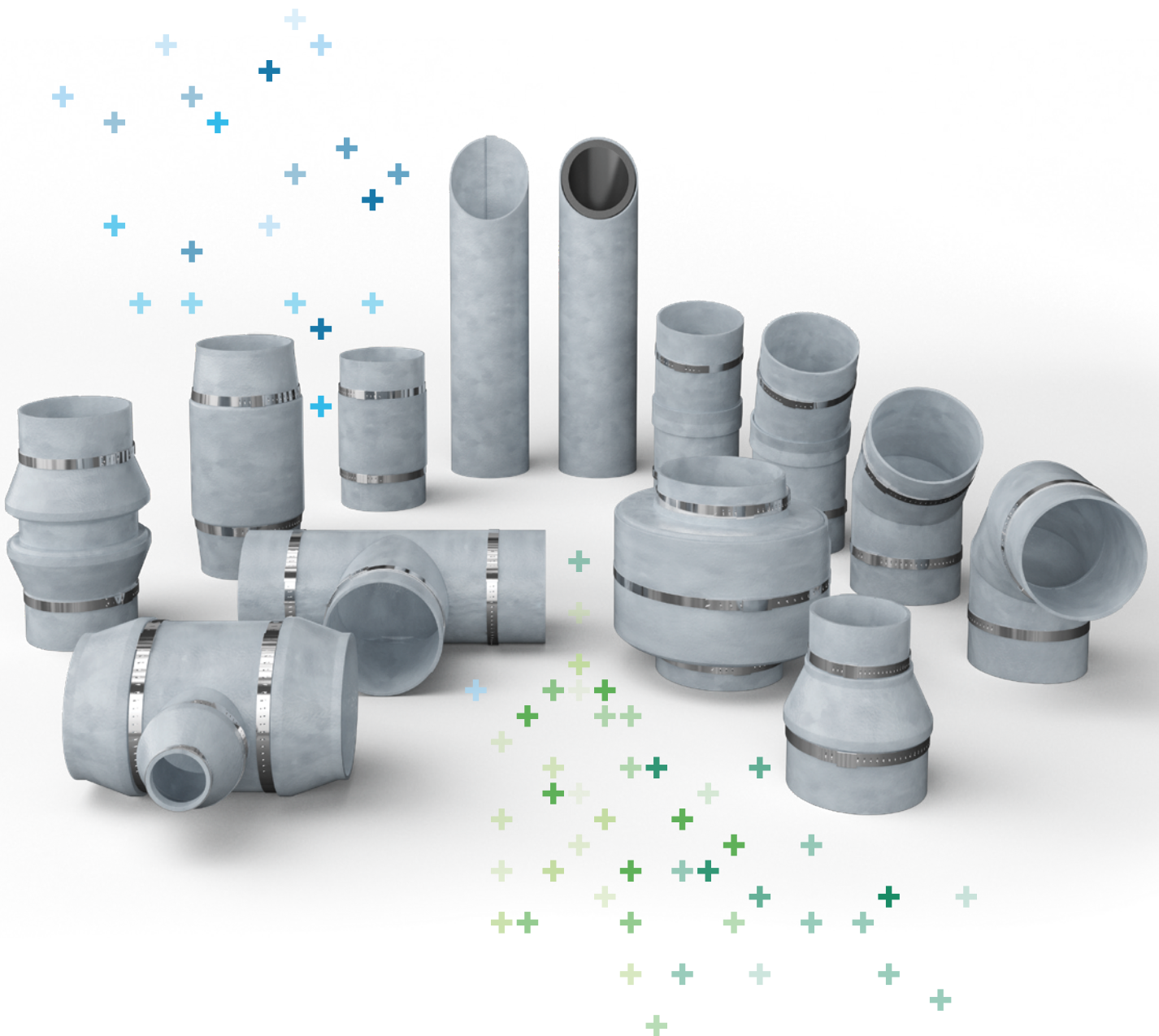


Product range

HEAT-FIT™



Product range

HEAT-FIT – Bill of material

HEAT-FIT's ultimate fire protection for plastic piping systems is based on intumescent technology and was designed to cope with the harshest marine conditions. The HEAT-FIT system consists of factory-coated PE pipes and flexible fitting jackets for fire protection of the PE fittings.

Pipes

The medium-carrying pipe is made of GF Piping Systems' long-established polyethylene system ecoFIT. Pipes are available as a co-extruded version, covered with an intumescent coating or as a set of PE pipe and HEAT-FIT sleeves for manual installation of the fire-protecting barrier.

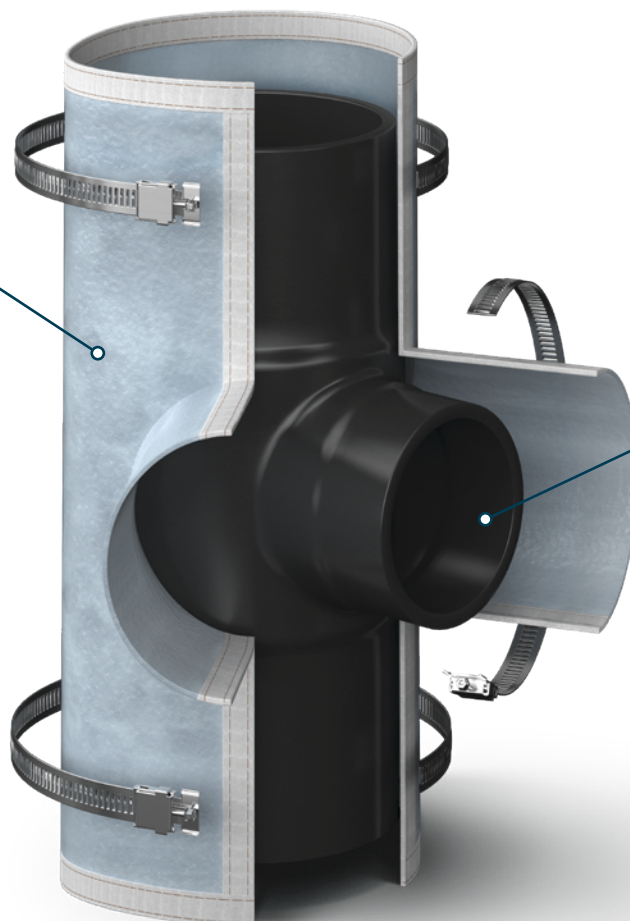
Fittings

The medium-carrying fittings are made of PE100 and are protected against fire by a separate installation step of installing a flexible HEAT-FIT jacket. ecoFIT fittings and HEAT-FIT jackets must be ordered separately. All code numbers are listed in the following datasheets.

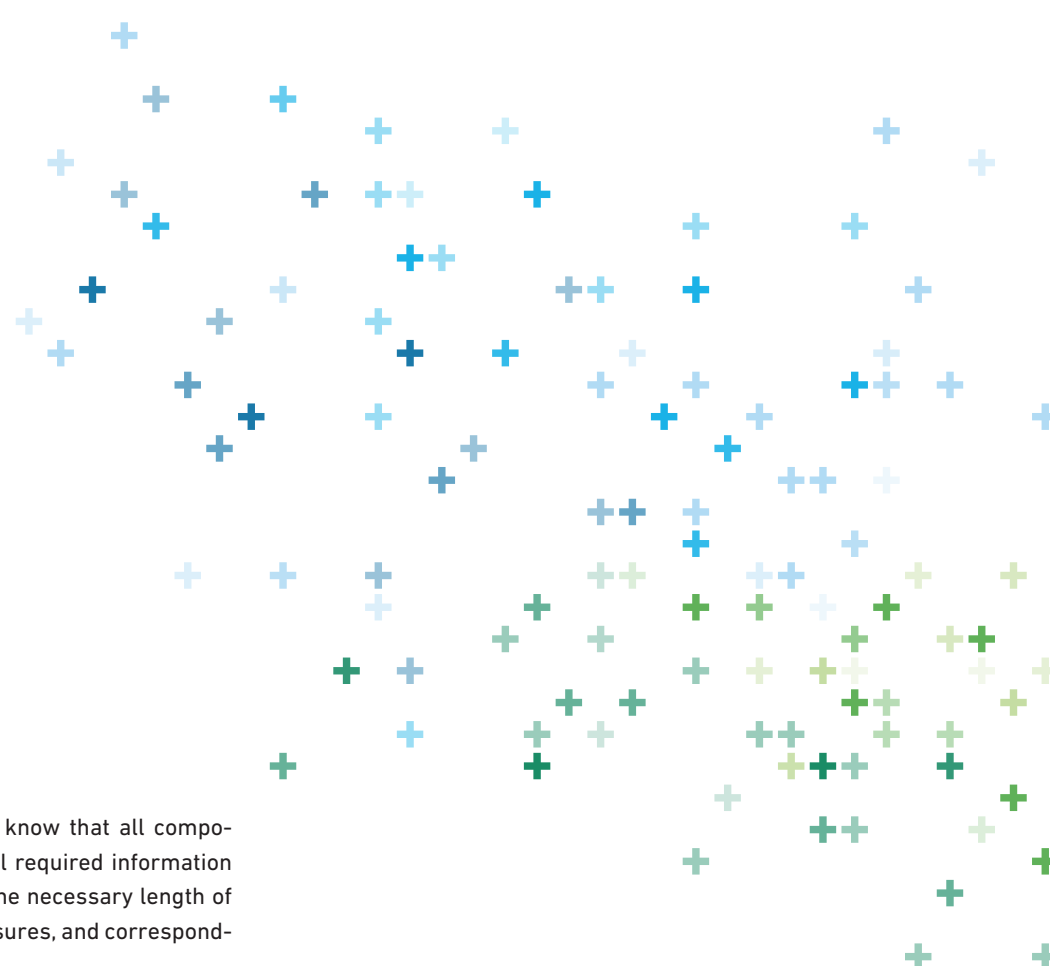
Joining and installation

HEAT-FIT PE pipes are connected with butt fusion technology. ecoFIT pipes, combined with HEAT-FIT sleeves, are connected with butt fusion or electrofusion. Pipe-to-fitting connections are only possible with butt fusion. HEAT-FIT Jackets are installed on the fittings after the successful welding of the ecoFIT system.

**Fire Retardant System
HEAT-FIT**







**Inner pipe
ecoFIT**



Order Fittings – HEAT-FIT Jackets

For a proper bill of material, please know that all components must be ordered separately. All required information is mentioned in the datasheets, like the necessary length of metal straps, the number of metal closures, and corresponding ecoFIT inner pipe code numbers.

Example – ecoFIT Tee 90° Reduced with HEAT-FIT Jacket

Article	HEAT-FIT Jacket Tee 90° Reduced	HEAT-FIT Metal Strap	HEAT-FIT Metal Closure	ecoFIT Tee 90° Reduced PE100
Picture				
Code number	756 200 174	756 170 302	756 170 303	753 208 374
Required quantity	1 ×	1 × 110cm	3 ×	1 ×

Note: For the use of ecoFIT pipes and HEAT-FIT pipe sleeves, no additional metal straps and closures have to be ordered. Each end of the HEAT-FIT pipe sleeve is covered by use of the corresponding HEAT-FIT Jacket (elbow, weld bead cover, etc.).

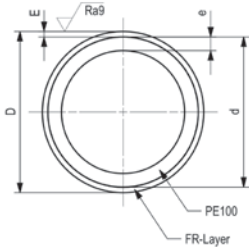


HEAT-FIT PE - Co-Extruded Flame-Retardant Pipe SDR11 / PN16 / S5 Model

- Co-Extruded Pipe: Standard ecoFIT PE100 pipe with Flame Retardant Layer
- Color: White-Grey
- Marine specific test – IMO A.753 (18) Level 3

Model:

- Pipe length: 5m, with plain ends
- Note 1: Special half-shells are available on request due to the fact of a slightly bigger outer pipe dimension of the pipe.
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.



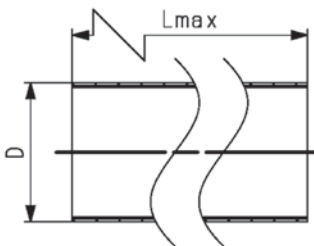
Dimension	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)	E
d110/D118	11	16	756 017 114	5.3	10.0	4
d160/D168	11	16	756 017 117	9.9	14.6	4
d225/D233	11	16	756 017 120	17.7	20.5	4
d315/D323	11	16	756 017 123	32.2	28.6	4

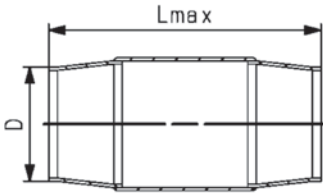


HEAT-FIT - Jacket Pipe Sleeve for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	D (mm)	Code	Weight (kg)	Lmax (mm)	for ecoFIT article
110	122	756 170 114	6.90	4960	193 017 164
160	172	756 170 117	9.90	4960	193 017 167
225	237	756 170 120	14.91	4960	193 017 170
315	327	756 170 123	19.73	4960	193 017 173

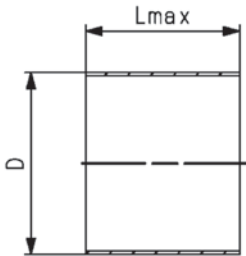




HEAT-FIT - Jacket Electrofusion Coupler for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	D (mm)	Code	Weight (kg)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ELGEF Plus article
110	124	756 910 114	0.80	285	240	4	753 911 614
160	174	756 910 117	1.00	320	330	4	753 911 617
225	239	756 910 120	1.45	425	460	4	753 911 620
315	329	756 910 123	1.79	507	640	4	753 911 623



HEAT-FIT - Jacket Weld Bead Cover for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- ecoFIT articles have to be ordered separately
- Valid for standard and long spigot bends
- Type approved for marine application by ABS, BV, DNV, LR and RINA

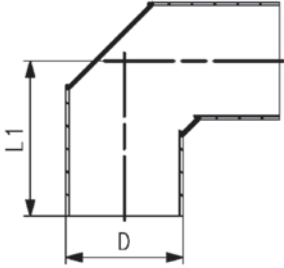
d (mm)	D (mm)	Code	Weight (kg)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]
110	132	756 170 334	0.30	152	110	2
160	182	756 170 337	0.30	152	140	2
225	247	756 170 330	0.45	152	210	2
315	337	756 170 333	0.76	152	290	2



HEAT-FIT - Jacket 90° Bend for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

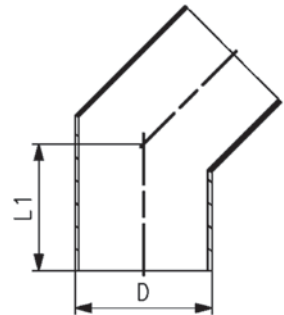
d (mm)	D (mm)	Code	Weight (kg)	L1 (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article
110	124	756 100 114	0.60	180	110	2	753 018 744
160	174	756 100 117	1.10	230	140	2	753 018 717
225	239	756 100 120	1.47	320	315	3	753 018 720
315	329	756 100 123	3.05	441	435	3	753 018 623



HEAT-FIT - Jacket 45° Elbow for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	D (mm)	Code	Weight (kg)	L1 (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT and ELGEF Plus article
110	124	756 150 114	0.50	140	110	2	753 158 614
160	174	756 150 117	0.80	170	140	2	753 158 617
225	239	756 150 120	1.13	240	315	3	753 158 620
315	329	756 150 123	3.72	366	435	3	753 150 923

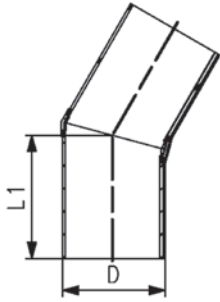




HEAT-FIT - Jacket 30° Elbow

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

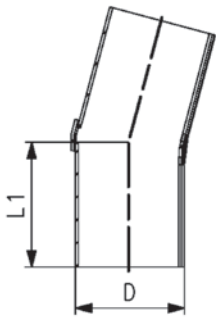
d (mm)	D (mm)	Code	Weight (kg)	L1 (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ELGEF Plus article
110	124	756 120 114	0.70	185	110	2	753 120 914
160	174	756 120 117	1.10	210	210	3	753 120 917
225	239	756 120 120	1.50	270	315	3	753 120 920
315	329	756 120 123	2.73	320	435	3	753 120 923



HEAT-FIT - Jacket 15° Elbow

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	D (mm)	Code	Weight (kg)	L1 (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ELGEF Plus article
110	124	756 130 114	0.70	190	110	2	753 141 014
160	174	756 130 117	1.00	216	210	3	753 141 017
225	239	756 130 120	1.54	281	315	3	753 141 020
315	329	756 130 123	3.51	339	435	3	753 141 023

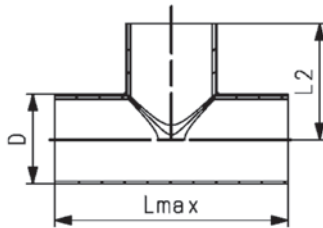




HEAT-FIT - Jacket Tee 90° Equal for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	D (mm)	Code	Weight (kg)
110	124	756 200 114	0.80
160	174	756 200 117	1.30
225	239	756 200 120	2.11
315	329	756 200 123	4.80



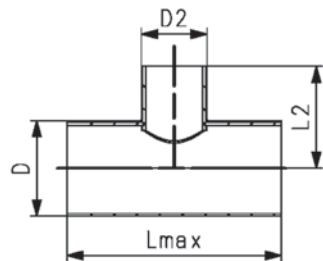
L2 (mm)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article
181	362	165	3	753 208 614
231	462	210	3	753 208 617
323	586	315	3	753 208 620
468	836	435	3	753 208 623



HEAT-FIT - Jacket Tee 90° Reduced

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	d2 (mm)	D (mm)	Code	Weight (kg)
160	110	174	756 200 174	1.20
225	110	239	756 200 189	1.60
225	160	239	756 200 191	1.60
315	160	329	756 200 152	4.02
315	225	329	756 200 153	4.02



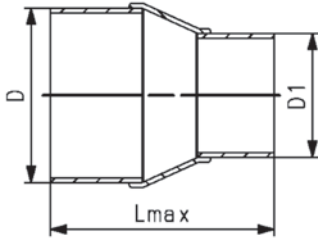
D2 (mm)	L2 (mm)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT and ELGEF Plus article
124	204	424	195	3	753 208 374
124	235	506	265	3	753 208 389
174	235	506	280	3	753 208 391
174	416	935	430	4	753 201 052
239	455	890	500	4	753 201 053



HEAT-FIT - Jacket Reducer for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	d2 (mm)	D (mm)	Code	Weight (kg)
160	110	174	756 900 190	0.60
225	160	239	756 900 196	0.90
315	225	329	756 900 176	2.00



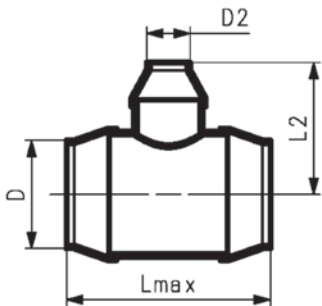
D1 (mm)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article quantity clo- sures per piece [pieces]
124	260	125	2	753 908 690
174	330	175	2	753 908 696
239	457	250	2	753 908 176



HEAT-FIT - Jacket Branch Saddle to d63

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d (mm)	d2 (mm)	D (mm)	Code	Weight (kg)
110	63	124	756 110 114	1.10
160	63	174	756 110 117	1.10
225	63	239	756 110 120	2.03
315	63	329	756 110 123	2.64

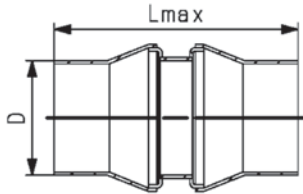


D2 (mm)	L2 (mm)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article quantity clo- sures per piece [pieces]
71	199	354	180	4	193 137 067
71	212	328	210	4	193 137 097
71	257	475	490	6	193 137 127
71	302	566	650	6	193 137 157



HEAT-FIT - Fixpoint Jacket for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Valid for standard and long spigot bends
- Type approved for marine application by ABS, BV, DNV, LR and RINA

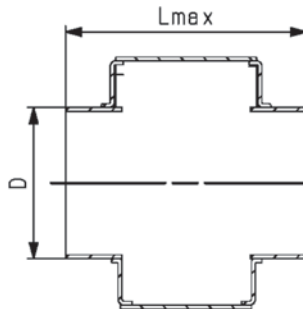


d (mm)	D (mm)	Code	Weight (kg)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article
110	124	756 660 114	0.80	362	110	2	753 665 561
160	174	756 660 117	1.10	362	140	2	753 665 564
225	239	756 660 120	1.89	473	210	2	753 665 567
315	329	756 660 123	2.32	513	290	2	753 665 570

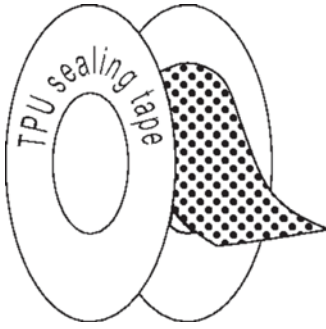


HEAT-FIT - Jacket Flange Connection for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA



d (mm)	D (mm)	Code	Weight (kg)	Lmax (mm)	Required length met- al strap per piece [cm]	Required quantity clo- sures per piece [pieces]	for ecoFIT article
110	124	756 700 114	1.40	283	190	3	753 798 314 & Steel Backing Flange
160	174	756 700 117	1.80	299	240	3	753 798 317 & Steel Backing Flange
225	239	756 700 120	2.50	480	365	3	753 798 320 & Steel Backing Flange
315	329	756 700 123	3.26	513	495	3	753 798 323 & Steel Backing Flange



HEAT-FIT - Jacket Sealing Tape

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Consists of thermoplastic polyurethane (TPU)
- Sealing tape has to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

Code	Weight	Length
	(kg)	(m)
756 170 301	0.20	25



HEAT-FIT - Jacket Metal Strap

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Use as indicated in the installation manual
- Metal straps have to be ordered separately

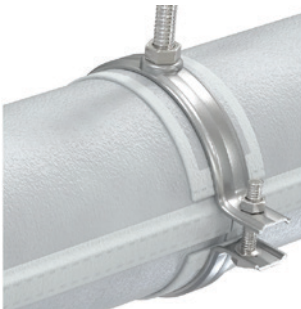
Code	SP	Weight	Length	Width	Thickness	Material
		(kg)	(m)	(mm)	(mm)	
756 170 302	1	1.50	30	9	0.6mm	Stainless Steel



HEAT-FIT - Metal Closure

- Necessary for the installation of the HEAT-FIT Jacket system on the ecoFIT piping system
- Use as indicated in the installation manual
- One metal closure is required for each metal strap

Code	Quantity
756 170 303	50 pcs.



HEAT-FIT - Fixpoint Jacket for ecoFIT PE piping systems

- Consists of intumescent fire retardant material
- Accessories have to be ordered separately
- ecoFIT articles have to be ordered separately
- Type approved for marine application by ABS, BV, DNV, LR and RINA

d	D	Code	Weight	Lmax
(mm)	(mm)		(kg)	(mm)
110	125	756 170 314	0.03	70
160	175	756 170 317	0.04	70
225	240	756 170 320	0.06	70
315	330	756 170 323	0.30	70



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