



THE GLOBAL SOLUTION
FOR PIPES AND COATINGS





RIVECO GENERALSIDER S.p.A. has over 50 years of experience making steel pipes. It is expression, and natural evolution as well, of the expertise gathered by the two former companies operating in the steel pipes & anti-corrosion coating field: General Sider Italiana S.p.A and Riveco Rivestimenti Condotte S.p.A. The Group, over almost half a century, has become a leading Italian industrial group specialized in the supply of products and services to the companies of the energy and infrastructure industries, with an extensive know-how in the field of the offshore pipelines being one of the main companies in Europe to perform the concrete overweighting. The understanding of our customer's needs, applications and markets and the comprehensive production range have proven our strength, that enables our customers to trust our Group as their resource for new steel pipeline.



STEEL PIPES

Longitudinally HFI welded steel pipes intended for the distribution and transport of gas, water, oil and other fluids at low, medium and high pressure in accordance with the main international standards.

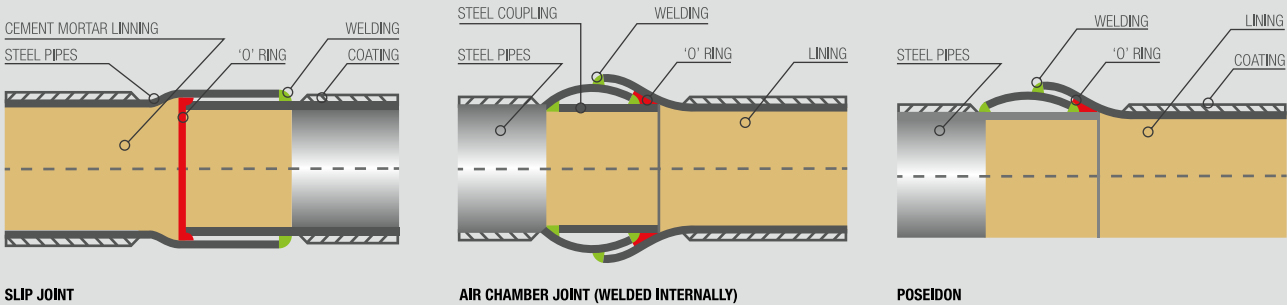


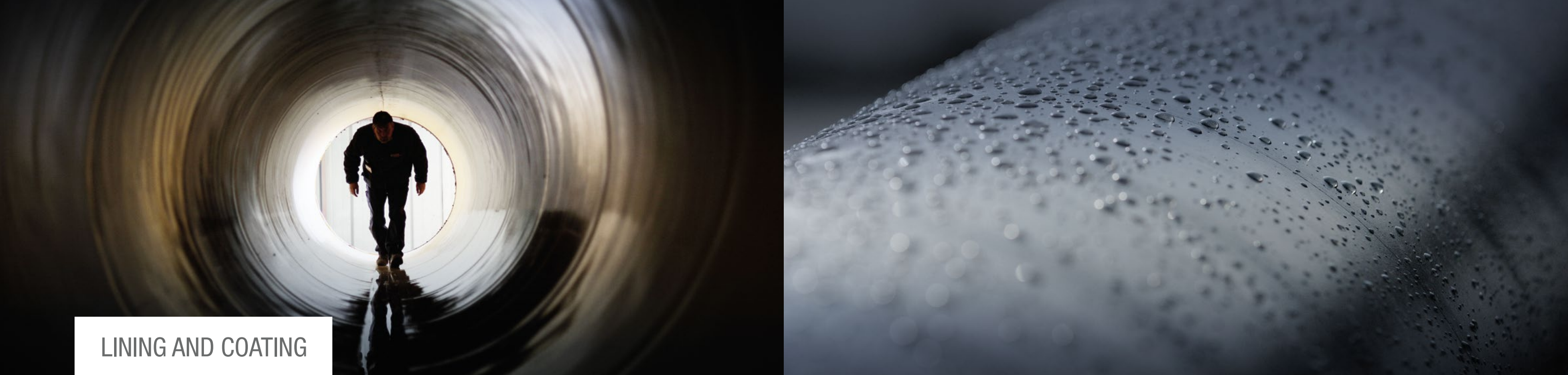
Diameter (mm)			Minium Thickness (mm)	Max Thickness per Grade (mm)						
				ISO 3183 - API spec 5L - EN 10208-2 - EN 10208-1 - EN 10217 - EN 10219 - EN 10224						
O.D. (mm)	NPS (inch)	OD	EVERY GRADE	L235	L245/Gr.B	L290/X42	L360/X52	L415/X60	L450/X65	L485/X70
88,9	3"	80	2,6	6,4	6,4	6,4	5,5	5,5	5,5	5,0
114,3	4"	100	2,6	6,4	6,4	6,4	6,4	6,4	6,4	5,5
139,7	5"	125	2,9	8,7	8,7	8,7	8,7	8,2	8,2	6,4
168,3	6"	150	3,2	9,5	9,5	9,5	9,5	9,5	9,5	7,0
219,1	8"	200	3,6	11,1	11,1	11,1	9,5	9,5	9,5	8,7
273,0	10"	250	4,00	12,7	12,7	12,7	11,1	11,1	11,1	9,5
323,9	12"	300	4,00	12,7	12,7	12,7	12,7	12,7	12,7	11,1
355,6	14"	350	4,00	12,7	12,7	12,7	12,7	12,7	12,7	11,1
406,4	16"	400	4,00	12,7	12,7	12,7	12,7	12,7	12,7	11,1

Mass		Wall Thickness																												
		2,6	2,9	3,2	3,6	4,0	4,5	4,8	5,0	5,2	5,6	6,3	6,4	7,1	7,9	8,2	8,7	9,5	10,0	10,3	11,1	12,7								
Ø	88,9	5,53	6,15	6,76	7,57	8,38	9,37	9,96	10,35	10,73	11,5	12,83	13,02																	
	114,3	7,16	7,97	8,77	9,83	10,88	12,19	12,96	13,48	13,99	15,01	16,78	17,03																	
	139,7		9,78	10,77	12,08	13,39	15,00	15,97	16,61	17,25	18,52	20,73	21,04	23,22	25,68	26,59	28,11													
	168,3		11,83	13,03	14,62	16,21	18,18	19,35	20,14	20,92	22,47	25,17	25,55	28,23	31,25	32,38	34,24	37,20												
	219,1			17,04	19,13	21,22	23,82	25,37	26,40	27,43	29,49	33,06	33,57	37,12	41,15	42,65	45,14	49,11												
	273,0				23,92	26,54	29,80	31,75	33,05	34,34	36,93	41,44	42,08	46,56	51,65	53,55	56,71	61,73	64,86	66,73	71,69									
	323,9				28,44	31,56	35,45	37,77	39,32	40,87	43,96	49,34	50,11	55,47	61,56	63,84	67,63	73,66	77,41	79,66	85,63	97,47								
	355,6				31,25	34,68	38,96	41,53	43,23	44,94	48,34	54,27	55,12	61,02	67,74	70,25	74,43	81,09	85,23	87,71	94,30	107,4								
	406,4				35,76	39,7	44,6	47,54	49,5	51,45	55,35	62,16	63,13	69,92	77,64	80,53	85,33	92,99	97,76	100,6	108,2	123,3								

PIPE JOINT DETAILS

Spherical socket joint, spigot and socket joint, standard air chamber and Poseidon joint, for steel linepipes for water distribution.





LINING AND COATING

Lining

Anti-corrosion linings with epoxy paints, thermoplastic powders, cement mortar, bitumen, suitable for the distribution of drinking water, gas, hydrocarbons on steel linepipes ranging from Ø ½" (21,3mm) up to Ø 64" (1625,6mm).

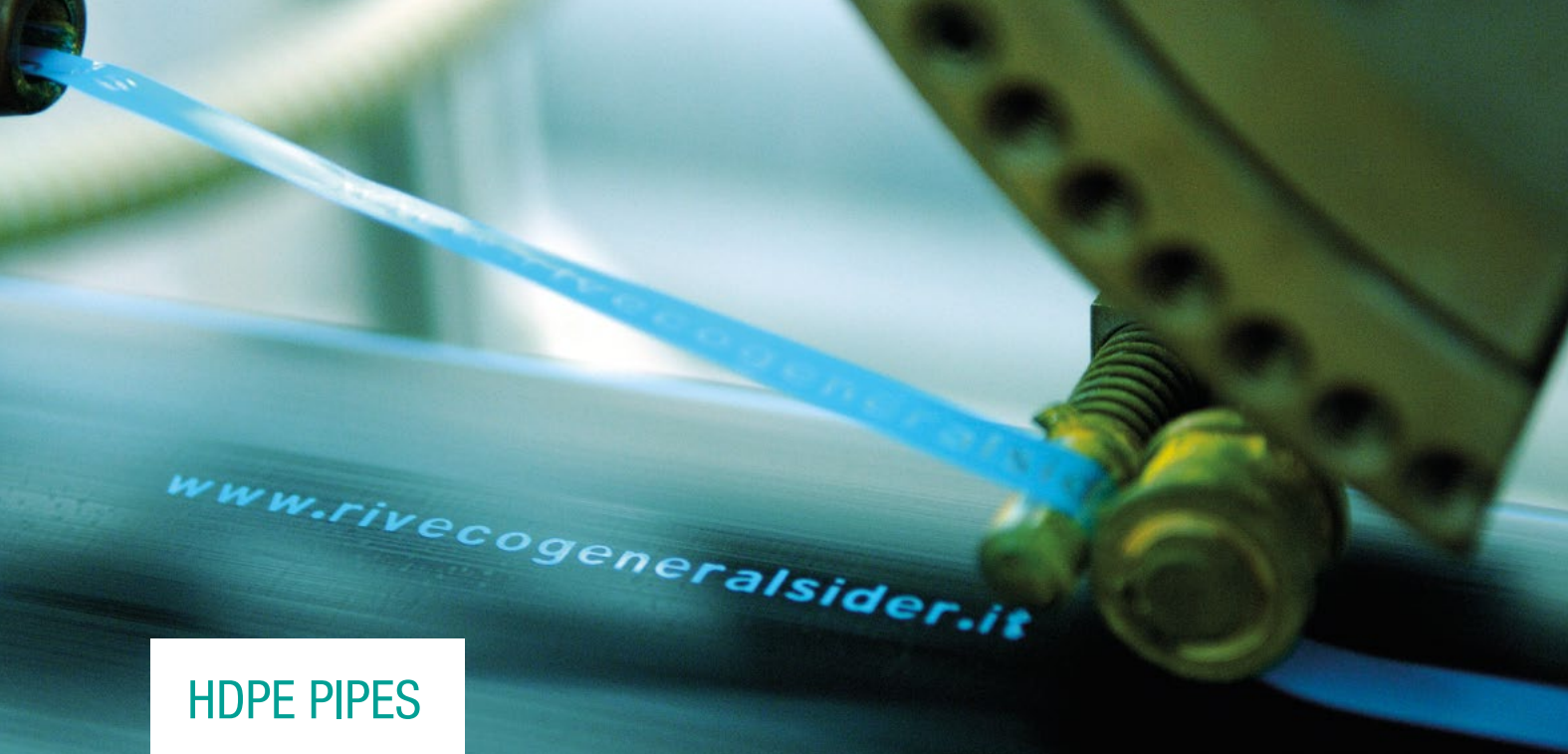
Type of Coating		Diameter (mm) min÷max	Coating Thickness min÷max	Length (m) min÷mx	Reference standard
INTERNAL	EPOXY RESIN FOR GAS	3"-64"	50÷500µm	6÷13,5	EN 10301
	EPOXY RESIN FOR WATER	2"1/2-64"	50÷500µm	6÷13,5	EN 10301; API RP5L2
	CEMENT MORTAR	3"-64"	50÷15mm	6÷13,5	DIN 2614-EN 10298-NFA 49701-UNI ISO 4179-AWA C205
	BITUMEN	2"1/2-24"	50÷400µm	6÷13,5	UNI ISO 5256
	EPOXY FUEL	3"-64"	110µm	6÷13,5	UPON CLIENT'S REQUIREMENTS
	THERMOPLASTIC RESINS	4"-16"	150÷300µm	6÷13,5	UPON CLIENT'S REQUIREMENTS

External

Anti-corrosion protective coatings of steel linepipes ranging from Ø ½" (21,3mm) up to Ø 64" (1625,6mm), suitable for onshore and offshore installations, gas and water pipelines: PE, PP, FBE, bitumen, thermal insulation, rock-shield protection (cement mortar reinforced with fiberglass or at high resistance for big diameters), concrete overweighting (CWC) and sacrificial anodes application for sea-line, according to the most important national and international standards.

Type of Coating		Diameter (mm) min÷max	Coating Thickness min÷max	Length (m) min÷mx	Reference standard
EXTERNAL	POLYETHYLENE (PE)	1/2"-64"	1,8÷10mm	6÷13,5	EN ISO 21809-1 / DIN 30670 / UNI 9099 / NFA 49710
	POLYPROPYLENE (PP)	1/2"-64"	1,8÷10mm	6÷13,5	EN ISO 21809-1 / DIN 30678 / NFA 49711
	FUSION BONDED EPOXY (FBE)	1/2"-64"	50÷1000µm	6÷13,5	EN ISO 21809-2
	BITUMEN	2"1/2-24"	4÷8mm	6÷13,5	UNI ISO 5256
	INORGANIC ZINC PRIMER	3"-24"	75µm	6÷13,5	UPON CLIENT'S REQUIREMENTS
	ROCK-SHIELD PROTECTION-FZM	3"-60"	6÷9mm	6÷13,5	UPON CLIENT'S REQUIREMENTS
	CONCRETE WEIGHT COATING (CWC)	6"-64"	20÷150mm	6÷13,5	UPON CLIENT'S REQUIREMENTS
	THERMAL INSULATION	1/2"-36"	Upon request	6÷13,5	EN ISO 21809-5 / EN 253





HDPE PIPES



PE 100 - UNI EN 12201

High density polyethylene pipes for the transport of drinking water and other pressure fluids according to the standard EN 12201. Pipes are identified by a blue marking and n.4 co-extruded indelible blue stripes to ascertain their use.

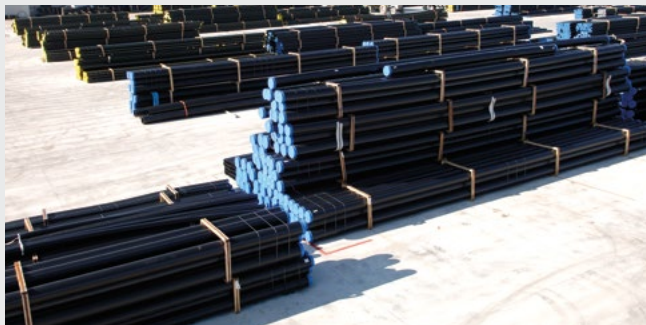
ROLLS/BARS	OD (mm)	PN 6,3		PN 10		PN16		PN25	
		SDR 26		SDR 17		SDR 11		SDR 7,4	
		W.T. (mm)	Kg/m	W.T. (mm)	Kg/m	W.T. (mm)	Kg/m	W.T. (mm)	Kg/m
R	20					2,0	0,116	3,0	0,161
R	25					2,3	0,167	3,5	0,236
R	32					3,0	0,275	4,4	0,378
R	40					3,7	0,421	5,5	0,587
R	50			3,0	0,446	4,6	0,650	6,9	0,916
R	63			3,8	0,706	5,8	1,027	8,6	1,437
R	75			4,5	0,990	6,8	1,431	10,3	2,042
B	90			5,4	1,418	8,2	2,063	12,3	2,922
B	110			6,6	2,109	10,0	3,067	15,1	4,373
B	125			7,4	2,683	11,4	3,965	17,1	5,626
B	140			8,3	3,363	12,7	4,944	19,2	7,066
B	160	6,2	2,952	9,5	4,390	14,6	6,483	21,9	9,207
B	180	6,9	3,689	10,7	5,553	16,4	8,186	24,6	11,63
B	200	7,7	4,563	11,9	6,852	18,2	10,09	27,4	14,38
B	225	8,6	5,724	13,4	8,669	20,5	12,77	30,8	18,18
B	250	9,6	7,086	14,8	10,63	22,7	15,71	34,2	22,42
B	280	10,7	8,835	16,6	13,34	25,4	19,67	38,3	28,11
B	315	12,1	11,220	18,7	16,89	28,6	24,90	43,1	35,57
B	355	13,6	14,195	21,1	21,46	32,2	31,58	48,5	45,11
B	400	15,3	17,974	23,7	27,14	36,4	40,20	54,7	57,30



PE 80 - UNI EN 1555

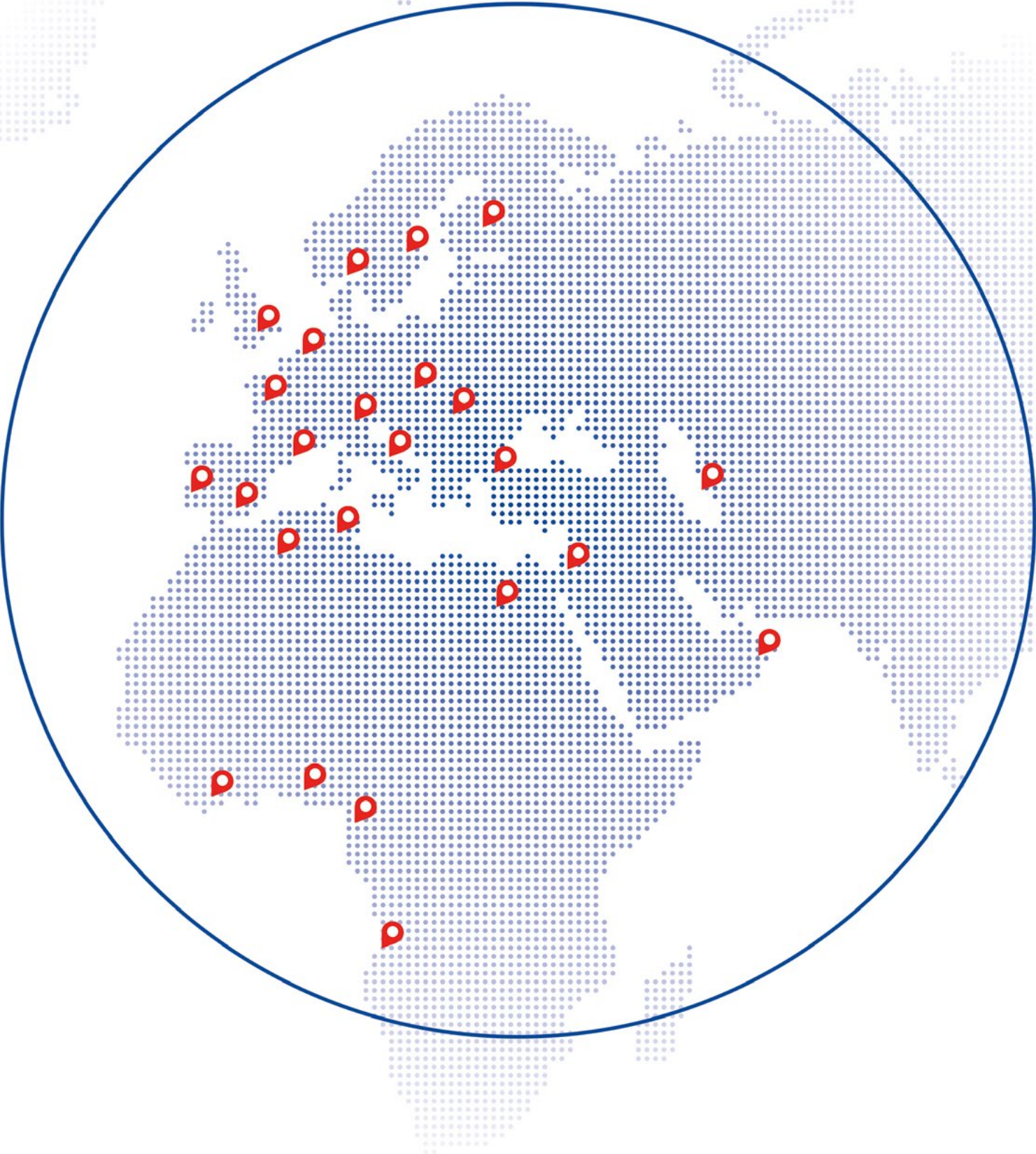
High density polyethylene pipes for distribution of natural gas manufactured according to the standard EN 1555 and to the Italian Ministerial Law 16 & 17/04/2008. Pipes are identified by a yellow marking and n.4 co-extruded indelible yellow stripes to ascertain their use.

ROLLS/BARS	OD (mm)	S5		S8		S12,5	
		MOP 5bar		MOP 3bar		MOP 3bar	
		W.T. (mm)	Kg/m	W.T. (mm)	Kg/m	W.T. (mm)	Kg/m
R	20	3,00	0,160				
R	25	3,00	0,208				
R	32	3,00	0,275				
R	40	3,70	0,421	3,00	0,351		
R	50	4,60	0,650	3,00	0,446		
R	63	5,80	1,026	3,60	0,671		
R	75	6,80	1,430	4,30	0,949		
R	90	8,20	2,061	5,20	1,369		
B	110	10,00	3,064	6,30	2,019		
B	125	11,40	3,961	7,10	2,580		
B	140	12,70	4,939	8,00	3,248		
B	160	14,60	6,476	9,10	4,214	6,20	2,949
B	180	16,40	8,177	10,30	5,355	7,00	3,735
B	200	18,20	10,08	11,40	6,578	7,70	4,558
B	225	20,50	12,76	12,80	8,300	8,70	5,781
B	250	22,70	15,69	14,20	10,22	9,70	7,149
B	280	25,40	19,65	16,00	12,88	10,80	8,903
B	315	28,60	24,88	17,90	16,20	12,20	11,30
B	355	32,30	31,64	20,20	20,58	13,70	14,28
B	400	36,40	40,16	22,80	26,15	15,40	18,07



MAIN PROJECTS

CLIENT	PROJECTS	COATING	KM	APPLICATION
SNAM RETE GAS	HIGH PRESSURE GAS PIPELINES from 3" up to 16" (various intsallation) - ITALY	PE - INORGANIC ZINC PRIMER - EPOXY	3000	ON - SHORE
ENI-SAIPEM	GREEN STREAM - ITALY/LIBYA Fauzia & Elettra sealine - ITALY Oleodotto Sannazzaro - ITALY Armida Garibaldi Guendalina sealine - ITALY Project "Capparuccia" - ITALY Project "Bonaccia Est" - ITALY Annamaria Field Development Project - ITALY Ivana Field Development project - ITALY Naomi-Pandora sealine - ITALY Calypso sealine - ITALY	TAR FREE+CWC+EPOXY+ANODES PE+CWC+ANODES PE coated linepipes 10" PE+CWC+ANODES PE+ANODES PE PE+CWC+ANODES POLYURETHANE+CWC PURTAR+CWC PE+CWC	853	OFF - SHORE
GAS NATURAL	HIGH PRESSURE GAS PIPELINES form 3" up to 16" (various installation) - SPAIN		735	ON - SHORE
ILVA SPA	Gas Pipeline "Busso-Palliano" (Società Gasdotti Italia) - ITALY Wafa Field - Mellitah Oil & Gas B.V. - LIBYA Caspian Pipeline Consortium (Saipem-Chevron) - CASPIAN SEA Rhourde Nouss Project - ALGERIA La Rabida Refinery Sealine Project - SPAIN OLT Off-Shore Lng Toscana Gas Terminal/Snam Rete Gas - ITALY LNG Adriatic terminal (Snamprogetti-Exxonmobil) - ITALY Sealine for Zuetitina Oil Company - LIBYA	PE+EPOXY PP FBE+CWC+ANODES PP PE/PP+CWC+ANODES CWC (50-70-90-110-120-130 mm) PE+CWC CWC (125mm)	335	OFF - SHORE
THYSSENKRUPP MANNEX GMBH	Køge Banen project (HMN Naturgas) - DENMARK Gas Pipeline Seplievo-Septemvri - BULGARIA Ren Gasoductos S.A. - PORTUGAL EPDC Belgium (Soresma) - BELGIUM	Line pipes from 3" up to 16" PE coated	125	ON - SHORE
C 4GAS FLUXYS - GRT GAZ GRDF - GDF SUEZ	HIGH PRESSURE GAS PIPELINES (various installation) - FRANCE	Line pipes from 8" up to 14" PE COATED and BARE	275	ON - SHORE
ENDESA	Gas pipelines - SPAIN Villanueva El Casar/ Villanueva Almoguera Elche Monovar - La Alguena Azaila - Albalate - Arino Y Gallur - Tauste - Ejea Reposicion Sonan	Line pipes 10" and 12"	130	ON - SHORE
ENAGAS	HIGH PRESSURE GAS PIPELINES - SPAIN	Line pipes from 3" up to 16"	1749	ON - SHORE
AGIP	Pre-insulated pipes - Val d'Agri project - ITALY		220	ON - SHORE
OTHER CLIENTS	Sea Isle 16" (API Raffineria) - ITALY Akakus Project (Sicom Italia) - LIBYA San Gottardo Tunnel (Tubificio Lombardo) - SWITZERLAND Gas pipeline Nyírgyulaj-Nyíregyháza (Argento/Sade) - HUNGARY Gas pipeline in Zappad region (CCC S.p.a.) - BULGARIA Gas pipeline (TFE) - ANGOLA Gas pipeline (Voestalpine) - SYRIA Gas pipeline Borma-Gabes (STEG) - TUNISIA Gas pipeline (OOISS) - OMAN Gas pipeline (Egypt Gas) - EGYPT	HIGH PRESSURE GAS PIPELINES from 3" up to 16" PE and PP coated	335	ON - SHORE



**RIVECO GENERALSIDER**THE GLOBAL SOLUTION
FOR PIPES AND COATINGS**Riveco GeneralSider S.p.A.****REGISTERED OFFICE & PIPE MILL**

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Registered Office: Rio de Janeiro - Brasil

Manufacturing Plant: Lorena - São Paulo State - Brasil

Riveco Uruguay

Registered Office: Montevideo - Uruguay

Riveco Russia

Registered Office: Mosca

