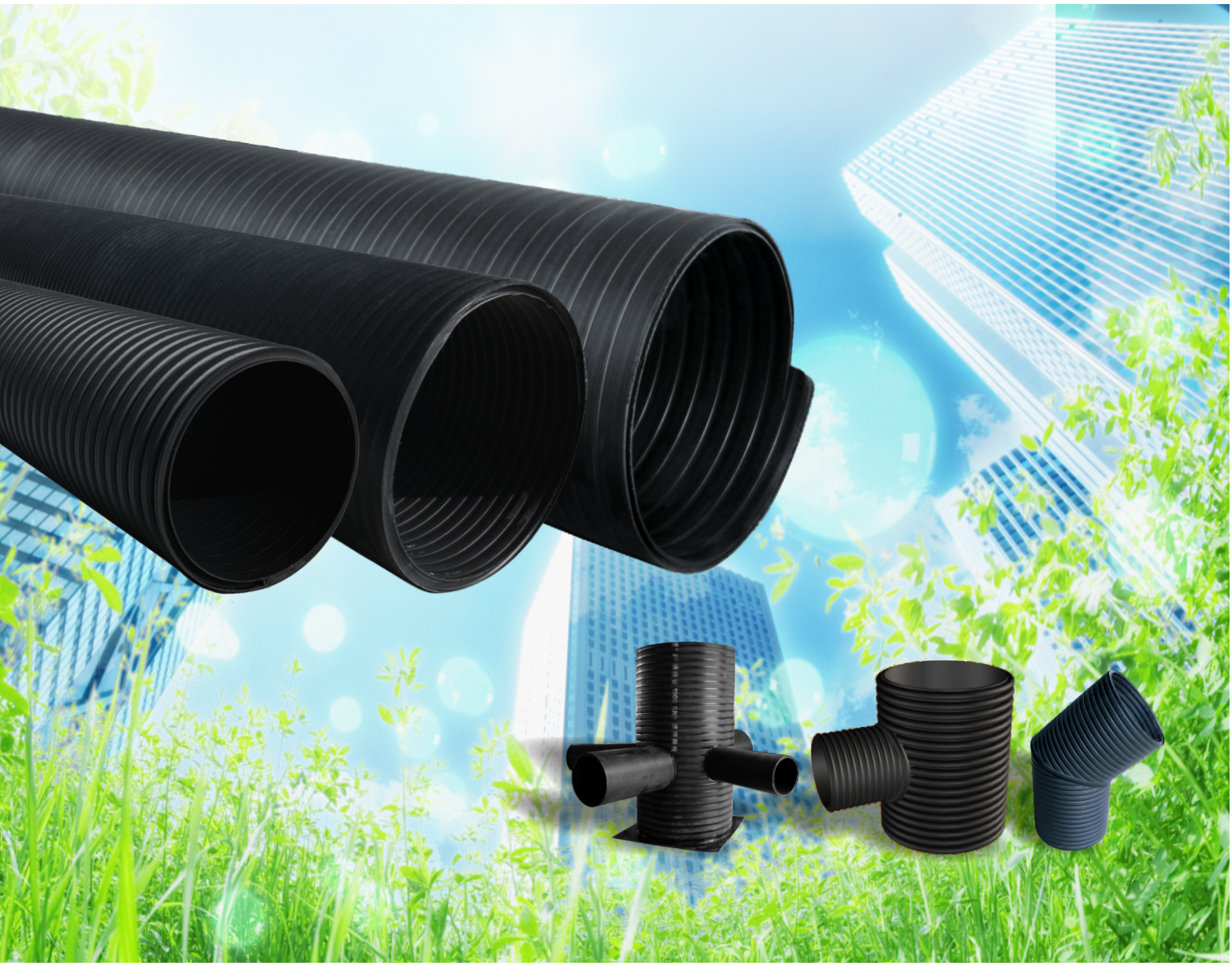
LESSO

Structured Wall Plastic Pipe and Fittings
Spirally Enwound Structure-wall Pipe



www.lesso.com

CHINA LESSO GROUP HOLDINGS LIMITED

China Lesso Group Holdings Limited (Stock Name: China Lesso, Stock Code: 02128.HK) is a large industrial group of home furnishings and building materials in China. China Lesso' s business portfolio spans plastic piping, building materials and home furnishings, environmental protection, supply-chain service platforms and the photovoltaic sector. It offers products such as pipes, photovoltaics, plumbing and sanitary ware, integral kitchen materials, integral doors and windows, aluminum formwork and smart scaffolds, water purifiers, water-proofing materials and sealants, fire-fighting equipment, valves, cables, lighting, hygiene materials, items for environmental protection, agricultural facilities, and oceanic aquaculture cages. Its sales revenue has reached RMB 32.058 billion in 2021.

With the rapid development of internationalization and globalization, China Lesso boasts more than 30 advanced production bases distributed in 18 provinces across China, and in some foreign countries. China Lesso remains committed to improving its strategic layout, broadening its sales network and expanding the market. This is how it provides products and services for customers in a timely and efficient way.

China Lesso has established its R&D center with more than 1,000 scientific researchers. The Group now possesses twenty-eight national high-tech enterprises, one national accredited enterprise technology center, two post-doctoral workstations, five China national accredited laboratories authorized by CNAS, one key enterprise laboratory of plastics molding and processing technology in Guangdong Province, and one union of Technical Innovation of Plastic Pipe Industry in Guangdong Province.

China Lesso owns over 2200 patents (some of them are pending). Some of Lesso' s scientific achievements are included in National Torch Plan Projects, National Key New Product, Scientific Achievements Promotion Projects in National Construction Industry and Government Green Procurement List. The Group has been awarded many honorary titles and prizes, such as Champion Manufacturer, China Construction Independent Science Innovation Superior Enterprise, Intellectual Property Right Preponderant Enterprise, Industrialization Demonstration Base, Outstanding Patent Owner in China, Guangdong Provincial Government Quality Prize, and the First Prize of Scientific Technological Progress in Guangdong Province, and the First Prize of Scientific Technological Progress of China Light Industry Association.

As a domestic manufacturer of extensive home furnishings and building materials, China Lesso provides over 10,000 varieties of products with all specifications. Its products are being widely used in many areas, including home decoration, civil construction, municipal water supply, drainage, power supply and telecommunications, gas supply, fire-fighting, environmental protection, agriculture, oceanic aquaculture, and photovoltaic power generation.

True to its slogan of "Envisioning the Better, Building the Future", China Lesso will honor its promise of creating a healthy, enjoyable, and sustainable environment. The Group remains committed to improvements in urban construction to create better places to live. With concerted efforts from various sectors, Lesso will fully play its role in building green, livable, and efficient cities so that people could enjoy health and happiness anytime and anywhere in their city life.

LESSO Research Institute & Testing Center

LESSO College

Training Apartment

LESSO Headquarter

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Illustration of commercial mark included in pipes's and fittings' publicity materials:
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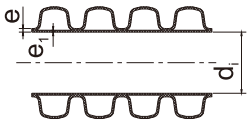
HDPE Double-Wall Corrugated Pipe

- **Material:** High Density Polyethylene
- **Size:** 110mm to 800mm
- **Ring Stiffness:** SN4 and SN8
- **Color:** black or other colors upon request
- **Standard:** BS EN13476-2:2007、BS EN13476-3:2007+A1:2009, GB/T19472-1
- **Application:** municipal sewage, rainwater discharge, floodwaters drainage, irrigation, ventilation for mine and buildings, industrial waste discharge

HDPE Double-Wall Corrugated Pipe (Plain End)



Length: 5.8m and 8m , other length upon request

HDPE

Glass Fiber Reinforced Plastics

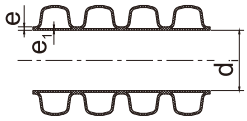
SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number (5.8m)	Outside Diameter (mm)	SAP Number (5.8m)	Outside Diameter (mm)
8020030368	110	8020030402	110
8020030374	160	8020030407	160

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number (8m)	Inside Diameter (mm)	SAP Number (8m)	Inside Diameter (mm)
	200		200
8020032168	225	8020032169	225
8020032170	300	8020032171	300
8020032172	400	8020032173	400
8020032156	500	8020032157	500
8020032159	600	8020032160	600
	700		700
	800		800

Rubber Ring	
SAP Number	Size (mm)
8020040257	110
8020040258	160
8020040259	200
8020040260	225
8020040262	300
8020040264	400
8020040265	500
8020040266	600
8020040512	700
8020040267	800

Coupling	
SAP Number	Size (mm)
8020040055	110
8020040056	160
	200
8020040057	225
8020040058	300
8020040059	400
8020040060	500
8020040064	600
	700
8020040065	800

HDPE Double-Wall Corrugated Pipe (Socket End)



Length: 6m or other length upon request

SN4 (≥4kN/m²)		Sn8 (≥8kN/m²)	
SAP Number (6m)	Inside Diameter (mm)	SAP Number (6m)	Inside Diameter (mm)
	200		200
8020032137	225	8020032138	225
8020032139	300	8020032140	300
8020032141	400	8020032142	400
8020032125	500	8020032126	500
8020032128	600	8020032129	600
	700		700
	800		800

Rubber Ring	
SAP Number	Size (mm)
	200
8020040250	225
8020040251	300
8020040252	400
8020040253	500
8020040254	600
8020040255	700
8020040256	800

Note: SN is Nominal Ring Stiffness, which reflects the ability of a pipe to resist deformation due to an external load.
Stiffness classes are identified by an SN number where a higher number indicates greater resistance to deflection.

HDPE Double-Wall Corrugated Pipe Fittings （Fabricated Fittings）

45° Elbow

SAP Number	Size (mm)
8020040109	225
8020040110	300
8020040111	400
8020040112	500
8020040113	600
8020040114	800

*45°Elbow and other elbow upon the request

90° Elbow

SAP Number	Size (mm)
8020040085	225
8020040086	300
8020040087	400
8020040088	500
8020040089	600
8020040090	800

Tee

SAP Number	Size (mm)
8020040203	225
8020040204	300
8020040205	400
8020040206	500
8020040207	600
8020040208	800

Reducing Tee

SAP Number	Size (mm)
8020040152	300×225
8020040153	400×225
8020040154	400×300
8020040155	500×225
8020040156	500×300
8020040157	500×400
8020040158	600×225
8020040159	600×300
8020040160	600×400
8020040161	600×500
8020040455	800×225
8020040456	800×300
8020040457	800×400
8020040162	800×500
8020040163	800×600

Cross

SAP Number	Size (mm)
8020040209	225
8020040210	300
8020040211	400
8020040212	500
	600
	800

Reducing Cross

SAP Number	Size (mm)
8020040183	300×225
8020040478	400×225
8020040184	400×300
8020040479	500×225
8020040480	500×300
8020040185	500×400
8020040481	600×225
8020040482	600×300
8020040186	600×400
8020040483	600×500
8020040484	800×225
8020040485	800×300
8020040486	800×400
8020040487	800×500
8020040488	800×600

Reducer

SAP Number (Homocentric)	SAP Number (Eccentric)	Size (mm)
8020040240	8020040247	300×225
8020040241	8020040500	400×225
8020040242	8020040501	400×300
8020040492	8020040502	500×225
8020040243	8020040503	500×300
8020040244	8020040248	500×400
8020040493	8020040504	600×225
8020040494	8020040505	600×300
8020040495	8020040506	600×400
8020040245	8020040249	600×500
8020040496	8020040507	800×225
8020040497	8020040508	800×300
8020040498	8020040509	800×400
8020040499	8020040510	800×500
8020040246	8020040511	800×600

Tensioner

SAP Number	Size
8020020274	2t
8020020275	3t

HDPE Double -Wall Corrugated Pipe Fittings (Injection Molded Fittings)

45°Elbow

SAP Number	Size (mm)
8020040108	110

Tee

SAP Number	Size (mm)
8020040201	110

90°Elbow

SAP Number	Size (mm)
8020040083	110

45° Wye

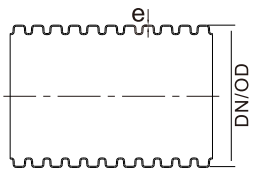
SAP Number	Size (mm)
8020040234	110

Plug

SAP Number	Size (mm)
8020040238	110

HDPE Single-Wall Corrugated Pipe

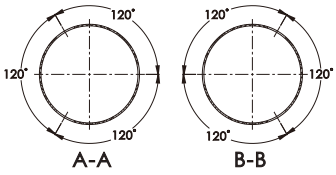
Length: 5.8m or other length upon request

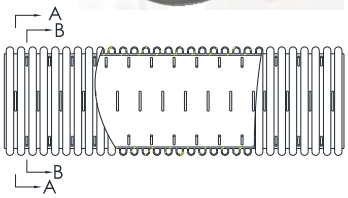


SAP Number outside diameter (5.8m)	Size (mm)
8020032410	63
8020031346	75

HDPE Double-Wall Corrugated Pipe--Infiltration Pipe

Length: 6m or other length upon request



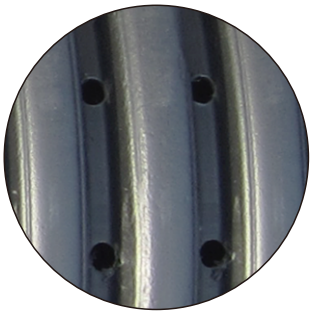


SN4 (≥4kN/m²)			SN8 (≥8kN/m²)		
SAP Number (6m)	Size (mm)	Number of Slotting Row	SAP Number (6m)	Size (mm)	Number of Slotting Row
8020030703	110	6 rows	8020030188	110	6 rows

Illustration: Φ110groove width is 1.5mm; the length of the groove is united as 20mm, the tolerance is around ±5mm, specific dimensions can be produced upon request.

HDPE Double-wall Corrugated Holing Pipe

Length: 8m or other length upon request



SN4 (≥4kN/m²)		
SAP Number outside diameter (8m)	Outside Diameter (mm)	Number of Holing Row
8020031241	160	7 rows
	200	8 rows
8020031242	225	8 rows
8020031243	300	9 rows

SN8 (≥8kN/m²)		
SAP Number outside diameter (8m)	Outside Diameter (mm)	Number of Holing Row
8020031244	160	7 rows
	200	8 rows
8020031245	225	8 rows
8020031246	300	9 rows

HDPE Drainage Pipe for HDD

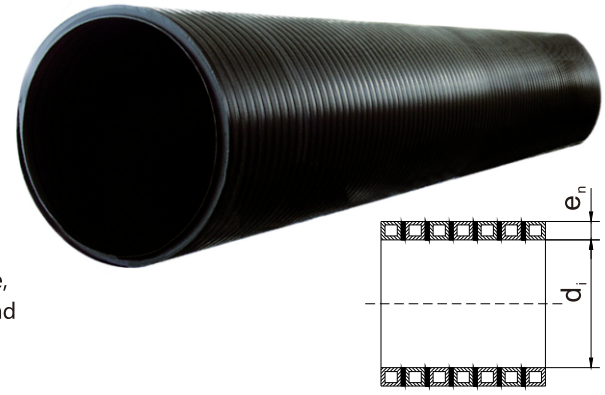
Length: 12m or other length upon request

SDR21 Ring stiffness SN8		
SAP Number (12M)	Size (mm)	Nominal Wall Thickness (mm)
8020031056	160	7.7
8020031058	180	8.6
8020031060	200	9.6
8020031062	225	10.8
8020031064	250	11.9
8020031066	280	13.4
8020031068	315	15.0
8020031070	355	16.9
8020031072	400	19.1
8020031074	450	21.5
8020031076	500	23.9
8020031078	560	26.7
8020031080	630	30
8020031082	710	33.9
8020031084	800	38.1

SDR17 Ring stiffness SN16		
SAP Number (12M)	Size (mm)	Nominal Wall Thickness (mm)
8020030997	160	9.5
8020030999	180	10.7
8020031001	200	11.9
8020031003	225	13.4
8020031005	250	14.8
8020031007	280	16.6
8020031009	315	18.7
8020031011	355	21.1
8020031013	400	23.7
8020031015	450	26.7
8020031017	500	29.7
8020031018	560	33.2
8020031020	630	37.4
8020031022	710	42.1
8020031024	800	47.4

SDR13.6 Ring stiffness SN32		
SAP Number (12M)	Size (mm)	Nominal Wall Thickness (mm)
8020031026	160	11.8
8020031028	180	13.3
8020031030	200	14.7
8020031032	225	16.6
8020031034	250	18.4
8020031036	280	20.6
8020031038	315	23.2
8020031040	355	26.1
8020031042	400	29.4
8020031044	450	33.1
8020031046	500	36.8
8020031048	560	41.2
8020031050	630	46.3
8020031052	710	52.2
8020031054	800	58.8

SPIRAL ENHANCED PIPE PE A



- **Material:** High Density Polyethylene
- **Size:** 200mm to 2400mm
- **Ring Stiffness:** SN4, SN8 and SN12.5
- **Color:** black or other colors upon request.
- **Length:** 6m,11.8m or other length upon request.
- **Standard:** BS EN13476-2:2007、BS EN13476-3:2007+A1:2009, GB/T19472-1
- **Application:** municipal sewage, rainwater discharge, floodwaters drainage, irrigation, ventilation for mine and buildings, industrial waste discharge and communication protecting.
- **Specification 520 is non-standard product.**

SN4 (≥4kN/m²)	
SAP Number (6m)	Inside Diameter (mm)
8020030235	200
8020030239	250
8020030243	300
8020030245	350
8020030248	400
8020030250	450
8020030254	500
	520
8020030258	600
8020030261	700
8020030265	800
8020030269	900
8020030218	1000
8020031961	1100
8020030866	1200
	1300
8020030870	1400
8020030872	1500
8020030230	1600
	1700
8020030879	1800
	2000
	2200

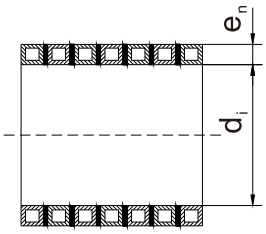
SN8 (≥8kN/m²)	
SAP Number (6m)	Inside Diameter (mm)
8020030290	200
	250
8020030295	300
8020030297	350
8020030301	400
8020030305	450
8020030308	500
	★ 520
8020030310	600
8020030315	700
8020030317	800
8020030957	900
8020030272	1000
8020031962	1100
8020030912	1200
	1300
8020030281	1400
	1500
8020030921	1600
	1700
8020030926	1800
	2000
8020033460	2200

SN12.5 (≥12.5kN/m²)	
SAP Number (8m)	Inside Diameter (mm)
8020030201	200
8020030856	250
8020030203	300
8020030858	350
8020030206	400
8020030859	450
8020030208	500
8020030862	520
8020030210	600
8020030212	700
8020030213	800
8020030214	900
8020030197	1000
8020030198	1100
8020030199	1200
8020030200	1300

SPIRAL ENHANCED PIPE PE A (for HDD)

HDD: Horizontal Directional Drilling

SAP Number (8m)	Inside Diameter (mm)
8020031088	200
8020031089	250
8020030515	300
8020031091	350
8020031095	400
8020031097	450
8020031099	500
8020031104	600
8020031106	700
8020030508	800
8020031109	900
8020031086	1000



* The product mold marked as "★" on this page has not been improved, please note.

Spiral Enhanced Pipe (Socket End)

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)		SN12.5 (≥12.5kN/m²)	
SAP Number (8m)	Inside Diameter (mm)	SAP Number (8m)	Inside Diameter (mm)	SAP Number (8m)	Inside Diameter (mm)
8020030770	200	8020030780	200	8020030763	200
8020030771	250	8020030781	250		★ 250
8020030772	300	8020030782	300	8020030764	300
8020030773	350	8020030783	350		★ 350
8020030774	400	8020030784	400	8020030765	400
8020030775	450	8020030785	450		★ 450
8020030776	500	8020030786	500	8020030766	500
8020030777	600	8020030787	600	8020030767	600
8020030778	700	8020030788	700	8020030768	700
8020030779	800	8020030789	800	8020030769	800

Seal Ring

SAP Number	Inside Diameter (mm)	Scope of Application
8020040010	200	SN4、SN8、SN12.5
8020040402	250	SN4
8020040014		SN8
8020040403	300	SN4
8020040408		SN8、SN12.5
8020040404	350	SN4
8020040410		SN8
8020040405	400	SN4
8020040012		SN8、SN12.5
8020040406	450	SN4
8020040411		SN8
8020040011	500	SN4
8020040013		SN8、SN12.5
8020040400	600	SN4、SN12.5
8020040412		SN8
8020040407	700	SN4
8020040409		SN8、SN12.5
8020040401	800	SN4、SN12.5
8020040413		SN8

* The product mold marked as "★" on this page has not been improved, please note.

SPIRAL ENHANCED PIPE PE A Fittings

45°Elbow

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040091	200	8020040099	200
8020040092	250	8020040100	250
8020040093	300	8020040101	300
8020040094	350	8020040102	350
8020040095	400	8020040103	400
8020040429	450	8020040431	450
8020040096	500	8020040104	500
8020040430	600	8020040105	600
8020040097	700	8020040106	700
8020040098	800	8020040432	800
	900	8020040107	900

* 45°Elbow and other elbow upon the request

90°Elbow

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040067	200	8020040076	200
8020040068	250	8020040077	250
8020040069	300	8020040078	300
8020040070	350	8020040079	350
8020040071	400	8020040080	400
8020040072	450		450
8020040073	500	8020040081	500
8020040074	600	8020040082	600
8020040433	700	8020040436	700
8020040075	800	8020040437	800
8020040434	900	8020040624	900
8020040318	1000	8020040435	1000

Tee

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040187	200	8020040194	200
8020040489	250	8020040195	250
8020040188	300	8020040196	300
8020040189	350	8020040197	350
8020040190	400	8020040198	400
8020040191	450	8020040490	450
8020040192	500	8020040199	500
8020040193	600	8020040200	600

Reducing Tee

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040439	250×200	8020040137	250×200
8020040119	300×200	8020040138	300×200
8020040120	300×250	8020040139	300×250
8020040121	350×200	8020040140	350×200
8020040122	350×250	8020040141	350×250
8020040123	350×300		350×300
8020040124	400×200	8020040441	400×200
8020040125	400×250	8020040142	400×250
8020040126	400×300	8020040143	400×300

SPIRAL ENHANCED PIPE PE A Fittings

Reducing Tee

Continued

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040127	400×350	8020040144	400×350
	450×200	8020040442	450×200
	450×250	8020040443	450×250
8020040128	450×300	8020040444	450×300
	450×350	8020040145	450×350
	450×400	8020040445	450×400
8020040129	500×200	8020040146	500×200
8020040130	500×250	8020040147	500×250
8020040131	500×300	8020040148	500×300
8020040132	500×350	8020040149	500×350
8020040133	500×400	8020040446	500×400
	500×450	8020040447	500×450
8020040440	600×200	8020040448	600×200
	600×250	8020040449	600×250
	600×300	8020040150	600×300
	600×350	8020040450	600×350
8020040134	600×400	8020040451	600×400
	600×450	8020040151	600×450
8020040135	600×500	8020040452	600×500
		8020040453	800×200
		8020040454	800×400

Reducing Cross

SN4 (≥4kN/m²)		SN8 (≥8kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
8020040164	250×200	8020040176	250×200
8020040165	300×200	8020040177	300×200
8020040166	300×250	8020040178	300×250
8020040167	350×200	8020040179	350×200
	350×250	8020040466	350×250
8020040168	350×300		350×300
8020040169	400×200	8020040467	400×200
8020040170	400×250	8020040180	400×250
8020040458	400×300	8020040468	400×300
8020040171	400×350	8020040181	400×350
	450×200	8020040469	450×200
	450×250	8020040470	450×250
	450×300	8020040471	450×300
	450×350	8020040472	450×350
	450×400	8020040473	450×400
	500×200	8020040474	500×200
8020040172	500×250	8020040182	500×250
8020040459	500×300		500×300
	500×350	8020040475	500×350
	500×400	8020040476	500×400
	500×450	8020040477	500×450
8020040173	600×200	8020040640	600×200
8020040174	600×250		600×250
8020040175	600×300		600×300
8020040460	600×350		600×350
8020040461	600×400		600×400
8020040462	600×450		600×450
8020040463	600×500		600×500
8020040464	700×250		700×250
8020040465	900×300		900×300

SPIRAL ENHANCED PIPE PE A Fittings

Electro Fusion Belt (with PE rod)

SAP Number	Size (mm)
8020040025	300
8020040026	350
8020040027	400
8020040028	450
8020040029	500
8020040030	600
8020040031	700
8020040032	800
8020040033	900
8020040016	1000
8020040017	1100
8020040018	1200
8020040019	1300
8020040020	1400
8020040021	1500
8020040022	1600
8020040023	1800
8020040015	2000
8020040024	2200
8020031924	2400

Leakage-Proof Rubber Ring

SAP Number	Size (mm)
8020040223	200
8020040224	250
8020040225	300
8020040226	350
8020040227	400
8020040228	450
8020040229	500
8020040230	600
8020040231	700
8020040232	800
8020040233	900
8020040215	1000
8020040216	1100
8020040217	1200
8020040218	1300
8020040219	1400
8020040220	1500
8020040221	1600
8020040222	1800
8020040214	2000
8020040491	2200

Modified Electro Fusion Belt for HDD (with PE rod)

SAP Number	Size (mm)
8020040570	300
8020040571	350
8020040572	400
8020040573	450
8020040574	500
8020040575	600
8020040576	700
8020040577	800
8020040578	900
8020040568	1000

Shrinkage Belt

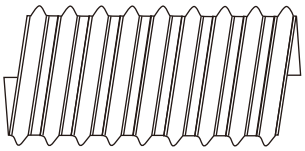
SAP Number	Size (mm)
8020040034	200
8020040035	250
8020040036	300
8020040037	350
8020040038	400
8020040039	450
8020040040	500
8020040041	600
8020040042	700
8020040043	800

Electro Fusion Belt for HDD (with PE rod)

SAP Number	Size (mm)
8020040277	200
8020040547	250
8020040278	300
8020040279	350
8020040280	400
8020040548	450
8020040281	500
8020040282	600
8020040283	700
8020040284	800
8020040549	900
8020040276	1000

Metal Reinforced PE Spiral Corrugated Pipe

- **Material:** High Density Polyethylene
- **Size:** 500mm to 2400mm
- **Ring Stiffness:** SN8, SN12.5 and SN16
- **Color:** black or other colors upon request
- **Length:** 6m or other length upon request
- **Application:** municipal sewage, rainwater discharge, floodwaters drainage, irrigation, industrial waste discharge



SN8 (⩾8kN/m²)		SN12.5 (⩾12.5kN/m²)		SN16 (⩾16kN/m²)	
SAP Number (6m)	Inside Diameter (mm)	SAP Number (6m)	Inside Diameter (mm)	SAP Number (6m)	Inside Diameter (mm)
8020030128	500	8020031924	300	8020031449	300
8020030135	600	8020031925	400	8020031448	400
8020030142	700	8020031428	500		500
8020030149	800	8020030072	600	8020030634	600
8020030684	900	8020031633	700	8020030635	700
8020030089	1000	8020030077	800		800
8020030094	1100	8020031928	900		900
8020030098	1200	8020031467	1000		★1000
8020030644	1300		1100		★1100
8020030107	1400	8020030454	1200		1200
8020030115	1500		1300		★1300
8020031437	1600	8020030479	1400		★1400
8020030663	1800	8020030055	1500		★1500
8020030666	2000	8020030465	1600		★1600
8020030668	2200	8020030481	1800		
8020031512	2400	8020030066	2000		

* The product mold marked as "★" on this page has not been improved, please note.

Metal Reinforced PE Spiral Corrugated Pipe' Accessories

Shrinkage Belt

SAP Number	Size (mm)
8020030176	500
8020030177	600
8020030178	700
8020040054	800
8020030179	900
8020030170	1000
8020030171	1100
8020030172	1200
8020040053	1300
8020030173	1400
8020030174	1500
8020030175	1600

PE Welding Rod

SAP Number	Size (mm)
8020040009	4

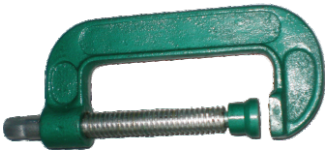
Tensioner

SAP Number	Size
8020020275	3t

Electro Fusion Belt (Narrow)

SN 8 (≥8kN/m²)		SN 12.5 (≥12.5kN/m²)	
SAP Number	Size (mm)	SAP Number	Size (mm)
	500	8020040295	500
8020040287	600	8020040567	600
8020040618	700		
8020040308	800		
	900		
8020040047	1000	8020040289	1000
8020040048	1100	8020040290	1100
8020040049	1200	8020040291	1200
8020040050	1300	8020040292	1300
8020040051	1400	8020040293	1400
8020040052	1500	8020040294	1500
8020040305	1600	8020040046	1600
8020040306	1800	8020040304	1800
8020040296	2000		2000
8020040307	2200		
	2400		

G Clamp

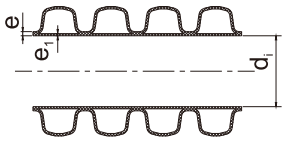


SAP Number	Note
4020005175	

Note: Please choose the appropriate electro fusion belt (narrow) according to the above application range strictly as the distance between the crests of the pipe is vary from the different ring stiffnesses.

PVC-U Double-Wall Corrugated Pipe (Socket End)

- **Material:** Unplasticized Ploy (Vinyl Chloride)
- **Size:** 63mm to 1000mm
- **Ring Stiffness:** SN4 and SN8
- **Color:** cream or other colors upon request
- **Standard:** ISO 21138-2, ISO 21138-3, GB/T18477-1
- **Application:** municipal sewage, rainwater discharge, flood waters drainage, irrigation, ventilation for mine and buildings, industrial waste discharge and communication protecting



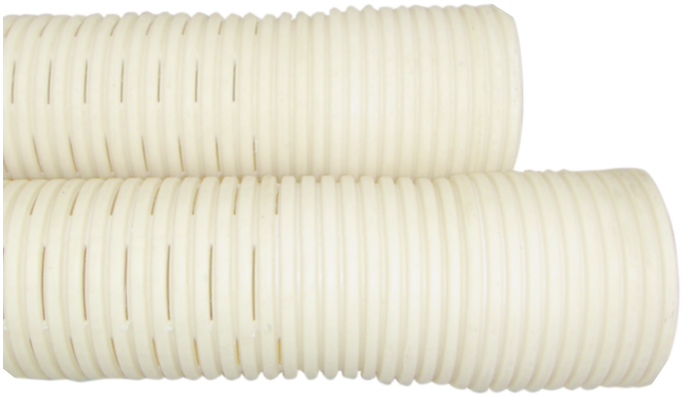
Length: 5.8m,6m or other length upon request

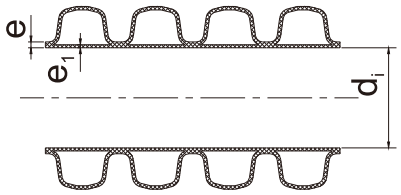
SN4 (≥4kN/m²)	
SAP Number (5.8m)	Outside Diameter (mm)
	110
8020050205	160
8020050206	200
	250
8020050208	315
8020050209	400
8020050213	500
8020050214	630
8020050261	800
	1000

SN8 (≥8kN/m²)	
SAP Number (5.8m)	Outside Diameter (mm)
	63
	75
8020050323	90
8020050219	110
8020050125	160
8020050044	200
8020050293	250
8020050050	315
8020050053	400
8020050057	500
8020050326	630
8020050327	800
8020050262	1000

Rubber Ring	
SAP Number	Size(mm)
8020060022	63
8020060024	75
8020060026	90
8020060010	110
8020060011	160
8020060013	200
8020060014	250
8020060016	315
8020060018	400
8020060020	500
8020060023	630
8020060025	800
8020060009	1000

PVC-U Double-Wall Corrugated Pipe -- Infiltration Pipe





Length: 6m or other length upon request

Outside diameter (mm)	4kN/m²		8kN/m²	
	SAP Number(6m)	Number of Slotting Row	SAP Number(6m)	Number of Slotting Row
110	8020050074	1	8020050075	1
	8020050077	2	8020050079	2
	8020050081	3	8020050084	3
	8020050087	4	8020050091	4
	8020050094	5	8020050097	5
160		1		1
	8020050078	2		2
	8020050082	3	8020050085	3
	8020050088	4	8020050092	4
	8020050095	5	8020050098	5
200		1	8020050076	1
		2	8020050080	2
	8020050083	3	8020050086	3
	8020050089	4	8020050093	4
	8020050096	5	8020050099	5

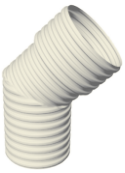
Slotting regulation for PVC-U double-wall corrugated pipe--half infiltration pipe:

1. Slotting for one row;
2. Slotting for two rows in 1/3circle(Slotting in a trough between rows);
3. Slotting for three rows in 2/5circle(Slotting in triangle);
4. Slotting for four rows in 1/2circle(Slotting in triangle);
5. Slotting for five rows in 2/3circle(Slotting in triangle);
6. Slotting for six rows in 3/4circle(Slotting in triangle).

Illustration: Φ110groove width is 1.0mm; Φ160groove width is 1.2mm; Φ200groove width is 1.5mm; the length of the groove is united as 40mm, the tolerance is around ±3mm, specific dimensions can be produced upon request.

PVC-U Double-Wall Corrugated Pipe Fittings

45° Elbow



	SAP Number	Size (mm)
Molding 45° Elbow	8020060068	110
	8020060069	160
	8020060070	200
Welding 45° Elbow	8020060071	250
	8020060072	315
	8020060074	400
	8020060075	500
	8020060076	630

90° Elbow

	SAP Number	Size (mm)
Molding Elbow	8020060060	110
	8020060061	160
	8020060062	★ 200
Welding Elbow	8020060063	250
	8020060064	315
	8020060065	400
	8020060066	500
	8020060067	630

Coupling

SAP Number	Size (mm)
8020060126	63
8020060128	75
8020060129	90
8020060119	110
8020060120	160
8020060121	200
8020060122	250
8020060123	315
8020060124	400
8020060125	500
8020060127	630

Tee

	SAP Number	Size (mm)
Molding Tee	8020060027	110
	8020060028	160
	8020060029	200
Welding Tee	8020060160	200
	8020060031	250
	8020060033	315
	8020060034	400
	8020060036	500
	8020060161	630

Reducer

SAP Number	Size (mm)
8020060077	160×110
8020060078	200×110
8020060079	200×160
8020060080	250×110
8020060081	250×160
8020060082	250×200
8020060083	315×110
8020060084	315×160
8020060085	315×200
8020060086	315×250
8020060087	400×110
8020060088	400×160
8020060089	400×200
8020060090	400×250
8020060091	400×315
8020060092	500×110
8020060093	500×160
8020060094	500×200
8020060095	500×250
8020060096	500×315
8020060097	500×400

Eccentric Reducer

SAP Number	Size (mm)
8020060098	160×110
8020060099	200×110
8020060100	200×160
8020060101	250×110
8020060102	250×160
8020060103	250×200
8020060104	315×110
8020060105	315×160
8020060106	315×200
8020060107	315×250
8020060108	400×110
8020060109	400×160
8020060110	400×200
8020060111	400×250
8020060112	400×315
8020060113	500×110
8020060114	500×160
8020060115	500×200
8020060116	500×250
8020060117	500×315
8020060118	500×400
8020060163	630×400

PVC-U Double-Wall Corrugated Pipe Fittings

Reducing Tee

Molding Reducing Tee

Welding Reducing Tee

SAP Number	Size (mm)
8020060038	160×110
8020060039	200×110
8020060040	200×160
8020060041	250×110
8020060042	250×160
8020060043	250×200
8020060044	315×110
8020060045	315×160
8020060046	315×200
8020060047	315×250
8020060048	400×110
8020060049	400×160
8020060050	400×200
8020060051	400×250
8020060052	400×315
8020060053	500×110
8020060054	500×160
8020060055	500×200
8020060056	500×250
8020060057	500×315
8020060058	500×400
8020060059	630×400

Tensioner

SAP Number	Size
8020060130	2T
8020060131	3T

Product Introduction:

LESSO Spirally Enwound Structure-wall Pipe PE B(Krah Pipe),The PP is used as the auxiliary support structure, the PE as the inner layer material is made by spirally enwound forming technology, the inner wall is smooth, the outer wall of pipe is circular hollow spiral rib, which belongs to flexible pipe.

Product implementation national standard GB/T 19472.2-2017<Polyethylene structure-wall piping systems for underground usage — Part2: Polyethylene spirally enwound structure-wall pipes>.The construction and acceptance compliance (CECS164: 2004)<Technical Specification for buried PE pipeline of sewer engineering>.

High density polyethylene is used as raw material, light weight, good chemical stability, corrosion resistance, aging resistance, long life, good flexibility and strong impact resistance. The service life can reach 50 years.

The product has been widely used in municipal, electric power, petrochemical, wharf, airport, industrial and mining enterprises and other fields of drainage sewage system, is a reinforced concrete pipe and cast iron pipe and other traditional drainage sewage pipe ideal replacement products.

As a mature product, high density polyethylene (HDPE) structure-wall pipe has been widely used in foreign countries, and has also been rated as a key promotion product by the Ministry of Development in China.

Product characteristics and advantages:

1. The connection quality of pipe interface is high, and the connection mode of zero leakage
pipe can be realized by socket type electro fusion connection, and the interface is the same material socket fusion connection. It is convenient and quick to realize zero leakage in pipeline system.

2. High nominal ring stiffness, and strong match for engineering
According to different engineering conditions and computer calculation software, the nominal ring stiffness of pipe can reach 20kN/m². The best pipe products and fittings suitable for engineering conditions can be selected.

3. Wide product diameter range.
HDPE pipe can be produced in the current pipe diameter range of DN200-DN3000, pipe standard length of 6000 mm, can produce more than 1000 mm, Any length of pipe below 6000 mm.

4. Good stability of piping system
The circular external rib structure not only increases the nominal ring stiffness of the pipe, but also has root resistance, which solves the problem of longitudinal displacement of the pipe. And the pipe itself is flexible, can achieve side welding while backfilling construction.

Applications:

municipal water supply and drainage, large-scale water conservancy projects, petroleum industry, coal industry, chemical engineering, environmental protection engineering, electric power engineering, etc.

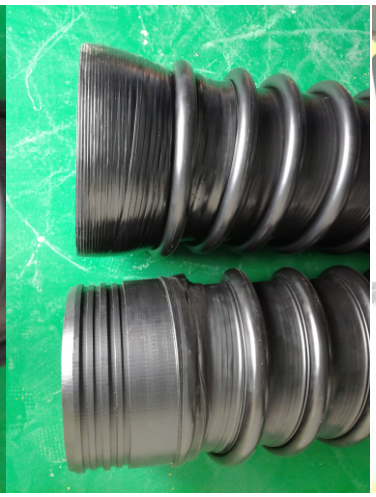
Physical performance indicators:

Item		Performance Index
Nominal Ring Stiffness (kN/m²)	SN4	≥4
	SN6.3	≥6.3
	SN8	≥8
	SN10	≥10
	SN12.5	≥12.5
	SN16	≥16
Impact Properties		TIR≤10%
Ring flexibility		The specimen is smooth, no reverse bending, no rupture, and the tear at the beginning of the rib cutting is allowed to be less than 0.075 DN/ID or 75 mm (Take the minimum).
Creep Ratio		≤4
Tension At Weld /N	DN/ID≤300	≥380
	400≤DN/ID≤500	≥510
	600≤DN/ID≤700	≥760
	800≤DN/ID≤1700	≥1020
	1800≤DN/ID≤2400	≥1428
	DN/ID≥2500	≥2040

Pipe Specifications:

1. The products according to GB/T 19472.2-2017 Type B Structure-wall pipe standards for production;
2. The grade of our company products mainly produces nominal ring stiffness is SN4/6.3/8/10/12.5, SN16 and higher grade are also available upon request;
3. The product color is generally black, can also be agreed between the supply and demand parties;
4. The pipe length is generally 6 m, can also be agreed between the supply and demand parties;
5. This page won the "★" product mold has not been improved, please note.

Size / Specifications	Minimum Average Inner Diameter, dim,min(mm)	Minimum Inner Wall Thickness e_4 ,min(mm)	Minimum Inner Wall Thickness e_2 ,min(mm)	Minimum Spigot Wall Thickness e_1 ,min(mm)
DN200	195	1.5	5.3	5.9
DN300	294	2.0	8.0	8.9
DN400	392	2.5	10.7	11.9
DN500	490	3.0	13.4	14.9
DN600	588	3.5	13.7	15.2
DN700	673	4.0	13.7	15.2
DN800	785	4.5	13.7	15.2
DN900	885	5.0	13.7	15.2
DN1000	985	5.0	13.7	15.2
DN1100	1085	5.0	13.7	15.2
DN1200	1185	5.0	13.7	15.2
DN1300	1285	5.0	13.7	15.2
DN1400	1385	5.0	13.7	15.2
DN1500	1485	5.0	13.7	15.2
DN1600	1585	5.5	13.7	15.2
DN1700	1685	5.5	13.7	15.2
★ DN1800	1785	6.0	13.7	15.2
DN2000	1955	6.0	13.7	15.2



Product Introduction:

LESSO Spirally Enwound Structure-wall Pipe PE B(D)(Slotted Krah pipe) takes PP pipe as auxiliary supporting structure, PE as inner layer material, it is made by hot spirally enwound forming technology, and the inner wall is smooth. The outer wall is a circular hollow spiral rib pipe, which belongs to flexible pipe. The characteristic of the product is that there is no copper wire at the socket, the cutting slot at the socket is used to place the sealing ring, and the connection mode is the socket interface connected by the double elastic seal rubber ring.

Product implementation national standard GB/T 19472.2-2017<Polyethylene structure-wall piping systems for underground usage—Part2: Polyethylene spirally enwound structure-wall pipes>.The design and selection based on German static force calculation standard ATV127,The construction and acceptance compliance (CECS164：2004)<Technical Specification for buried PE pipeline of sewer engineering>.

High density polyethylene is used as raw material, light weight, good chemical stability, corrosion resistance, aging resistance, long life, good flexibility and strong impact resistance.

The product has been widely used in municipal, electric power, petrochemical, wharf, airport, industrial and mining enterprises and other fields of drainage sewage system, is a reinforced concrete pipe and cast iron pipe and other traditional drainage sewage pipe ideal replacement products.

As a mature product, high density polyethylene (HDPE) structure-wall pipe has been widely used in foreign countries, and has also been rated as a key promotion product by the Ministry of Development in China.

Product characteristics and advantages:

1. The pipe is used double elasticity seal rubber ring connection, the sealing performance is superior.
The pipe connection adopts double elasticity sealing rubber ring connection socket joint, high sealing.

2. Reliable pipe connection, long life, simple and fast.
The connection mode of pipe is reliable and firm, the service life of sealing ring is long, and the operation is simple and fast.

3. The pipe is formed by hot spirally enwound forming, high weld strength and no internal stress.
Compared with the spirally enwound pipe and the metal reinforced pipe, the krah pipe is air-cooled formed, without internal stress, shaped by the inner wall mould, smooth inner surface and low fluid resistance coefficient.

4. High nominal ring stiffness, and strong match for engineering.
According to different engineering conditions and computer calculation software, the nominal ring stiffness of pipe can reach 20kN/m2. The best pipe products and fittings suitable for engineering conditions can be selected.

Applications:

Applications: municipal water supply and drainage, large-scale water conservancy projects, petroleum industry, coal industry, chemical engineering, environmental protection engineering, electric power engineering, etc.

Physical performance indicators:

Item		Performance Index
Nominal Ring Stiffness (kN/m²)	SN4	≥4
	SN6.3	≥6.3
	SN8	≥8
	SN10	≥10
	SN12.5	≥12.5
	SN16	≥16
Impact Properties		TIR≤10%
Ring flexibility		The specimen is smooth, no reverse bending, no rupture, and the tear at the beginning of the rib cutting is allowed to be less than 0.075 DN/ID or 75 mm (Take the minimum).
Creep Ratio		≤4
Tension At Weld /N	DN/ID≤300	≥380
	400≤DN/ID≤500	≥510
	600≤DN/ID≤700	≥760
	800≤DN/ID≤1700	≥1020
	1800≤DN/ID≤2400	≥1428
	DN/ID≥2500	≥2040

Pipe Specifications:

1. The products according to GB/T 19472.2-2017 Type B Structure-wall pipe standards for production;
2. The grade of our company products mainly produces nominal ring stiffness is SN4/6.3/8/10/12.5. SN16 and higher grade are also available upon request;
3. The product color is generally black, can also be agreed between the supply and demand parties;
4. The pipe length is generally 6 m, can also be agreed between the supply and demand parties;

Size / Specifications	Minimum Average Inner Diameter, dim,min(mm)	Minimum Inner Wall Thickness e_4 ,min(mm)	Minimum socket thickness e_2 ,min(mm)	Minimum Spigot Wall Thickness e_1 ,min(mm)
DN200	195	1.5	5.3	5.9
DN300	294	2.0	8.0	8.9
DN400	392	2.5	10.7	11.9
DN500	490	3.0	13.4	14.9
DN600	588	3.5	13.7	15.2
★ DN700	673	4.0	13.7	15.2
DN800	785	4.5	13.7	15.2

Product Introduction:

LESSO Spirally Enwound Structure-wall Pipe PE C (T)(flexible krah pipe), the socket is first molded, then the injection pipe is fastened into the steel mould, then the PP pipe is used as the auxiliary support structure. PE as the inner layer material is made by the process of spirally enwound forming pipe body.smooth inner wall and the outer wall is circular hollow spiral rib.which belongs to flexible pipe. The socket adopts double sealing ring connection

Product implementation national standard GB/T 19472.2-2017<Polyethylene structure-wall piping systems for underground usage—Part2: Polyethylene spirally enwound structure-wall pipes>.The construction and acceptance compliance (CECS164：2004)<Technical Specification for buried PE pipeline of sewer engineering>.

High density polyethylene resin (HDPE) is a kind of environmental protection and safety product. It has the advantages of light weight, strong bearing capacity, high joint quality, long life, corrosion resistance, high ring stiffness and convenient construction.It’ s currently buried sewage, drainage of the preferred pipe.

Product characteristics and advantages:

1. The connection of pipe joint is convenient and can be connected directly with injection inspection chamber.
Flexible sealing ring connection, easy installation, high construction efficiency, can adapt to the installation of rain water environment; socket injection molding, good interchangeability, direct insertion, no electric heating equipment, save installation costs;
Can be directly connected with the injection inspection chamber produced by the company.

2. High nominal ring stiffness, and strong match for engineering
According to different engineering conditions, the nominal ring stiffness of pipe can reach 20kN/m², the best pipe suitable for engineering conditions and complete inspection chamber fittings can be selected.

3. Wide product diameter range, flexible joint
The pipe can be produced in the DN300-DN1400 of the national standard, the normal effective length of the pipe is 6 meters, and the pipe can be produced within 3-6 meters; The two ends of the pipe can be socketed or double spigot.

Physical performance indicators:

Item	Performance Index	
Nominal Ring Stiffness (kN/m²)	SN4	≥4.0
	SN6.3	≥6.3
	SN8	≥8.0
	SN10	≥10
	SN12.5	≥12.5
Impact Properties	≤10%	
Ring flexibility	The specimen is smooth, no reverse bending, no rupture, and the tear at the beginning of the rib cutting is allowed to be less than 0.075 DN/ID or 75 mm (Take the minimum).	
Creep Ratio	≤4	
Tension At Weld /N	DN/ID≤300 400≤DN/ID≤500 600≤DN/ID≤700 800≤DN/ID≤1700	≥380 ≥510 ≥760 ≥1020

Pipe Specifications:

1. The grade of our company products mainly produces nominal ring stiffness is SN4/6.3/8/10/12.5. SN16 and higher grade are also available upon request;
2. The product color is generally black, length is generally 6 m,can also be agreed between the supply and demand parties;
3. This page won the "★" product mold has not been improved, please note.

Size	Minimum Average Inner Diameter, dim,min(mm)	Minimum Inner Wall Thickness e_4 ,min(mm)
★ 200	195	1.5
300	294	2.0
400	392	2.5
500	490	3.0
600	588	3.5
★ 700	673	4.0
800	785	4.5
1000	985	5.0
1200	1185	5.0
1400	1385	5.0

BV certification for structured-wall piping systems PVC-U, HDPE pipes and fittings comply with BS EN 13476-2, ISO 21138-2, BS EN 13476-3, ISO 21138-3.

BUREAU VERITAS

TYPE APPROVAL CERTIFICATE

Certificate No.: *TA- INS/S-GZ-14/021*

Name of the Company: **Guangdong Liansu Technology Industrial Co., Ltd.**

Address of the factory: **Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China**

Type(s) of pipe & fitting manufactured: **Structured-wall piping systems PVC-U, HDPE pipes and fittings, Type A & Type B**

Applying Standards : **BS EN 13476-2:2007, ISO 21138-2:2007,**
BS EN 13476-3:2007+A1:2009, ISO 21138-3:2007

Drawing Number
Service Pressure : **SN4, SN8**
DN : **DN/OD 110--1200 mm,**
DN / ID 100--1200 mm

After examination of the following documents:

Test reports for type approval n° *TR-INS/S-GZ-14/021 dated Aug. 15th, 2014*

The undersigned, Inspector to Bureau Veritas, certifies that the above type meets the applicable requirements for the type approval of pipe & fitting listed above.

This approval remains valid as long as no significant changes are made to the facility, its production rate and its quality system. These conditions are assessed during each inspection of series.

This approval is an integral and indissociable part of the certification process managed by Bureau Veritas as defined in BV procedure GM SI 210.

Made at: Shanghai — Name & signature: Gilles Fan

On: Aug 15th, 2014 — BV China INS Department Director

Bureau Veritas Greater China, Industry and Facility Division
Address: 3/F, No.1288, Wai Ma Road, Huangpu District, Shanghai, 200011, P. R. China
Tel : +86 21 2319 0001,2319 0002, 2319 0003 Fax : +86 21 68861421

BUREAU VERITAS

FACTORY APPROVAL CERTIFICATE

Certificate No.: **FA-INS/S-GZ-14/021**

Name of the Factory: **Guangdong Liansu Technology Industrial Co., Ltd.**

Address of the Factory: **Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China**

Type(s) of product manufactured: **Structured-wall piping systems PVC-U, HDPE pipes and fittings, Type A & Type B**

Applying standards: BS EN 13476-2:2007, ISO 21138-2:2007,
BS EN 13476- 3:2007+A1:2009, ISO 21138-3:2007

After examination of the following documents:

- Quality System Certificate n° (ISO9001-2008): 0070012Q11710R4L (2012-08-21 to 2015-08-20)
- Factory Audit Report n° FR-INS/S-GZ-14/021
- Test Reports for Type Approval n° TR-INS/S-GZ-14/021

The undersigned, inspector of Bureau Veritas, certifies that the above factory meets the applicable requirements of BV procedure GM SI 210 for the production of the following types of pipes & fittings listed in **Annex to Certificate**.

This certificate is valid from : **Aug. 15th, 2014**

For a period of three years, ending : **Aug. 14th, 2017**

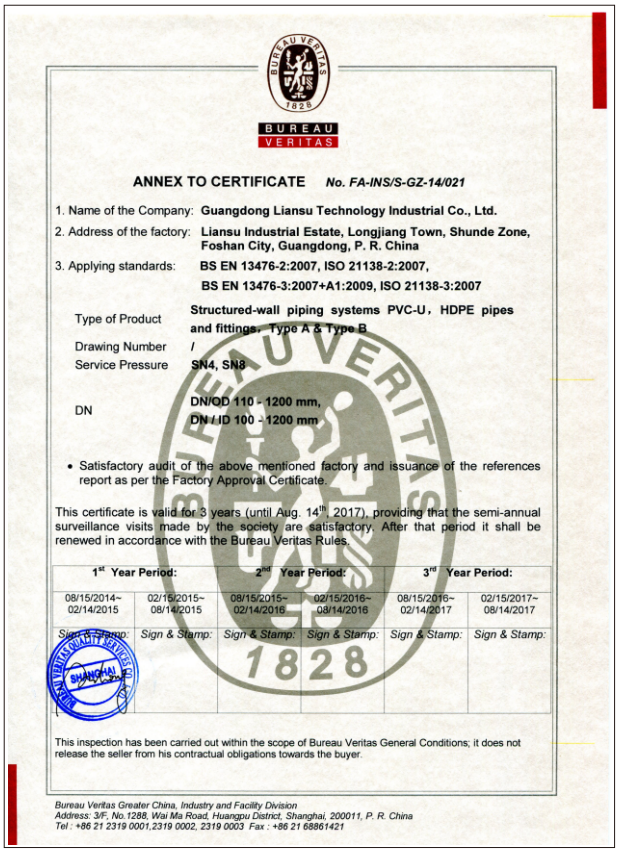
This approval is only valid provided that every semi-annual audit (in annex) is done and found satisfactory by Bureau Veritas, and when no significant changes are made to the audited facility, its production rate and its quality system. These conditions will be assessed during semi-annual audits.

This approval is an integral and indissociable part of the voluntary certification process of pipes & fittings by Bureau Veritas as defined in BV procedure GM SI 210.

Made at: Shanghai — Name & signature: Gilles Fan

On: Aug. 15th, 2014 — BV China INS Department Director

Bureau Veritas Greater China, Industry and Facility Division
Address: 3/F, No.1288, Wai Ma Road, Huangpu District, Shanghai, 200011, P. R. China
Tel : +86 21 2319 0001,2319 0002, 2319 0003 Fax : +86 21 68861421



BUREAU VERITAS

ANNEX TO CERTIFICATE *No. FA-INS/S-GZ-14/021*

1. Name of the Company: **Guangdong Liansu Technology Industrial Co., Ltd.**
2. Address of the factory: **Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong, P. R. China**
3. Applying standards: **BS EN 13476-2:2007, ISO 21138-2:2007,**
BS EN 13476-3:2007+A1:2009, ISO 21138-3:2007

Type of Product: **Structured-wall piping systems PVC-U, HDPE pipes and fittings, Type A & Type B**
Drawing Number: **/**
Service Pressure: **SN4, SN8**
DN: **DN/OD 110 - 1200 mm,**
DN / ID 100 - 1200 mm

- Satisfactory audit of the above mentioned factory and issuance of the references report as per the Factory Approval Certificate.

This certificate is valid for 3 years (until Aug. 14th, 2017), providing that the semi-annual surveillance visits made by the society are satisfactory. After that period it shall be renewed in accordance with the Bureau Veritas Rules.

1st Year Period:		2nd Year Period:		3rd Year Period:	
08/15/2014~ 02/14/2015	02/15/2015~ 08/14/2015	08/15/2015~ 02/14/2016	02/15/2016~ 08/14/2016	08/15/2016~ 02/14/2017	02/15/2017~ 08/14/2017
Sign & Stamp:	Sign & Stamp:	Sign & Stamp:	Sign & Stamp:	Sign & Stamp:	Sign & Stamp:

This inspection has been carried out within the scope of Bureau Veritas General Conditions; it does not release the seller from his contractual obligations towards the buyer.

Bureau Veritas Greater China, Industry and Facility Division
Address: 3/F, No.1288, Wai Ma Road, Huangpu District, Shanghai, 200011, P. R. China
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CE certification for structured-wall plastic pipes and fittings
comply with EN 13476-1, EN 13476-2, EN 13476-3, ISO 21138-1, ISO 21138-2, ISO 21138-3.

Certificate – Сертификат – 證明書 – Certificat – 증명서 – شهادة

Certificate of Compliance

No. 0B170526.GLTUC62

Certificate's Holder:	Guangdong Liansu Technology Industrial Co., Ltd. Liansu Industrial Estate, Longjiang Town, Shunde Zone, Foshan City, Guangdong Province, China
Certification ECM Mark:	European Conformity – Type Approved
Product:	Structured Wall Plastic Pipes and Fittings
Model(s):	DN110-1200mm
Verification to:	Standard: EN 13476-1:2007, EN 13476-2:2007, EN 13476-3:2007+A1:2009, ISO 21138-1:2007, ISO 21138-2:2007, ISO 21138-3:2007 related to CE Directive(s): R 305/2011 (Regulation for the Marketing of Construction Products)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it
This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE Marking:

We attest that a TCF for the CE Marking process is in place. Whereas the Manufacturer is Responsible to start the CE *Marking Certification Procedure* through an appointed Notified Body and the perform all the necessary activities, as required by the Directive and accepted by the Notified Body, before placing the CE Mark on the product(s).

Date of issue 26 May 2017

Expiry date 25 May 2022

Chief Manager
Marco Morina

Deputy Manager
Amanda Payne

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