140	EV2CCB09X140	85,228	EV2CCB13X140	89,035	EV2CCB19X140	103,087
	159	6-1/4”	159			160	EV2CCB09X160	91,012	EV2CCB13X160	95,472	EV2CCB19X160	111,578

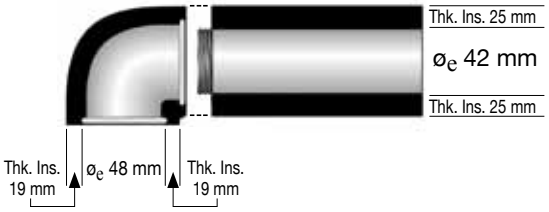
IT-FLEX SYSTEM COVER
1B SHAPE ELBOWS (with thickness loss)

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **25** mm		Thickness **32** mm		Thickness **40** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc	Code	Price €/pc	Code	Price €/pc
6,35	6	1/4"										
7,93	8	5/16"										
9,52	10	3/8"	10,10	1/8"	6							
12,70	12	1/2"										
	14		13,60	1/4"	8							
15,87	16	5/8"				16						
	18		17,20	3/8"	10		EV2CCB25X018	40,548	EV2CCB32X018	49,263	EV2CCB40X018	57,036
19,05		3/4"				20						
22,22	22	7/8"	21,30	1/2"	15		EV2CCB25X022	42,502	EV2CCB32X022	49,982	EV2CCB40X022	58,069
25,40		1"				25						
			26,90	3/4"	20							
28,57	28	1-1/8"					EV2CCB25X028	44,299	EV2CCB32X028	51,678	EV2CCB40X028	61,169
						32						
34,92	35	1-3/8"	33,70	1"	25		EV2CCB25X035	46,118	EV2CCB32X035	54,429	EV2CCB40X035	65,965
						40						
41,27	42	1-5/8"	42,40	1-1/4"	32		EV2CCB25X042	48,499	EV2CCB32X042	60,270	EV2CCB40X042	72,547
			48,30	1-1/2"	40		EV2CCB25X048	50,454	EV2CCB32X048	62,506	EV2CCB40X048	73,861
						50						
53,97	54	2"					EV2CCB25X054	52,947	EV2CCB32X054	63,786	EV2CCB40X054	79,095
			60,30	2"	50		EV2CCB25X060	55,182	EV2CCB32X060	68,717	EV2CCB40X060	82,846
	64					63						
	70											
	76,10		76,10	2-1/2"	65	75	EV2CCB25X076	64,898	EV2CCB32X076	79,938	EV2CCB40X076	102,525
	80											
	88,90		88,90	3"	80	90	EV2CCB25X089	71,986	EV2CCB32X089	83,105	EV2CCB40X089	125,574
			101,3/104,3	3-1/2"			EV2CCB25X102	83,801	EV2CCB32X102	99,729	EV2CCB40X102	149,407
	108	4-1/4"					EV2CCB25X108	89,035	EV2CCB32X108	107,378	EV2CCB40X108	160,887
	114	4-1/2"	114,30	4"	100	110	EV2CCB25X114	97,381	EV2CCB32X114	117,374	EV2CCB40X114	169,063
						125	EV2CCB25X125	103,188	EV2CCB32X125	133,593	EV2CCB40X125	182,766
	133						EV2CCB25X133	105,974	EV2CCB32X133	138,692	EV2CCB40X133	210,869
			139,70	5"	125	140	EV2CCB25X140	112,915	EV2CCB32X140	147,509	EV2CCB40X140	238,981
	159	6-1/4"	159			160	EV2CCB25X160	124,170	EV2CCB32X160	169,850	EV2CCB40X160	259,436

IT-FLEX SYSTEM COVER
1B SHAPE ELBOWS (with thickness loss)

COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness **50** mm	
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	Price €/pc
6,35	6	1/4"						
7,93	8	5/16"						
9,52	10	3/8"	10,10	1/8"	6			
12,70	12	1/2"						
	14		13,60	1/4"	8			
15,87	16	5/8"				16		
	18		17,20	3/8"	10		EV2CCB50X018	67,414
19,05		3/4"				20		
22,22	22	7/8"	21,30	1/2"	15		EV2CCB50X022	78,613
25,40		1"				25		
			26,90	3/4"	20			
28,57	28	1-1/8"					EV2CCB50X028	81,769
						32		
34,92	35	1-3/8"	33,70	1"	25		EV2CCB50X035	85,284
						40		
41,27	42	1-5/8"	42,40	1-1/4"	32		EV2CCB50X042	94,394
			48,30	1-1/2"	40		EV2CCB50X048	96,988
						50		
53,97	54	2"					EV2CCB50X054	99,380
			60,30	2"	50		EV2CCB50X060	112,882
	64					63		
	70							
	76,10		76,10	2-1/2"	65	75	EV2CCB50X076	129,381
	80							
	88,90		88,90	3"	80	90	EV2CCB50X089	162,134
			101,3/104,3	3-1/2"			EV2CCB50X102	191,382
	108	4-1/4"					EV2CCB50X108	203,613
	114	4-1/2"	114,30	4"	100	110	EV2CCB50X114	211,397
						125	EV2CCB50X125	284,315
	133						EV2CCB50X133	293,762
			139,70	5"	125	140	EV2CCB50X140	313,844
	159	6-1/4"	159			160	EV2CCB50X160	341,767

Indications for choosing the SYSTEM COVER shape 1/B elbow (type with insulation thickness loss) for fittings threaded in cast iron.



NB: In order to maintain a constant external dimension of the insulation system, the diagram shows how, when ordering the insulation for elbows and T pieces, the following factors should be taken into consideration:

1) The increase in diameter of the pipework (elbows and T pieces).

2) The reduction of the insulation thickness on the pipework (elbows and T pieces).

IT-FLEX SYSTEM COVER
ELASTOMERIC FOAM SHEET COATED WITH A FOIL IN PVC+ALU+UV PROTECTION FILM - SHEETS H 1 m

NON-ADHESIVE SHEETS				SELF-ADHESIVE SHEETS			
Code	Thickness (mm)	Roll (m^2/box)	**Price €/m^2**	Code	Thickness (mm)	Roll (m^2/box)	**Price €/m^2**
EV1CBL06	6	30	**45,735**	**EV1CBLA06**	6	30	**52,333**
EV1CBL10	9	20	**52,607**	**EV1CBLA10**	9	20	**59,638**
EV1CBL13	13	14	**56,368**	**EV1CBLA13**	13	14	**63,723**
EV1CBL19	19	10	**63,673**	**EV1CBLA19**	19	10	**71,677**
EV1CBL25	25	8	**74,938**	**EV1CBLA25**	25	8	**83,591**
EV1CBL32	32	6	**88,175**	**EV1CBLA32**	32	6	**97,802**

Packaging dimensions: 108 x 54 x 54 cm
Packaging volume = 0,31 m^3

NB: FOR EXTERNAL APPLICATIONS IT IS ADVISABLE TO ATTACH THE SYSTEM USING SMALL PLASTIC TACKS AS ILLUSTRATED IN THE PHOTOGRAPHS. IT IS ALSO RECOMMENDED TO SEAL THE SYSTEM WITH ALUMINIUM COLOURED MARINE SILICONE SEALANT.




DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

IT-FLEX SYSTEM COVER

ULTRASOLAR 2

Composite systems consisting of a single or two twinned tubes in corrugated stainless steel (AISI 316L), covered with 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 both black and a brick red colour which helps to enhance the aesthetic appearance of systems.

ULTRASOLAR 2

Technical data sheet

Rev. 01/15

MATERIAL	Composite system in rolls consisting of 2 twinned tubes in corrugated stainless steel AISI 316 L, IT-FLEX AT R insulation covering and a sensor cable.
PRODUCT SPECIFICATION	**Steel:** In accordance with the European Standard EN EN 10088-2 / DIN 1744: 1.4404 **Insulation:** In accordance with the European Standard EN 143044
PRODUCT RANGE	Tubes in rolls in lengths of 10-15-20-25 m, bobbins in lengths of 50-100-150 m in DN 16-20-25. Insulation thickness of 10 mm.
PRODUCT APPLICATION	The production of thermal fluid distribution systems in solar thermal applications or applications carrying high temperature fluids (+150 °C in continuous operation; +180 °C in intermittent operation). It is also suitable for external applications.

TECHNICAL SPECIFICATIONS OF THE CORRUGATED STAINLESS STEEL AISI 316 L TUBE

DN TYPE	THICKNESS (mm)	EXTERNAL DIAMETER (mm)	TOLERANCE (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

MAIN PROPERTIES	REFERENCE VALUES	TEST STANDARDS
SERVICE TEMPERATURE OF TRANSPORTED FLUIDS	- 40 °C* + 150 °C	EN 147607
THERMAL CONDUCTIVITY λ AT A MEAN TEMPERATURE OF + 40 °C	≤ 0,038 W/m•K	EN ISO 8497
FIRE PERFORMANCE EUROCLASS	E_L	EN 13501-1
WATER ABSORPTION	< 0.1 kg/m^2	EN 1432 / EN 1609
OZONE RESISTANCE	EXCELLENT	ISO 7326
UV RESISTANCE	EXCELLENT	UNI ISO 4892-2
ANTIMICROBIAL BEHAVIOUR	MEETS TEST REQUIREMENTS	AATCC TEST METHOD 30
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468

TECHNICAL SPECIFICATIONS OF THE EXTERNAL INSULATION

TYPE	FILM IN LDPE co extruded	
COLOUR	BRICK	
THICKNESS	≅ 350 µm	
ELONGATION AT BREAK (%)	200 MD / 550 TD	ISO 527-3

TECHNICAL SPECIFICATIONS OF SENSOR CABLE

TYPE	Silicone rubber (double thread)	
SERVICE TEMPERATURE	from - 60 °C to +180 °C	
SECTION	1 mm^2	EN ISO 12086
NOMINAL TENSION	Uo/U 300 / 500 V	

*** NOTE: for lower temperature applications please contact our technical dept.**
Documents and certifications are available upon registration on our website: www.evocell.it
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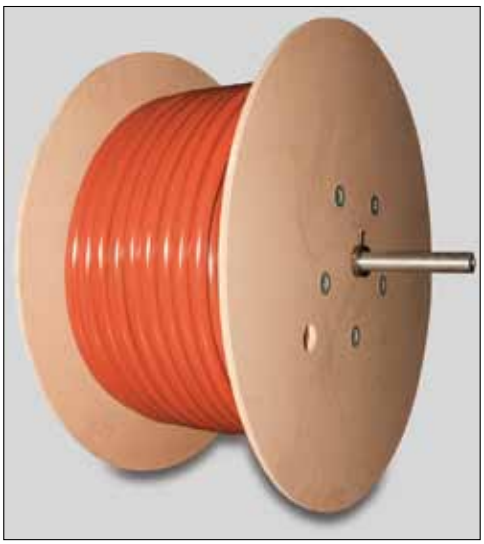
All normatives quoted in this document are updated to the latest issued versions.

ULTRASOLAR 2

2 TWINNED TUBES IN CORRUGATED STAINLESS STEEL AISI 316 WITH AN INSULATION COVERING OF 10 mm.

DN TYPE	THK. STEEL TUBE (mm)	EXT. DIAMETER-STEEL TUBE	ROLL LENGTH (m)	BOBBIN 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



NEW EVOLUTION

WINDING MACHINE FOR THE ULTRASOLAR 2 PRODUCT RANGE

This device is ideal for the packaging of the **ULTRASOLAR 2** product range. It is easy to use, ideal for cutting the material to required lengths and winding it into rolls, facilitating transport, storage and on-site management.

WINDING MACHINE STRUCTURE (figures 1 and 2)

Its load bearing structure allows it to support a bobbin holding up to 250 m of the **EUROSOLAR 2** product (of both the single and double tube versions).

COMPONENTS

1. **Cutter** - This allows the products to be easily cut. It's safe, precise and cuts without damaging the product.
2. **Meter counter** – This calculates when the required measurement should be cut, and measures both the supply and the return.
3. **Roling wheel** – This helps maintain the correct tension of the material also during the rotation stage when making the rolls.

OPERATING STAGES (sequence of figures from 3-6)

- Insert the metal bar in the hole positioned in the centre of the **ULTRASOLAR 2** bobbin.
- Raise the structure by the handgrip until the metal bar of the bobbin is hooked.

  NB : The clasping system is made with 2 hooks, a lower one (for coils up to 150 meters in length) and an upper one (for coils up to 250 meters).
- Disengage the brake lock (by removong the pin) in order to avoid tension loss during the rolling of the coil.
- Attach the winder after having hooked the bobbin on (to ensure that the operator avoids lifting excessive amounts of weight (Ref. Legislative decree 626/94 - weights greater than 30 Kg).
- Insert the **ULTRASOLAR 2** product into the specific lane through the cutter and the meter counter.
- Fasten the head of the product with the specific rod onto the rolling wheel.
  NB: Choose and fasten the rod based on the channeling which corresponds to the diameter of the product to be cut.
- The meter counter is programmed to control both the supply and the return (to avoid any errors made by the operator).
- The rolling wheel includes a pawl in order to prevent loss of tension of the material during the rolling stage.
- After the automatic start-up and when the required roll length has been reached, rotation will cease, allowing for the cutting process to begin.
- The cut roll will remain taut and can be extracted by sliding off one side of the rolling wheel. The material can now be stored, ready for packing and without any changes to the acquired structure.

Characteristics of the cutter: Power 2 KW – Rotation 3700 rpm/min

THE EVOLUTION OF ELASTOMERIC TECHNOLOGY

ACCESSORIES

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

ULTRASOLAR 2

2015/1 PRICE LIST

ULTRASOLAR 2

COMPOSITE SYSTEM IN ROLLS IN COMPLETE WITH 2 TWINNED TUBES IN STAINLESS STEEL AISI 316

BOBBINS

Code	Description	Ø	m/bob	€/m
ULTRAS216150R	Ultrasolar 2 **DN16** SP10 150 m. Red	16	150	**55,11**
ULTRAS216100R	Ultrasolar 2 **DN16** SP10 100 m. Red	16	100	**56,76**
ULTRAS216050R	Ultrasolar 2 **DN16** SP10 50 m. Red	16	50	**57,86**
ULTRAS220100R	Ultrasolar 2 **DN20** SP10 100 m. Red	20	100	**65,05**
ULTRAS220050R	Ultrasolar 2 **DN20** SP10 50 m. Red	20	50	**67,09**
ULTRAS225100R	Ultrasolar 2 **DN25** SP10 100 m. Red	25	100	**81,55**
ULTRAS225050R	Ultrasolar 2 **DN25** SP10 50 m. Red	25	50	**83,99**

ROLLS

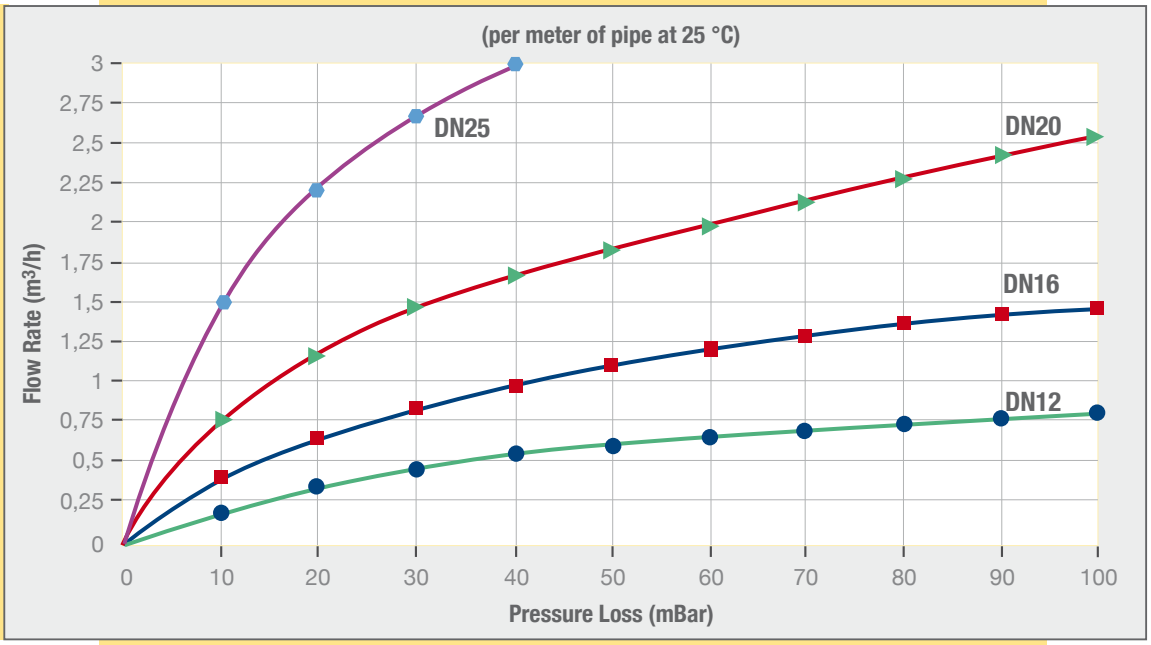
Code	Description	Ø	m/roll	€/m
ULTRAS216010R	Ultrasolar 2 **DN16** SP10 10 m. Red	16	10	**61,18**
ULTRAS216015R	Ultrasolar 2 **DN16** SP10 15 m. Red	16	15	**60,06**
ULTRAS216020R	Ultrasolar 2 **DN16** SP10 20 m. Red	16	20	**58,96**
ULTRAS216025R	Ultrasolar 2 **DN16** SP10 25 m. Red	16	25	**58,15**
ULTRAS220010R	Ultrasolar 2 **DN20** SP10 10 m. Red	20	10	**72,22**
ULTRAS220015R	Ultrasolar 2 **DN20** SP10 15 m. Red	20	15	**70,93**
ULTRAS220020R	Ultrasolar 2 **DN20** SP10 20 m. Red	20	20	**69,63**
ULTRAS220025R	Ultrasolar 2 **DN20** SP10 25 m. Red	20	25	**68,62**
ULTRAS225015R	Ultrasolar 2 **DN25** SP10 15 m. Red	25	15	**88,88**
ULTRAS225020R	Ultrasolar 2 **DN25** SP10 20 m. Red	25	20	**87,25**
ULTRAS225025R	Ultrasolar 2 **DN25** SP10 25 m. Red	25	25	**86,03**

ULTRASOLAR 2

FITTINGS KIT WITH 4 PIECES

Code	Description	€/Kit
RACDN16-1M	Fittings KIT DN 16X1" MALE	145.57
RACDN16-1/2M	Fittings KIT DN 16X1/2" MALE	116,60
RACDN16-3/4M	Fittings KIT DN 16X3/4" MALE	111,83
RACDN20-1M	Fittings KIT DN 20X1" MALE	139,33
RACDN20-3/4M	Fittings KIT DN 20X3/4" MALE	136,40
RACDN25-1M	Fittings KIT DN 25X1" MALE	168,30
RACDN25-11/4M	Fittings KIT DN 25X1-1/4" MALE	154,73
RACDN16-15R	Fittings KIT DN 16X15 COPPER	123,93
RACDN16-2218R	Fittings KIT DN 16X22/18 COPPER	129,80
RACDN20-2218R	Fittings KIT DN 20X22/18 COPPER	149,60
RACDN25-2218R	Fittings KIT DN 25X22/18 COPPER	232,83
RACDN16-16	Fittings KIT DN 16 X DN16	173,43
RACDN20-20	Fittings KIT DN 20 X DN20	201,67
RACDN25-25	Fittings KIT DN 25 X DN25	286,37
RACDN16-1F	Fittings KIT DN 16X1" FEMALE	159,13
RACDN16-1/2F	Fittings KIT DN 16X1/2" FEMALE	104,50
RACDN16-3/4F	Fittings KIT DN 16X3/4" FEMALE	117,70
RACDN20-1F	Fittings KIT DN 20X1" FEMALE	149,23
RACDN20-3/4F	Fittings KIT DN 20X3/4" FEMALE	116,60
RACDN25-1F	Fittings KIT DN 25X1" FEMALE	225,87
RACDN16-22C	Fittings KIT DN 16X22 COPPER ELBOW	273,53
RACDN16-3/4C	Fittings KIT DN 16X3/4" FEMALE ELBOW	217,80
RACDN16-18	Fittings KIT DN 16 X 18 COPPER	217,80
RACDN16-22	Fittings KIT DN 16 X 22 COPPER	231,00
RACDN20-18	Fittings KIT DN 20 X 18 COPPER	244,20
RACDN20-22	Fittings KIT DN 20 X 22 COPPER	249,33
RACDN25-18	Fittings KIT DN 25 X 18 COPPER	267,30
RACDN25-22	Fittings KIT DN 25 X 22 COPPER	272,80
RACTEE16-22R	Fittings KIT TEE 16X22 COPPER	315,33

Table of pressure losses of corrugated stainless steel AISI 316 L pipes.



ULTRASOLAR 2

IT-FLEX TUBE SUPPORTS

- ★ Closed-cell microcellular structure
- ★ Excellent insulation performance
- ★ High resistance to water vapour diffusion
- ★ High mechanical resistance
- ★ High compression resistance
- ★ Quick and esay to install
- ★ λ at 10 °C $\leq$ 0,036 W/m•K

IT-FLEX TUBE SUPPORTS

Technical Data Sheet

Rev. 01/15

MATERIAL	Expanded polyurethane foam (PIR) coupled to flexible elastomeric foam (FEF) and external cover in PVC and/or PVC-ALU-UV resistant protective film.
PRODUCT SPECIFICATIONS	Composite thermal insulation to optimize connections between the support brackets and the insulated pipeworks.
PRODUCT RANGE	Tube supports with diameters from 18 to 170 mm, and thicknesses from 13 to 32 mm. Length 50 mm.
PRODUCT APPLICATION	Mechanical protection, condensation prevention and to safeguard the properties of the insulation material on pipworks in general.
MAIN CHARACTERISTICS	The PIR foam uses CO_2 as the expanding agent.

Technical Information	Reference data	Test Standards
TECHNICAL CHARACTERISTICS OF THE POLYURETHANE INSULATION		
DENSITY	approx. 60 - 80 kg m^3*	ISO 845
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	 + 120 °C - 180 °C	
THERMAL CONDUCTIVITY λ	At mean temp. of 10 °C 0,036 W/m•K	ASTM C 518
REACTION TO FIRE	B2	DIN 4102
WATER VAPOUR TRANSMISSION	25 (+/- 10) / 30 (+/- 10) g/m^2 - 24 h { 80 kg m^3 / 60 kg m^3	ISO 1663
WATER ABSORPTION	5%	ISO 2896
% OF CLOSSED CELLS approx. 60 - 80 kg m^3*	92%	ASTM D 2856
COMPRESSION RESISTANCE Parallel / Perpendicular	kPa 670 (+/- 80) / 440 (+/- 120) } 60 kg m^3 970 (+/- 120) / 670 (+/- 150) } 80 kg m^3	ISO 844
TENSILE STRENGTH Parallel / Perpendicular	kPa 860 (+/- 90) / 710 (+/- 130) } 60 kg m^3 1280 (+/- 160) / 1000 (+/- 220) } 80 kg m^3	ASTM D 1623
SHEAR STRENGTH	kPa 350 (+/- 60) ⟶ 60 kg m^3 kPa 550 (+/- 80) ⟶ 80 kg m^3	ASTM C 273
DIMENSION STABILITY Length - Width - Thickness	at - 25 °C x 48 h +0,5% +0,5% at + 100 °C x 48 h +1,0% +1,0%	ISO 2796

*** NB: PIR density of 60 kg/m^3 for pipe supports up to a diameter of 35 mm.**
PIR density of 80 kg/m^3 for pipe supports with diameters from 42 mm to 219 mm.

For the elastomeric parts refer to the IT-FLEX C1 technical characteristics.

TECHNICAL DATA OF EXTERNAL COATING :

TYPE	FILM IN PVC SCRATCH PROOF / ANTI UV	COMPOSITE PVC+ALU+UV RESISTANT PROTECTION COVERING	
COLOUR	BLACK RAL 9005	ALUMINIUM	
RESISTANCE TO VAPOUR WATER DIFFUSION μ	≥ 15.000	≥ 15.000	EN ISO 12086
OZONE RESISTANCE	EXCELLENT	EXCELLENT	ISO 7325
UV RESISTANCE	EXCELLENT	EXCELLENT	UNI ISO 4892 - 2

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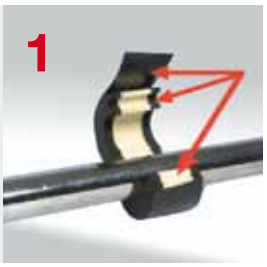
Mounting instructions:

1 - 1 - Mount the support onto the piping and glue the surfaces with the AB 850 adhesive (⟶)

2 - Close and seal the support.



IT-FLEX TUBES SUPPORTS WITH EXTERNAL BLACK PVC COATING

Thickness 13 mm			Thickness 19 mm			Thickness 25 mm			Thickness 32 mm		
ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc
18	EV3SUP13x018	7,547	18	EV3SUP19x018	9,625	18	EV3SUP25x018	10,625	18	EV3SUP32x018	16,578
22	EV3SUP13x022	7,873	22	EV3SUP19x022	10,625	22	EV3SUP25x022	11,928	22	EV3SUP32x022	16,634
28	EV3SUP13x028	9,367	28	EV3SUP19x028	12,141	28	EV3SUP25x028	13,826	28	EV3SUP32x028	20,498
35	EV3SUP13x035	11,018	35	EV3SUP19x035	13,815	35	EV3SUP25x035	16,072	35	EV3SUP32x035	24,845
42	EV3SUP13x042	12,131	42	EV3SUP19x042	16,062	42	EV3SUP25x042	16,151	42	EV3SUP32x042	24,924
48	EV3SUP13x048	12,231	48	EV3SUP19x048	16,072	48	EV3SUP25x048	19,408	48	EV3SUP32x048	25,024
54	EV3SUP13x054	13,826	54	EV3SUP19x054	19,397	54	EV3SUP25x054	19,442	54	EV3SUP32x054	33,191
60	EV3SUP13x060	16,062	60	EV3SUP19x060	19,476	60	EV3SUP25x060	24,418	60	EV3SUP32x060	33,212
64	EV3SUP13x064	16,072	64	EV3SUP19x064	19,488	64	EV3SUP25x064	24,451	64	EV3SUP32x064	33,303
67	EV3SUP13x067	16,151	67	EV3SUP19x067	24,407	67	EV3SUP25x067	24,486	67	EV3SUP32x067	33,381
70	EV3SUP13x070	20,284	70	EV3SUP19x070	25,373	70	EV3SUP25x070	25,395	70	EV3SUP32x070	33,381
76	EV3SUP13x076	20,296	76	EV3SUP19x076	25,395	76	EV3SUP25x076	33,617	76	EV3SUP32x076	48,904
80	EV3SUP13x080	20,375	80	EV3SUP19x080	25,395	80	EV3SUP25x080	33,718	80	EV3SUP32x080	48,915
89	EV3SUP13x089	25,305	89	EV3SUP19x089	25,462	89	EV3SUP25x089	33,797	89	EV3SUP32x089	48,972
102	EV3SUP13x102	33,864	102	EV3SUP19x102	33,954	102	EV3SUP25x102	34,055	102	EV3SUP32x102	49,386
108	EV3SUP13x108	33,942	108	EV3SUP19x108	34,111	108	EV3SUP25x108	49,386	108	EV3SUP32x108	49,431
114	EV3SUP13x114	33,954	114	EV3SUP19x114	34,190	114	EV3SUP25x114	49,589	114	EV3SUP32x114	49,466
125	EV3SUP13x125	44,692	125	EV3SUP19x125	61,854	125	EV3SUP25x125	68,638	125	EV3SUP32x125	79,151
133	EV3SUP13x133	55,699	133	EV3SUP19x133	63,202	133	EV3SUP25x133	78,129	133	EV3SUP32x133	81,566
140	EV3SUP13x140	57,732	140	EV3SUP19x140	67,954	140	EV3SUP25x140	81,566	140	EV3SUP32x140	87,294
160	EV3SUP13x160	67,964	160	EV3SUP19x160	71,334	160	EV3SUP25x160	88,340	160	EV3SUP32x160	95,124

IT-FLEX TUBE SUPPORTS WITH EXTERNAL PROTECIVE COATING IN PVC/ALU/UV RESISTANT FILM

Thickness 13 mm			Thickness 19 mm			Thickness 25 mm			Thickness 32 mm		
ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc	ø piping (mm)	Code	€/pc
18	EV3SAU13x018	7,884	18	EV3SAU19x018	10,053	18	EV3SAU25x018	11,108	18	EV3SAU32x018	17,331
22	EV3SAU13x022	8,233	22	EV3SAU19x022	11,108	22	EV3SAU25x022	12,468	22	EV3SAU32x022	17,420
28	EV3SAU13x028	9,782	28	EV3SAU19x028	12,703	28	EV3SAU25x028	14,455	28	EV3SAU32x028	21,419
35	EV3SAU13x035	11,523	35	EV3SAU19x035	14,433	35	EV3SAU25x035	16,802	35	EV3SAU32x035	25,968
42	EV3SAU13x042	12,692	42	EV3SAU19x042	16,792	42	EV3SAU25x042	16,881	42	EV3SAU32x042	26,058
48	EV3SAU13x048	12,793	48	EV3SAU19x048	16,802	48	EV3SAU25x048	20,284	48	EV3SAU32x048	26,159
54	EV3SAU13x054	14,455	54	EV3SAU19x054	20,274	54	EV3SAU25x054	20,340	54	EV3SAU32x054	34,695
60	EV3SAU13x060	16,802	60	EV3SAU19x060	20,363	60	EV3SAU25x060	25,518	60	EV3SAU32x060	34,729
64	EV3SAU13x064	16,870	64	EV3SAU19x064	20,375	64	EV3SAU25x064	25,563	64	EV3SAU32x064	34,819
67	EV3SAU13x067	16,926	67	EV3SAU19x067	25,497	67	EV3SAU25x067	25,598	67	EV3SAU32x067	33,650
70	EV3SAU13x070	21,217	70	EV3SAU19x070	26,529	70	EV3SAU25x070	26,541	70	EV3SAU32x070	34,909
76	EV3SAU13x076	21,250	76	EV3SAU19x076	26,541	76	EV3SAU25x076	35,156	76	EV3SAU32x076	51,127
80	EV3SAU13x080	21,295	80	EV3SAU19x080	26,564	80	EV3SAU25x080	35,246	80	EV3SAU32x080	51,150
89	EV3SAU13x089	26,451	89	EV3SAU19x089	26,630	89	EV3SAU25x089	35,325	89	EV3SAU32x089	51,218
102	EV3SAU13x102	35,414	102	EV3SAU19x102	35,493	102	EV3SAU25x102	35,594	102	EV3SAU32x102	51,633
108	EV3SAU13x108	35,482	108	EV3SAU19x108	35,672	108	EV3SAU25x108	51,633	108	EV3SAU32x108	51,678
114	EV3SAU13x114	35,526	114	EV3SAU19x114	35,728	114	EV3SAU25x114	51,846	114	EV3SAU32x114	51,723
125	EV3SAU13x125	46,714	125	EV3SAU19x125	64,662	125	EV3SAU25x125	71,761	125	EV3SAU32x125	82,757
133	EV3SAU13x133	58,226	133	EV3SAU19x133	66,077	133	EV3SAU25x133	81,678	133	EV3SAU32x133	85,273
140	EV3SAU13x140	60,361	140	EV3SAU19x140	71,042	140	EV3SAU25x140	85,273	140	EV3SAU32x140	91,270
160	EV3SAU13x160	71,053	160	EV3SAU19x160	74,580	160	EV3SAU25x160	92,360	160	EV3SAU32x160	99,448

NOTE: The metal collars are not supplied by Evocell srl.

IT-FLEX ACCESSORIES

- ★ Adhesive elastomeric tapes
- ★ Self-adhesive insulation tapes in PE and PVC
- ★ Aluminium self-adhesive insulation tapes
- ★ Aluminium endcappings
- ★ Accessories for installing foils and PVC T fittings
- ★ Glues
- ★ Detergents
- ★ Elastomeric paints

CNX ADHESIVE

Coverage of adhesive by area	approx. 3 - 4	mq/kg
Coverage of adhesive on pipework	thickness mm	m/kg
	6	200
	9	130
	13	90
	19	40
	25	30
	32	20
Drying time before gluing	from 5/10 minutes at a room-temperature of 20 °C	

ALUMINIUM JOINTING TAPES

TECHNICAL DATA

Working temperature range	from - 40 °C to + 80 °C
Thickness	mm 0,030
Elongation at break	3%
Fire behaviour	Nonflammable (DIN 4102 Norm)
Storage conditions	at approx. 20/25 °C with relative air humidity max 65%

PVC JOINTING TAPES

TECHNICAL DATA

Fire behaviour	B1 (DIN 4102)
Thickness	mm 0,10
Tensile strength	MPa 15
Elongation at break	125%
Temperature limit	+ 80 °C
Storage conditions	at approx. 20/25 °C with relative air humidity max 65%

SELF-ADHESIVE ELASTOMERIC TAPES

Working temperature range from - 40 °C to + 86 °C

Dimensions: Thickness 3 mm. Width 50 mm. Length 10 m.

COLOURED ELASTOMERIC PAINTS

TECHNICAL DATA

Available colours	Grey - White Blue - Red on request
Density	1,25 - 1,35 Kg/dm3 at 20 °C
Temperature range	from - 50 °C to + 120 °C
Application temperature	from 5 °C to + 30 °C
Drying time	1 - 2 hours
Coverage by area	5 mq/l
Packaging	3 l tins or 20 l tubs

Performance on insulating pipes m/l

Diameter mm	thickness 6 mm	thickness 9 mm	thickness 13 mm	thickness 19 mm	thickness 25 mm	thickness 32 mm
6	ml 71	ml 46				
8	ml 64	ml 43				
10	ml 58	ml 42	ml 35	ml 25		
12	ml 53	ml 36	ml 34	ml 24		
14	ml 49	ml 31	ml 34	ml 23		
16	ml 46	ml 29	ml 28	ml 22		
18	ml 43	ml 25	ml 26	ml 20	ml 15	ml 11
20	ml 41					
22	ml 38	ml 22	ml 23	ml 18	ml 14	ml 10
25	ml 35					
27	ml 33	ml 20	ml 20	ml 16	ml 13	ml 9
34	ml 28	ml 18	ml 16	ml 15	ml 12	ml 9
42	ml 23	ml 18	ml 16	ml 14	ml 11	ml 8
48		ml 16	ml 15	ml 13	ml 11	ml 8
54		ml 15	ml 14	ml 12	ml 10	ml 7
60		ml 14	ml 13	ml 11	ml 10	ml 7
70		ml 13	ml 11	ml 10	ml 9	ml 6
76		ml 12	ml 10	ml 9	ml 8	ml 6
89		ml 11	ml 9	ml 9	ml 8	ml 6
102		ml 10	ml 9	ml 8	ml 7	ml 5
108		ml 9	ml 8	ml 8	ml 7	ml 5
114		ml 8	ml 8	ml 7	ml 6	ml 5
127			ml 7	ml 7	ml 6	ml 5
134			ml 7	ml 6	ml 5	ml 4
140			ml 6	ml 5	ml 5	ml 4
160			ml 6	ml 5	ml 4	ml 5

NB: For greater protection it is advisable to apply 2 coats of paint.
The first hand should be diluted with approx. 10% of water.

ALUMINIUM ENDCAPPINGS

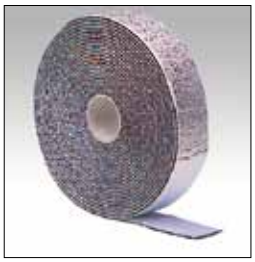
mm 18 for insulating pipes with a diameter between 24 and 34 mm

mm 23 for insulating pipes with a diameter between 43 and 49 mm

mm 28 for insulating pipes with a diameter between 61 and 90 mm

mm 38 for insulating pipes with a diameter between 102 and 115 mm

IT-FLEX - SELF-ADHESIVE ELASTOMERIC TAPES



Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRON3	10	50	24	**15,470**
EV8NASTRON315	15	50	12	**21,658**
EV8NASTRON3HT	10	50	24	**24,937**
EV8NASTRON3AT	10	50	24	**22,440**

IT-FLEX PE AL- SELF-ADHESIVE ELASTOMERIC TAPES

Thickness 1,5 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTROPEAL	25	50	24	**33,600**

IT-FLEX TRIPLEX - SELF-ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTROTRI	10	50	24	**17,700**

IT-FLEX UV PROTECTION - SELF-ADHESIVE ELASTOMERIC TAPES

Thickness 3 mm

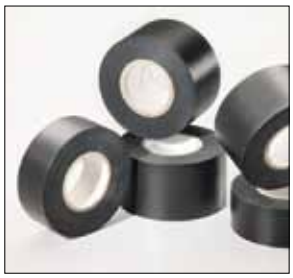
Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTROUV	10	50	24	**14,800**

IT-FLEX COVER SELF-ADHESIVE TAPE

Thickness 230 µm

Code	Dimensions Width (mm) x Length (m)	Packaging content (pc/box)	Prezzo €/pc
EV8NASTCOVE25	25 x 50	48	**31,685**
EV8NASTCOVE50	50 x 50	24	**64,584**

Packaging dimensions: 44 x 44 x 31 cm - Packaging volume = 0,06 m3



IT-FLEX - PVC SELF-ADHESIVE JOINTING TAPES

Code	Colour	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRNCN25	Nero	25	25	96	**4,510**
EV8NASTRNCN38	Nero	25	38	60	**6,854**
EV8NASTRNCG25	Grigio	33	25	90	**9,147**
EV8NASTRNCG50	Grigio	33	50	18	**17,504**

IT-FLEX C1 R - WHITE PVC SELF-ADHESIVE JOINTING TAPES

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRNCB25	25	38	60	**7,850**

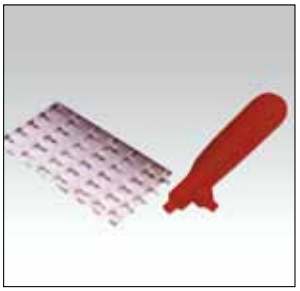
IT-FLEX - ALUMINIUM JOINTING TAPES

Code	Roll length (m)	Roll width (mm)	Packaging content (pc/box)	Price €/roll
EV8NASTRNCA25	50	25	Loose	**16,090**
EV8NASTRNCA50	50	50	Loose	**29,204**

IT-FLEX - ALUMINIUM ENDCAPPINGS

Code	ø Piping from mm - to mm	Roll length (mm)	Packaging content (pc/box)	Price €/pc
EV8TA18	22 - 34	10	5	**8,552**
EV8TA23	43 - 49	10	5	**8,884**
EV8TA28	61 - 90	10	5	**9,828**
EV8TA38	102 - 115	10	5	**12,592**

IT-FLEX - VARIOUS ACCESSORIES



Code	Description	Packaging content (pc)	Price €/pc
EV8PNT	Straight awl	1	**7,852**
EV8CHIODINI	Plastic tacks	1000	**11,682**

IT-FLEX - GLUES, DETERGENTS, PAINTS

Code	Description	Packaging content (pc)	Price €/pc
EV8AB850	850 g tin	12	**17,850**
EV8AB425	425 g tin	24	**11,179**
EV8AB425AT+Activator	425 g tin	24	**32,450**
EV8DETERGENTE	1 l can	12	**17,379**
EV8ACVEG-G	0,75 l can of grey elastomeric paint	loose	**42,543**
EV8ACVEG-B	0,75 l can of white elastomeric paint	loose	**42,543**

IT-FLEX
SPECIAL PROCESSED PARTS

- ★ Self-adhesive precut tubes with overlap
- ★ Self-adhesive precut tubes
- ★ Special pieces

On request, Evocell Srl is able to produce special custom made parts, seals, profiles etc., in the various insulation materials, based on customer's drawings, in a department fully equipped with die cutters, coupling and water jet cutting machines.

Labour costs only

INSULATION TUBES, 2 m IN LENGTH, WITH A SELF-ADHESIVE LONGITUDINAL STRIP AND OVERLAP.

Thickness **6 mm**			Thickness **9 mm**			Thickness **13 mm**		
Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m
EVPROD010	10	**1,794**	EVPROF010	10	**1,818**			
EVPROD012	12	**1,803**	EVPROF012	12	**1,829**	EVPROH012	12	**2,132**
EVPROD015	15	**1,818**	EVPROF015	15	**1,851**	EVPROH015	15	**2,166**
EVPROD018	18	**1,836**	EVPROF018	18	**2,066**	EVPROH018	18	**2,192**
EVPROD020	20	**2,056**	EVPROF020	20	**2,098**	EVPROH020	20	**2,486**
EVPROD022	22	**2,058**	EVPROF022	22	**2,100**	EVPROH022	22	**2,497**
EVPROD025	25	**2,142**	EVPROF025	25	**2,276**	EVPROH025	25	**2,600**
EVPROD028	28	**2,165**	EVPROF028	28	**2,302**	EVPROH028	28	**2,619**
EVPROD030	30	**2,331**	EVPROF030	30	**2,571**	EVPROH030	30	**2,885**
			EVPROF032	32	**2,626**	EVPROH032	32	**2,979**
EVPROD035	35	**2,628**	EVPROF035	35	**2,688**	EVPROH035	35	**2,980**
			EVPROF038	38	**2,809**	EVPROH038	38	**3,060**
						EVPROH040	40	**3,324**
EVPROD042	42	**2,714**	EVPROF042	42	**2,844**	EVPROH042	42	**3,325**
			EVPROF045	45	**2,872**	EVPROH045	45	**3,498**
			EVPROF048	48	**2,923**	EVPROH048	48	**3,637**
						EVPROH050	50	**3,773**
			EVPROF054	54	**3,101**	EVPROH054	54	**3,909**
			EVPROF057	57	**3,103**	EVPROH057	57	**3,999**
			EVPROF060	60	**3,104**	EVPROH060	60	**4,000**
			EVPROF064	64	**3,105**	EVPROH064	64	**4,917**
			EVPROF070	70	**3,177**	EVPROH070	70	**5,599**
			EVPROF076	76	**3,178**	EVPROH076	76	**5,600**
			EVPROF080	80	**3,243**	EVPROH080	80	**5,972**
			EVPROF089	89	**3,245**	EVPROH089	89	**6,219**
			EVPROF102	102	**3,601**	EVPROH102	02	**6,655**
			EVPROF108	108	**4,573**	EVPROH108	108	**6,916**
			EVPROF114	114	**4,847**	EVPROH114	114	**6,935**
						EVPROH125	125	**7,325**
						EVPROH133	133	**7,913**
			EVPROF140	140	**5,913**	EVPROH140	140	**7,914**
						EVPROH160	160	**7,915**

Labour costs only

INSULATION TUBES, 2 m IN LENGTH, WITH A SELF-ADHESIVE LONGITUDINAL STRIP AND OVERLAP.

Thickness **19 mm**			Thickness **25 mm**			Thickness **32 mm**		
Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m
EVPROM012	12	**3,630**						
EVPROM015	15	**3,640**						
EVPROM018	18	**3,687**	EVPROP018	18	**4,005**	EVPROT018	18	**5,518**
EVPROM020	20	**3.950**						
EVPROM022	22	**4,006**	EVPROP022	22	**4,110**	EVPROT022	22	**5,646**
EVPROM025	25	**4,206**						
EVPROM028	28	**4,219**	EVPROP028	28	**4,250**	EVPROT028	28	**5,966**
EVPROM030	30	**4,225**						
EVPROM032	32	**4,332**						
EVPROM035	35	**4,339**	EVPROP035	35	**4,757**	EVPROT035	35	**6,526**
EVPROM038	38	**4,430**						
EVPROM040	40	**4,520**						
EVPROM042	42	**4.740**	EVPROP042	42	**5,255**	EVPROT042	42	**6,933**
EVPROM045	45	**4,856**						
EVPROM048	48	**4,950**	EVPROP048	48	**5,552**	EVPROT048	48	**7,272**
EVPROM050	50	**5,280**						
EVPROM054	54	**5,417**	EVPROP054	54	**5,860**	EVPROT054	54	**7,506**
EVPROM057	57	**5,520**						
EVPROM060	60	**5,621**	EVPROP060	60	**6,544**	EVPROT060	60	**8,205**
EVPROM064	64	**5,622**	EVPROP064	64	**6,632**	EVPROT064	64	**8,206**
EVPROM070	70	**6,210**	EVPROP070	70	**6,847**	EVPROT070	70	**8,208**
EVPROM076	76	**6,215**	EVPROP076	76	**6,849**	EVPROT076	76	**9,056**
EVPROM080	80	**6,482**				EVPROT080	80	**9,476**
EVPROM089	89	**6,654**	EVPROP089	89	**9,415**	EVPROT089	89	**9,897**
EVPROM102	102	**6,807**	EVPROP102	102	**11.507**	EVPROT102	102	**13,827**
EVPROM108	108	**6,934**	EVPROP108	108	**11,509**			
EVPROM114	114	**7,190**	EVPROP114	114	**11,510**	EVPROT114	114	**13,828**
EVPROM125	125	**9,850**						
EVPROM133	133	**10,120**						
EVPROM140	140	**10,851**	EVPROP140	140	**12,383**	EVPROT140	140	**16,625**
EVPROM160	160	**10,852**	EVPROP160	160	**12,386**	EVPROT160	160	**16,626**
EVPROM170	170	**10,853**	EVPROP170	170	**12,490**	EVPROT170	170	**16,628**

Labour costs only

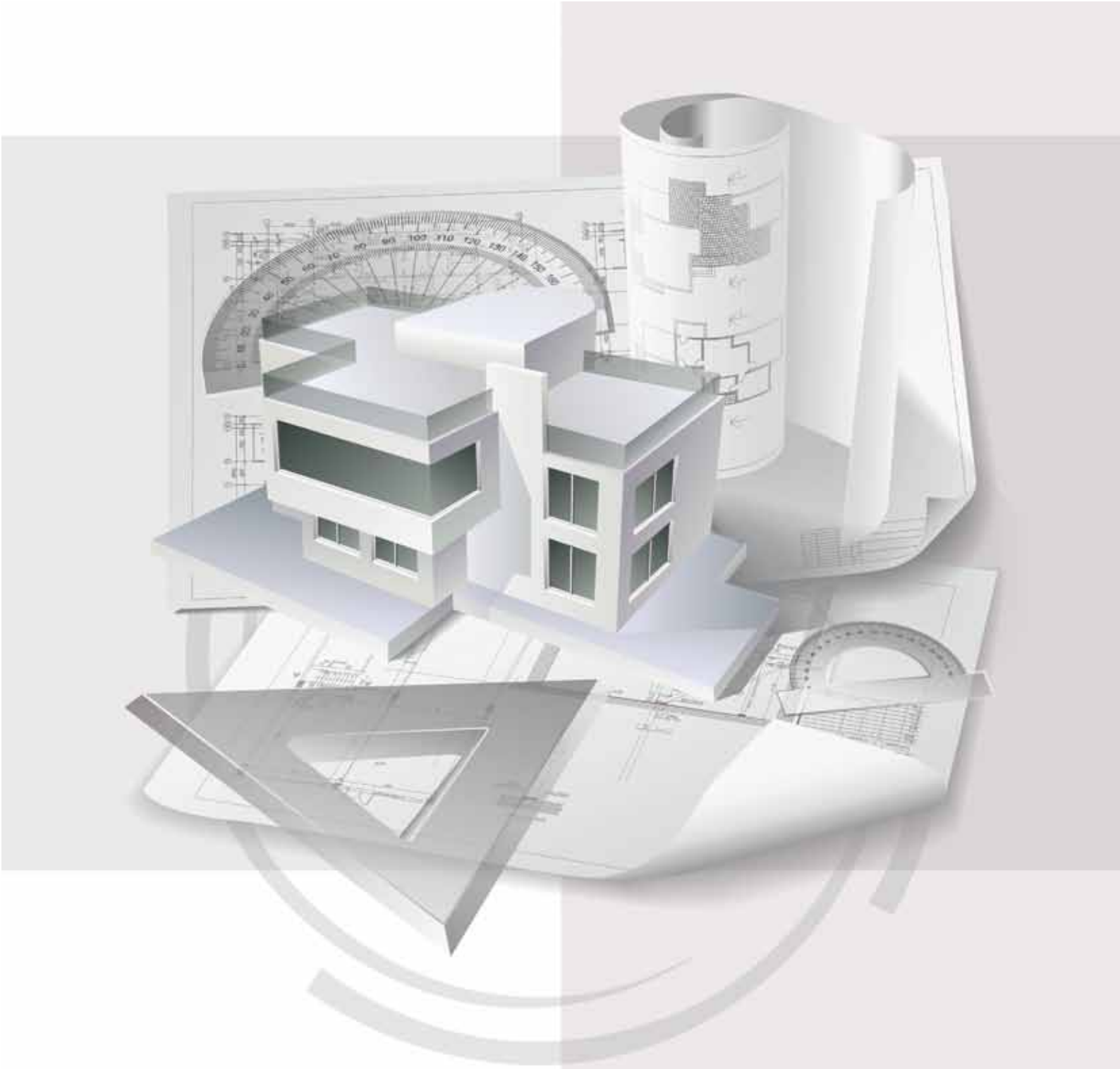
INSULATION TUBES, 2 m IN LENGTH, WITH A SELF-ADHESIVE LONGITUDINAL STRIP.

Thickness **6 mm**			Thickness **9 mm**			Thickness **13 mm**		
Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm)	Price €/m
EVPR2D010	10	**1,025**	EVPR2F010	10	**1,092**			
EVPR2D012	12	**1,042**	EVPR2F012	12	**1,110**	EVPR2H012	12	**1,280**
EVPR2D015	15	**1,092**	EVPR2F015	15	**1,160**	EVPR2H015	15	**1,379**
EVPR2D018	18	**1,112**	EVPR2F018	18	**1,176**	EVPR2H018	18	**1,435**
EVPR2D020	20	**1,132**	EVPR2F020	20	**1,207**	EVPR2H020	20	**1,507**
EVPR2D022	22	**1,140**	EVPR2F022	22	**1,241**	EVPR2H022	22	**1,534**
EVPR2D025	25	**1,168**	EVPR2F025	25	**1,289**	EVPR2H025	25	**1,584**
EVPR2D028	28	**1,196**	EVPR2F028	28	**1,308**	EVPR2H028	28	**1,615**
EVPR2D030	30	**1,297**	EVPR2F030	30	**1,445**	EVPR2H030	30	**1,642**
			EVPR2F032	32	**1,541**	EVPR2H032	32	**1,673**
EVPR2D035	35	**1,387**	EVPR2F035	35	**1,693**	EVPR2H035	35	**1,721**
			EVPR2F038	38	**1,743**	EVPR2H038	38	**1,792**
						EVPR2H040	40	**1,797**
EVPR2D042	42	**1,419**	EVPR2F042	42	**1,743**	EVPR2H042	42	**1,809**
			EVPR2F045	45	**1,868**	EVPR2H045	45	**1,909**
			EVPR2F048	48	**1,903**	EVPR2H048	48	**1,974**
						EVPR2H050	50	**2,022**
			EVPR2F054	54	**2,073**	EVPR2H054	54	**2,142**
			EVPR2F057	57	**2,174**	EVPR2H057	57	**2,268**
			EVPR2F060	60	**2,185**	EVPR2H060	60	**2,356**
			EVPR2F064	64	**2,317**	EVPR2H064	64	**2,420**
			EVPR2F070	70	**2,649**	EVPR2H070	70	**2,684**
			EVPR2F076	76	**2,704**	EVPR2H076	76	**2,877**
			EVPR2F080	80	**2,876**	EVPR2H080	80	**3,030**
			EVPR2F089	89	**2,883**	EVPR2H089	89	**3,382**
			EVPR2F102	102	**3,216**	EVPR2H102	102	**3,876**
			EVPR2F108	108	**4,105**	EVPR2H108	108	**4,610**
			EVPR2F114	114	**4,335**	EVPR2H114	114	**5,231**
						EVPR2H125	125	**5,788**
						EVPR2H133	133	**5,869**
			EVPR2F140	140	**5,323**	EVPR2H140	140	**5,984**
						EVPR2H160	160	**6,181**

Labour costs only

INSULATION TUBES, 2 m IN LENGTH, WITH A SELF-ADHESIVE LONGITUDINAL STRIP.

Thickness **19 mm**			Thickness **25 mm**			Thickness **32 mm**		
Code	Ø Piping (mm)	Price €/m	Code	Ø Piping (mm))	Price €/m	Code	Ø Piping (mm)	Price €/m
EVPR2M010	10	**1,671**						
EVPR2M012	12	**1,699**						
EVPR2M015	15	**1,738**						
EVPR2M018	18	**1,828**	EVPR2P018	18	**2,544**	EVPR2T018	18	**3,272**
EVPR2M020	20	**1,876**						
EVPR2M022	22	**1,887**	EVPR2P022	22	**2,643**	EVPR2T022	22	**3,310**
EVPR2M025	25	**1,988**						
EVPR2M028	28	**1,997**	EVPR2P028	28	**2,704**	EVPR2T028	28	**3,546**
EVPR2M030	30	**2,078**						
EVPR2M032	32	**2,159**						
EVPR2M035	35	**2,170**	EVPR2P035	35	**3,049**	EVPR2T035	35	**3,678**
EVPR2M038	38	**2,269**						
EVPR2M040	40	**2,360**						
EVPR2M042	42	**2,387**	EVPR2P042	42	**3,232**	EVPR2T042	42	**3,999**
EVPR2M045	45	**2,578**						
EVPR2M048	48	**2,586**	EVPR2P048	48	**3,496**	EVPR2T048	48	**4,263**
EVPR2M050	50	**2,668**						
EVPR2M054	54	**2,690**	EVPR2P054	54	**3,971**	EVPR2T054	54	**4,560**
EVPR2M057	57	**2,788**						
EVPR2M060	60	**2,926**	EVPR2P060	60	**4,414**	EVPR2T060	60	**4,942**
EVPR2M064	64	**3,302**	EVPR2P064	64	**4,504**	EVPR2T064	64	**5,021**
EVPR2M070	70	**3,420**	EVPR2P070	70	**4,569**	EVPR2T070	70	**5,492**
EVPR2M076	76	**3,580**	EVPR2P076	76	**4,878**	EVPR2T076	76	**5,697**
EVPR2M080	80	**4,214**				EVPR2T080	80	**5,798**
EVPR2M089	89	**4,327**	EVPR2P089	89	**5,347**	EVPR2T089	89	**5,809**
EVPR2M102	102	**5,013**	EVPR2P102	102	**5,920**	EVPR2T102	102	**6,594**
EVPR2M108	108	**5,231**	EVPR2P108	108	**6,854**			
EVPR2M114	114	**5,296**	EVPR2P114	114	**6,790**	EVPR2T114	114	**7,264**
EVPR2M125	125	**6,796**						
EVPR2M133	133	**6,950**						
EVPR2M140	140	**6,961**	EVPR2P140	140	**8,421**	EVPR2T140	140	**10,106**
EVPR2M160	160	**7,166**	EVPR2P160	160	**9,625**	EVPR2T160	160	**11,551**
EVPR2M170	170	**7,950**	EVPR2P170	170	**10,234**	EVPR2T170	170	**12,411**



IT-FLEX

TECHNICAL DOCUMENTATION

- ★ Thermal conductivity λ and insulation materials
- ★ Water vapour resistance factor μ
- ★ The calculation of insulation thicknesses - The prevention of condensation in systems working with cold fluids
- ★ CE markings and elastomeric insulation materials

Thermal conductivity λ and insulation materials

• Thermal conductivity is defined by the λ (lambda value) symbol, and represents the quantity of heat passing through the contact surfaces of two materials, both of which have a volume of 1 cubic meter and a difference in temperature of 1 °C.

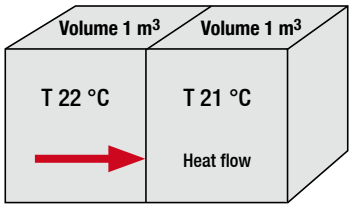
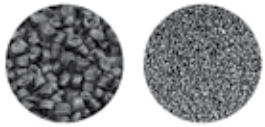


Illustration of heat flow passing between 2 surfaces

• Thermal conductivity is measured in W/m• K, and materials are considered insulation materials when their thermal conductivity λ value is lower than 0,100 W/m • K.

• Materials with the lowest λ value are considered as having the best insulation properties.

• For insulating materials, the main parameters which influence thermal conductivity are as follows:
- Chemical composition of the material
- Density (in general, a higher density corresponds to a higher λ value and therefore less effective insulating properties).
- Characteristics of the cell structure



Cell structure examples

• It is important to be able to simulate and stabilize the air quantity contained in its structure in order to guarantee an optimal λ value.

• Due to its intrinsic characteristics (compact molecular structure, dimensions of cells and high number of closed-cells), black closed-cell flexible elastomeric foam Insulation material (FEF) has low thermal conductivity values, which must meet the maximum values for these materials stipulated by the recent European Standard EN 14304, and should not exceed a value of 0,050 W/m• K (at a mean working temperature of 10 °C).

The following table defines the thermal conductivity values of the IT-FLEX C1 insulation material at the different mean temperatures as specified on the certificates issued by specialized laboratories.

MEAN TEMPERATURE °C	-30	-10	0	+20	+40	+70
λ (W/m•K)	0,033	0,034	0,035	0,037	0,038	0,040

Water vapour resistance factor μ

• This is defined by the μ (MU) symbol and is a measured value which determines the effectiveness of an insulating material to act as a barrier against water vapour transmission.

• It is an important parameter to assess the suitability of the insulation material, especially in applications such as refrigeration and air-conditioning systems which carry cold fluids.

• Higher μ values guarantee a longer life and greater efficiency of the insulation material.

• For thermal insulation materials in general, and especially for elastomeric foam, resistance to transmission of water vapour is strictly linked to the following characteristics:

- A molecular structure with a high amount of closed cells (> 90/95%)
- Small cell dimensions
- An excellent cohesion of the cell walls
- Homogeneous material thickness

• To prevent the risk of condensation, the external surface temperature of the insulation should be equal to or higher than the dew point in the working environment.

• μ CONVERSION FACTOR IN EQUIVALENT AIR THICKNESS

The following formula underlines how the air stratum can be obtained for a specific insulation material, taking into consideration that air, in normal conditions, is the best possible thermal insulation material compared to all others, with a thermal conductivity of 0,020 W/m• K.

From the formula: SA = u • s where

- SA = Equivalent air layer thickness (metres)

- μ = The water vapour resistance factor of the insulation material to be used

- s = Thickness (metres) of the insulation material to be used

Water vapour resistance factor μ

• Assuming the elastomeric foam IT-FLEX C1 will be used, with a water vapour transmission value of μ ≥ 7000, the equivalent air layer thickness resulting from the calculation would be as follows:

Thk. IT-FLEX insulation	6 mm	SA=7.000x 0,006	=	42 metres
Thk. IT-FLEX insulation	9 mm	SA=7.000x 0,009	=	63 metres
Thk. IT-FLEX insulation	13 mm	SA=7.000x 0,013	=	91 metres
Thk. IT-FLEX insulation	19 mm	SA=7.000x 0,019	=	135 metres
Thk. IT-FLEX insulation	25 mm	SA=7.000x 0,025	=	175 metres
Thk. IT-FLEX insulation	32 mm	SA=7.000x 0,032	=	224 metres
Thk. IT-FLEX insulation	40 mm	SA=7.000x 0,040	=	280 metres
Thk. IT-FLEX insulation	50 mm	SA=7.000x 0,050	=	350 metres
Thk. IT-FLEX insulation	60 mm	SA=7.000x 0,060	=	420 metres

N.B.

For information purposes it is important to clarify that water vapour transmission μ is purely a numeric comparison parameter used for making calculations.
This value is not used and is not among the parameters needed to calculate thermal dispersions, which are necessary to choose the correct insulation thickness for the various applications.

Calculation of insulation thickness to avoid the formation of condensation on pipeworks functioning with low temperature fluids - calculation rules

These are necessary for specific cases in which the fluids carried in the piping have a lower temperature than that of the external environment.

This combination is made worse due to the likely presence of humidity in the air of the environment which is a major cause of condensation formation. This can greatly reduce energy saving and can lead to severe corrosion of the system's pipework.

Therefore, the insulation has two purposes:

- to safeguard energy saving
- preserve and protect the installation (exposed to the air and its humidity), ensuring that the external surface temperature is never lower than the dew point temperature of the environment.

In order to establish the correct insulation thickness, the following data are necessary and a calculation should be made based on the formula illustrated below.

1) Temperature of the fluid in the system's piping

2) Temperature of the external environment

3) Ambient relative humidity

The formula is necessary to calculate the correct required insulation thickness in order to avoid the formation of condensation (basically, this calculation helps to obtain the value relative to the insulation applications on flat surfaces which however represent the maximum dispersed surfaces, and therefore the most difficult situations).

$$S = \frac{\lambda}{\alpha a} \times \left(\frac{ta - ti}{ta - tr} - 1 \right)$$

S = Insulation material thickness (expressed in meters)

λ = Thermal conductivity of the insulation material, expressed in W/m·K (the value obtained at the mean functioning temperature should be inserted).

α_a = External surface coefficient expressed as W/m²·K (data obtained from the following table).

ta = Ambient temperature °C

ti = Fluid temperature inside the pipework °C

tr = Air dew point temperature °C

α_a reference values for the calculation

Value	Type of ventilation
5 W/m²·K	Low ventilation
5 W/m²·K	Normal ventilation (internal environment)
5 W/m²·K	High ventilation (external environment)

Calculation of insulation thickness to avoid the formation of condensation on pipeworks functioning with low temperature fluids - The value of ta - tr is shown in table 1 below.

Table 1 - ta - tr value

Air Temperature °C	Maximum Humidity g/m3	Permitted air cooling °C until the formation of condensation for relative humidity														Maximum Humidity g/m3	Air Temperature °C
		30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%		
-20	0.90	-	10.4	9.1	8.0	7.0	6.0	5.2	4.5	3.7	2.9	2.3	1.7	1.1	0.5	0.90	-20
-15	1.40	12.3	10.8	9.6	8.3	7.3	6.4	5.4	4.6	3.8	3.1	2.4	1.8	1.2	0.6	1.40	-15
-10	2.17	12.9	11.3	9.9	8.7	7.6	6.6	5.7	4.8	3.9	3.2	2.5	1.8	1.2	0.6	2.17	-10
- 5	3.27	13.4	11.7	10.3	9.0	7.9	6.8	5.8	5.0	4.1	3.3	2.6	1.9	1.2	0.6	3.27	- 5
0	4.8	13.9	12.2	10.7	9.3	8.1	7.1	6.0	5.1	4.2	3.5	2.7	1.9	1.3	0.7	4.8	0
2	5.6	14.3	12.6	11.0	9.7	8.5	7.4	6.4	5.4	4.6	3.8	3.0	2.2	1.5	0.7	5.6	2
4	6.4	14.7	13.0	11.4	10.1	8.9	7.7	6.7	5.8	4.9	4.0	3.1	2.3	1.5	0.7	6.4	4
6	7.3	15.1	13.4	11.8	10.4	9.2	8.1	7.0	6.1	5.1	4.1	3.2	2.3	1.5	0.7	7.3	6
8	8.3	15.6	13.8	12.2	10.8	9.6	8.4	7.3	6.2	5.1	4.2	3.2	2.3	1.5	0.8	8.3	8
10	9.4	16.0	14.2	12.6	11.2	10.0	8.6	7.4	6.3	5.2	4.2	3.3	2.4	1.6	0.8	9.4	10
12	10.7	16.5	14.6	13.0	11.6	10.1	8.8	7.5	6.3	5.3	4.3	3.3	2.4	1.6	0.8	10.7	12
14	12.1	16.9	15.1	13.4	11.7	10.3	8.9	7.6	6.5	5.4	4.3	3.4	2.5	1.6	0.8	12.1	14
16	13.6	17.4	15.5	13.6	11.9	10.4	9.0	7.8	6.6	5.5	4.4	3.5	2.5	1.7	0.8	13.6	16
18	15.4	17.8	15.7	13.8	12.1	10.6	9.2	7.9	6.7	5.6	4.5	3.5	2.6	1.7	0.8	15.4	18
20	17.3	18.1	15.9	14.0	12.3	10.7	9.3	8.0	6.8	5.6	4.6	3.6	2.6	1.7	0.8	17.3	20
22	19.4	18.4	16.1	14.2	12.5	10.9	9.5	8.1	6.9	5.7	4.7	3.6	2.6	1.7	0.8	19.4	22
24	21.8	18.6	16.4	14.4	12.6	11.1	9.6	8.2	7.0	5.8	4.7	3.7	2.7	1.8	0.8	21.8	24
26	24.4	18.9	16.6	14.7	12.8	11.2	9.7	8.4	7.1	5.9	4.8	3.7	2.7	1.8	0.9	24.4	26
28	27.2	19.2	16.6	14.9	13.0	11.4	9.9	8.5	7.2	6.0	4.9	3.8	2.8	1.8	0.9	27.2	28
30	30.3	19.5	17.1	15.1	13.2	11.6	10.1	8.6	7.3	6.1	5.0	3.8	2.8	1.8	0.9	30.3	30
35	39.4	20.2	17.7	15.7	13.7	12.0	10.4	9.0	7.6	6.3	5.1	4.0	2.9	1.9	0.9	39.3	35
40	50.7	20.9	18.4	16.1	14.2	12.4	10.8	9.3	7.9	6.5	5.3	4.1	3.0	2.0	1.0	50.7	40
45	64.5	21.6	19.0	16.7	14.7	12.8	11.2	9.6	8.1	6.8	5.5	4.3	3.1	2.1	1.0	64.5	45
50	82.3	22.3	19.7	17.3	15.2	13.3	11.6	9.9	8.4	7.0	5.7	4.4	3.2	2.1	1.0	82.3	50

Table 2 - Thickness in mm of IT-FLEX C1 required to avoid the formation of condensation on flat surfaces

ta Ambient Temperature		+ 15 °C					+ 20 °C					+ 25 °C					+ 30 °C					+ 35 °C				
		60	70	80	85	90	60	70	80	85	90	60	70	80	85	90	60	70	80	85	90	60	70	80	85	90
FLUID TEMPERATURE °C	+ 15	-	-	-	-	-	-	-	-	4	8	-	-	7	11	19	-	6	12	18	31	5	10	17	25	41
	+ 10	-	-	-	4	8	-	-	7	12	20	-	6	13	19	31	6	10	18	26	42	7	12	22	32	51
	+ 5	-	-	8	12	19	-	7	13	19	31	6	10	18	26	41	8	13	23	33	54	10	16	27	39	62
	0	4	7	13	20	31	6	10	18	27	43	8	13	23	33	52	10	16	28	40	64	12	19	33	46	73
	- 5	6	10	18	27	41	9	14	24	34	55	10	16	28	40	63	12	19	33	46	74	14	22	37	52	82
	- 10	8	13	23	33	51	11	17	28	41	64	13	20	34	48	74	15	22	38	53	85	16	25	41	58	91
	- 20	13	20	33	48	72	15	23	37	53	83	16	25	41	58	89	19	28	47	66	104	20	31	51	72	112
	- 30	17	26	43	61	92	19	29	48	67	105	21	31	51	72	109	22	33	55	76	120	23	34	56	79	123

The CE Marking of flexible elastomeric foam (FEF)

SUMMARY

INTRODUCTION

A plan for a reduction of polluting emissions in the atmosphere was defined at a worldwide level in 1990 during the well-known Kyoto Conference and was aimed at encouraging the Member Countries to adopt an adequate energy policy which, without penalizing the environmental comfort, could boost a sustainable growth especially for developed countries.

The EU Member Countries, at that time already engaged in creating a united “future”, had already begun to introduce important regulations and standards (in certain specific sectors), aimed at implementing the Kyoto plan as soon as possible.

Among the different sectors, the building segment represented over 30% of the total energy consumption and was therefore worthy of prompt interventions.

DIRECTIVE 89/106/EEC and EU Regulation No.305/2011 of March 9, 2011.

The EU Directive for building materials (89/106/EEC) was promulgated by a panel of experts. It contained the main characteristics and parameters for the materials to be used, with the aim to guarantee more quality, safety, comfort and energy saving in the construction sector.

In March 2011 the EU Community approved the Regulation No. 305 published on April 4, 2011, which abrogated the EU Directive 89/106/ECC and officially came into force for manufacturers of building materials from July 1st 2013.

The aim of the Regulation was to guarantee, define all the conditions related to the commercialization of goods (free circulation in the EU) and to unify the administrative regulations in one single document, valid for all EU Member Countries.

The Regulation also updated the main requirements of building materials, including those of insulation materials used in the construction sector, as shown in the following Table 1.

The CE Marking of flexible elastomeric foam (FEF) - EUROPEAN STANDARD - EN 14304: 2009 + A1: 2013

LIST OF REQUIREMENTS AS PER REGULATION No. 305/2011 (Table 1)

CONSTRUCTION MATERIALS

- MECHANICAL RESISTANCE AND STABILITY
- SAFETY IN THE EVENT OF FIRE
- HYGIENE, HEALTH AND ENVIRONMENT
- SAFETY AND ACCESSIBILTY DURING UTILIZATION
- NOISE PROTECTION
- ENERGY SAVING AND HEAT RETENTION
- SUSTAINABLE USE OF NATURAL RESOURCES

INSULATION MATERIALS

- THERMAL CONDUCTIVITY
- REACTION TO FIRE
- WATER VAPOUR DIFFUSION
- SERVICE TEMPERATURE
- TYPE OF INSTALLATION (INSTABILITY)
- HEALTH AND SAFETY

Standard EN 14304 edition November 2009

With regards to building materials, the EU Directive stipulated that specific standards should be harmonized for each type of product, in order to guarantee its proper use, also based on its technical properties, some of which are not comparable between different types already on the market.

As regards Flexible Elastomeric Foam (FEF), the Standard EN 14304 was prepared and approved by the competent Technical Commission on November 2009, and published in the in the Official Journal of the European Union in 2010.

Manufacturers were informed that application of the new Standard for the purpose of CE Marking would become compulsory starting from August 1st 2012.

With the following tables we will try to provide the operators of this sector with some useful information regarding the contents and the obligations included in the Standard.

EUROPEAN STANDARD - EN 14304 - November 2009

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

REQUIREMENTS AND OBLIGATIONS

The main technical specifications of elastomeric products for thermal insulation (FEF) included in the Standard are:

The CE Marking of flexible elastomeric foam (FEF)

- **thermal conductivity***
- **dimensions and relevant tolerances ***
- **dimension stability**
- **reaction to fire***
- **Min. and Max. service temperature**
- **water absorption**
- **resistance to water vapour diffusion***
- **trace quantities of water soluble ions and the pH value**
- **sound absorption**
- **release of dangerous substances***

The specifications marked with (*) in the above table 2 will be analyzed hereafter, because these are the most significant and helpful features for market operators.

THERMAL CONDUCTIVITY

This is defined as the most important characteristic of insulation materials, is defined with the λ (lambda) symbol and measured in W/m•K. Thus, the lower a material's lambda value, the better its ability to insulate. Usually a material is defined as being an insulation product when its thermal conductivity value is less than 0.100 W/m•K. The European Standard EN 14304 stipulates that the thermal conductivity value of elastomeric insulation products (FEF) must not exceed 0.050 W/m•K at a mean temperature of 10 °C.

The lambda value is determined by testing the products and is fixed by the following standards:

-EN 12667 for flat surface products (sheets) and EN 12939 for thicknesses.

-EN ISO 8497 for cylindric products (tubes).

It is defined along the whole range of the product's service temperatures (with a min. limit of -170 °C).
Tests must be performed on the minimum and maximum thicknesses of the full production range.
The manufacturer is allowed to declare just one lambda value, valid for the whole range of thicknesses, with the condition that the highest value resulting from the different tests is the one to be declared.

The CE Marking of flexible elastomeric foam (FEF)

DIMENSIONAL TOLERANCES

These are the variable sizes determined by the Standards:

- EN 822 and EN 823 for sheet panels, rolls and tapes.

- EN 13467 for tubes

The standard tolerances are as follows:

DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm **Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness**

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

REACTION TO FIRE

In order to standardize and regulate at EU level one of the most important aspects linked to safety and security of the environment, i.e. the reaction to fire of building materials (insulation materials included), several standards were promulgated and enforced, as follows:

- EN 13501-1:2002 Classification based on reaction to fire for building materials Part 1 (Reaction to Fire)

The CE Marking of flexible elastomeric foam (FEF)

EUROCLASS - APPLICATION TABLE

Reaction to fire classes			Smoke classes			Dripping classes		
A1	Incombustible		No test required			No test required		
A2		Non Combustibile	s1		Limited or absent	d0	—	Absent for the first ten minutes
B		Level of combustion increasing from class B to class E	s2		Present	d1		Low dripping of incandescent material for less than 10 seconds
C			s3		Significant	d2		Significant
D			No test			No indications or d2		
E								
F	N.d.P. Performance not declared							

TEST REGULATION AND EUROPEAN CLASSIFICATION

EN 13501-1:2002	Fire classification of building products. Part 1 Fire behaviour
EN 13238:2001	Method of air-conditioning
EN ISO 1182: 2002	Non-combustibility test
EN ISO 1716:2002	Calculation of calorific values
EN ISO 11925-2:2002	Flammability of construction products in direct contact with flame
EN 13823:2002	Fire behaviour test for construction products excluding floors (S.B.I. test)
EN ISO 9239-1:2002	Fire behaviour test for floors (radiant panel)

In the specific case of elastomeric insulation products (FEF), which are part of the organic family, the best fire classification obtained is class B.

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N.B.
In the new european classification for all classes from **A2** to **E**, additional characteristics are required that are marked by the letters:

s = smoke

d = dripping

and should be included to the initial classification.

If tests are carried out separately on tubes, the initial classification will have a subscript BL, and for sheets it will be only B, as indicated below:

-B_L (tubes) i.e. B_L S2 d0

-B (sheets) i.e. B S3 d0

RESISTANCE TO WATER VAPOUR DIFFUSION

This property is definited by the μ (mu) symbol and is determined by the following standards:

-EN 12086 Flat products

-EN 13469 Cylindrical products

Alternatively, the **EN ISO 10456** Standard can be applied

The value should be indicated at intervals of 1000 to a maximum of 15000 and should never be less than the declared value, (this value should always be preceded by the symbol ≥ greater or identical), as shown in the following table:

RESISTANCE TO WATER VAPOUR DIFFUSION

LEVEL	DECLARED VALUE
1000	≥ 1000
2000	≥ 2000
3000	≥ 3000
4000	≥ 4000
↓ 15000	≥ ↓ 15000

The CE Marking of flexible elastomeric foam (FEF)

TRACES OF SOLUBLE IONS IN THE WATER, PH VALUE AND THE RELEASE OF DANGEROUS SUBSTANCES (Halogens)

- chlorides.
- fluorides.
- silicates.
- sodium.

The traces of CHLORIDE- FLUORIDE - SILICATE - SODIUM ions (that can cause possible corrosion of metal piping) together with the product's PH value, are evaluated based on the European Standard EN 13458.

MANUFACTURER'S OBLIGATIONS (EVOCELL Srl)

a) Production control in the factory

b) Test of samples taken from the factory based on to a specific control plan

- OBLIGATIONS OF THE NOTIFIED BODY - For EVOCELL Srl this is CSI Spa of BOLLATE, MILAN-n.0497

a) Initial product test

b) Initial inspection of the factory and the production control precedures

c) Permanent monitoring, evaluation and approval of factory production controls

The CE Marking of flexible elastomeric foam (FEF)

CE 01234	CE conformity marking, consisting of the "CE"-symbol given in Directive 93/68/EEC Identification number of the certification body (for products under system 1)
AmyCo Ltd, PO Box 21, B-1050 **09** 0134-CPD-00234	Name or identifying mark and registered address of the producer Two last digits of the year for affixing CE marking (ITT) Certificate number (for products under system 1)
EN 14304: 2009 Flexible Elastomeric Foam, intended to be used as thermal insulation product for building equipment and industrial installations Reaction to fire - Class B Thermal conductivity see Manufacturer's Literature FEF - EN - 14304 - ST(+) 115 - ST(-) 200 - MU 7000 - CL 1	No. of dated version of European Standard Description of the product and Information on regulated characteristics Designation code (in accordance with Clause 6 for the relevant characteristics according to Table ZA. 1)

FEF - EN-14304 Reference Standard

ST (+)-ST (-): Maximum and minimum service temperatures

MU 7000: Water vapour diffusion coefficient

CL1: Chloride ions soluble in water

The Regulation (EU) 305 / 2011 has modified and replaced some rules compared to the Directive 89/106/EEC as listed below:

1. The Declaration of Performance (Mandatory from july 1st 2013) repalces the Declaration of Conformity.

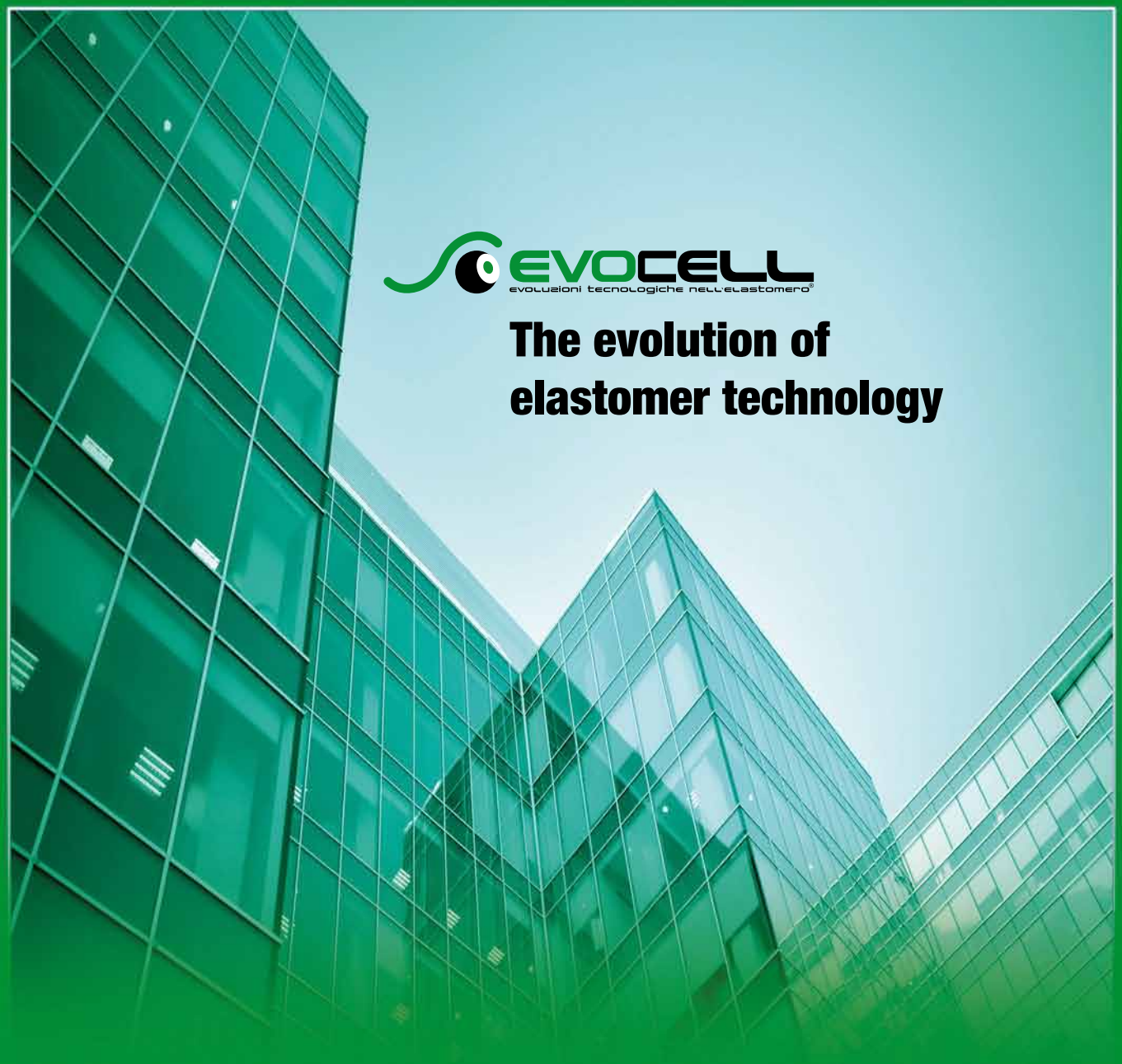
2. The Certificate of Constancy of Performance replaces the EC Certificate of Conformity released by the Notified Body.

Documentation relevant to CE Markings

Apart from the labelling previously illustrated, the documents accompanying the CE Trademark (updated when the European Regulation came into force) are as follows:

The product's Certificate of Constancy of Performance (substituting the Certificate of Conformity) released by the notified Body.

Declaration of Performance (DoP) released by the manufacturer, accompanied by the safety data sheet in accordance with the EU Regulation No.1907/2006 (Reach).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IT-FLEX - Insulation Systems

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