



# DRAINAGE AND SEWERAGE SYSTEMS



**SYSTEM GROUP EXPORT**

04.2024

  
MADE IN ITALY

# DRAINAGE AND SEWERAGE SYSTEM GROUP'S PLANTS

 **CENTRAL TUBI**

 **ITALIANA CORRUGATI**

 **Futura**

 **SAB**  
cherish your water

 **SYSTEM GROUP**  
FRANCE

 **SYSTEM GROUP PVC**

 **FUTURA SYSTEMS**

 **SYSTEM GROUP EXPORT**



Lunano (PU) - ITALY



Piandimeleto (PU) - ITALY



Certaldo (FI) - ITALY



Sant'Angelo in Vado (PU) - ITALY



Belforte all'Isauro (PU) - ITALY



Is Sur Tille - Dijon - FRANCE



Rodonya' Tarragona - SPAIN



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SYSTEM GROUP can deliver anywhere from its production plants of Italy, France and Spain.



SYSTEM GROUP COMPANY



## KNOW-HOW

Since 1979 we believe that abilities come from the right combination of education, constant training and (personal) experiences.

The knowledge of thermoplastic materials after more than 40 years of experience, combined with the strong roots settled down in civil and mechanical engineering, the latest production processes and environmental engineering make SG the preferred partner for infrastructure projects and much more.

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## QUALITY

Quality is our core value, and it starts from a constant investment of time and energy of our people, up to the meticulous supplier and material selection, constant upgrades in the production process, innovative product development, and a high standard customer care for all the clients who decide to trust us.

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## PRODUCTS RANGE

Our product ranges are made of the following materials: HDPE, MDPE, LDPE, PP and PVC for multiple applications.

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## INNOVATION

System Group is not just a family-owned company: we are one big family. Therefore, we keep growing, developing, sharing, dreaming, we are passionate about our job, we work hard, but we also find the time to play. We WILL bring you luck!

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## TECHNICAL SUPPORT

Thanks to its 40 years experience, System Group can also provide engineering and consultancy services. Our modern Technical Department offers solutions for a wide range of applications, also thanks to the creation and installation of new special customized products too, according to the client requirements.

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## SUSTAINABILITY

Environment and people are themes that really matter to us. Therefore, SG actively works on the continuous improvement of its environmental performances and takes part in different social initiatives.

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## ETHICS

Ethics makes an important part of our daily business, and our Core values extend to our Suppliers, Employees and Clients equally.

**10 PE-PP SEWERAGE  
SYSTEMS**

**16 PVC PIPES**

**18 SPIRAL PIPES**

**20 FITTINGS**

**28 MANHOLES**

**32 DRAINAGE  
CHANNELS**

**34 PACKAGING AND  
TRANSPORT**

**36 TECHNICAL SUPPORT**

# CERTIFICATIONS

## OF PRODUCT



### PIPES

PE, PP corrugated +  
PP triple wall + PVC  
(UNI) EN 13476 -3  
(UNI) EN 13476-2  
(UNI) EN 1401

### PE MANHOLES

UNI EN 13598-1-2

### DRAINAGE CHANNELS

EN 1433



### Nordic Poly Mark

### PIPES

Spiral wound PE  
DIN 16961



### PIPES

PE, PP corrugated + PVC  
(UNI) EN 13476 -3  
(UNI) EN 1401



### PIPES

PE corrugated  
EN 13476 -3



### PIPES

Corrugated PE and PP,  
triple wall, slotted  
GOST R54475-2011  
TU 2248-001-  
63648699-2012



### CIRCULAR ECONOMY

Pipes made  
of recycled PE



### PIPES

PE, PP corrugated  
EN 13476 -3



### PIPES

PE, PP corrugated  
EN 13476 -3

### ABRASION RESISTANCE TEST

### PIPES

PE, PP corrugated  
DIN EN 295-3



### PIPES

Corrugated PE  
NF EN 13476-3

Triple wall PP SN16  
NF EN 13476-2



### PIPES

Triple wall PP SN12  
Avis Technique  
n. 17.2/17-333\_V1



### PIPES

Corrugated PE  
UNE EN 13476-1-3

Corrugated PP SN16  
UNE EN 13476-1-3  
with CorPress junction



### PIPES

Corrugated PP SN16  
with CorPress junction



### PIPES

Corrugated PE IS n. 13476-3

Triple wall PP SN16  
IS n. 13476-3

### CorPress FITTING

for corrugated pipes  
UNE EN 1053 ISO 13254  
UNE EN ISO 13254  
(8h - 2 bar)



### PIPES

Corrugated PE  
EN 13476-1-3

## CORPORATE



### CENTRALTUBI

ISO 9001  
ISO 14001  
ISO 45001

### ITALIANA CORRUGATI

ISO 9001  
ISO 14001



### SAB

cherish your water  
ISO 9001



### SYSTEM GROUP

FRANCE  
ISO 9001



### FUTURASYSTEMS

ISO 9001



ISO 9001



ISO 9001



# MAIN STANDARD REFERENCES

## DESIGN

EN 1295-1 + prEN 1295-3 Structural project of underground pipes submitted to different load conditions

## CONSTRUCTION AND TESTING OF PIPELINES

EN 13476 Non-pressurized plastic pipes systems for underground drainage systems and sewerage. Structured wall pipelines of unplasticized polyvinyl chloride (PVC-U), polypropylene (PP) and polyethylene (PE).Part 1: Specific for pipes, fittings and complete system.

## INSTALLATION

ENV 1046 Plastic pipes and drainage systems. External systems for water collection or rehabilitation outside buildings. Installation practices above and underground.

## WORKING SITE TESTS

EN 1610 Plastic pipes and drainage systems. External systems for water collection or rehabilitation outside buildings. Installation practices above and underground.

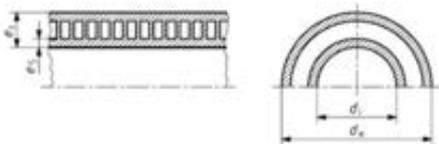
## EN 13476-3:2018

DN/OD	$d_{im, min}$	DN/ID	$d_{im, min}$	min. wall thickness	
				$e_{4, min}$	$e_{5, min}$
110	90	100	95	1.0	1.0
125	105			1.1	1.0
		125	120	1.2	1.0
160	134			1.2	1.0
		150	145	1.3	1.0
200	167			1.4	1.1
		200	195	1.5	1.1
250	209			1.7	1.4
		225	220	1.7	1.4
		250	245	1.8	1.5
315	236			1.9	1.6
		300	294	2.0	1.7
400	335			2.3	2.0
		400	392	2.5	2.3
500	418			2.8	2.8
		500	490	3.0	3.0
630	527			3.3	3.3
		600	588	3.5	3.5
800	669			4.1	4.1
		800	785	4.5	4.5
1000	834			5.0	5.0
		1000	985	5.0	5.0
1200	1005			5.0	5.0
		1200	1115	5.0	5.0
1400	1173			5.0	5.0
		1400	1385	5.0	5.0
1600	1340			5.0	5.0
		1600	1584	5.0	5.0
1800	1508			5.0	5.0
		1800	1782	5.0	5.0
2000	1675			7.0	7.0
		2000	1980	7.0	7.0
2200	1843			7.0	7.0
		2200	2178	7.0	7.0
2400	2010			7.0	7.0
		2400	2376	7.0	7.0
2500	2094			7.0	7.0
		2500	2475	7.0	7.0
2600	2178			7.0	7.0
		2600	2574	7.0	7.0
2800	2345			7.0	7.0
		2800	2772	7.0	7.0
3000	2513			10.0	10.0
		3000	2970	10.0	10.0

## TYPICAL SECTION OF STRUCTURED PROFILES

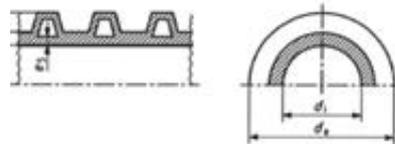
### TYPE A

Smooth inside and outside



### TYPE B

Smooth inside, corrugated outside



**DN/OD** nominal measure, referred to the outside diameter.

**DN/ID** nominal measure, referred to the inside diameter.

$d_{im, min}$  inside minimum and medium diameter

$d_e$  outside diameter

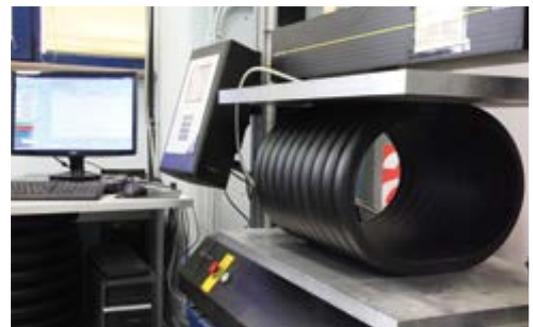
$d_i$  inside diameter

$d_{im}$  inside medium diameter

$e_c$  construction height (profile)

$e_4$  plain inner wall thickness (liquids sliding wall)

$e_5$  wall thickness of the inside diameter under a hollow section



# SUSTAINABILITY

In order to satisfy the environmental requirements and promote the approach to the energy transition, **CENTRALTUBI S.p.A.** and **ITALIANA CORRUGATI S.p.A.** obtained the **PSV** mark. This mark certifies that the used PE material really comes from recycling processes. It also leads to the revaluation of waste and contributes to the reduction of higher waste and the environmental impact.

The standard range of black corrugated pipes for cable ducts applications has the PSV mark, which means they are made of recycled materials. This product range has IMQ certification and marking which is in accordance with the CEI EN 61386 standard and the **CE** marking.

PE standard pipes for drainage and sewerage are made with materials that are committed to the existing technical standards.

The request of these pipes with **PSV** mark (recycled materials) does not validate these existing standards.

## ENVIRONMENTAL SUSTAINABILITY



## CIRCULAR ECONOMY

Economic system which has been thought for self-regeneration.



**plastic**  
second life  
FROM SEPARATE  
WASTE COLLECTION



PE and PP are 100% recyclable materials



# RAW MATERIALS



## ADVANTAGES

### THE MOST WELL KNOWN FEATURES OF POLYOLEFINS ARE:

- > LIGHTNESS (REDUCED SPECIFIC GRAVITY)
- > SMOOTHNESS (REDUCED WALL ROUGHNESS)
- > HIGH DUCTILITY (RESISTANCE TO IMPACT AND LOW TEMPERATURES)
- > HIGH RESISTANCE TO ABRASION
- > HIGH CHEMICAL RESISTANCE (ISO/TR 10358)
- > HIGH ELECTRICAL RESISTANCE
- > RECYCLABLE

Double-wall corrugated pipes can be made of polyethylene (PE) or polypropylene (PP).

Both materials belong to the POLYOLEFINS category which can be easily distinguished from the traditional polyvinyl chloride (PVC) because they don't have the chlorine molecule.

Therefore, polyolefins are more sustainable because of the greater ability to recycle and a lower environmental impact, particularly in the case of combustion.

### MATERIALS CHARACTERISTICS

CARATTERISTICHE	PP	PE	unit of measure
Elasticity modulus	≥ 1250	≥ 800	MPa
Average density	≈ 900	≈ 940	kg/m <sup>3</sup>
Average coefficient of linear thermal expansion	≈ 14 x 10 <sup>-5</sup>	≈ 17 x 10 <sup>-5</sup>	K <sup>-1</sup>
Thermal conductivity	≈ 0,2	≈ (0,36 a 0,50)	WK <sup>-1</sup> m <sup>-1</sup>
Specific heat capacity	≈ 2000	≈ (2300 a 2900)	Jkg <sup>-1</sup> K <sup>-1</sup>
Electric resistivity	> 10 <sup>12</sup>	> 10 <sup>13</sup>	Ω
Coefficient of Poisson	0,42	0,45	(-)

Values depend from the material.

It is recommended to get in contact with the pipes' manufacturer or to take a look at the documents for each value.

### TABLE OF PIPE HYDRAULIC ROUGHNESS

ROUGHNESS OF INSIDE WALLS typical values	
Absolute roughness [mm]	0,002 – 0,004
Strickler [K <sub>s</sub> ]	90 – 95
Hazen-Williams [C]	140 – 150
Manning [n]	140 – 150



# HYDRO16

PP SN 16 kN/m<sup>2</sup>

MADE BY ITALIANA CORRUGATI



PP CORRUGATED PIPES  
IN BARS,  
WITH HIGH RING  
STIFFNESS



DN/OD	$d_{im}$	DN/ID	$d_e$	Standard length m
200	172	-	-	6,00
250	218	-	-	6,00
315	272	-	-	6,25
-	-	300	350	6,25
400	347	-	-	6,25
-	-	400	468	6,25
500	433	-	-	6,25
-	-	500	565	6,25
630	546	-	-	6,25
-	-	600	701	6,25
800	678	-	-	6,25
-	-	800	935	6,25
1000	852	-	-	6,25
-	-	1000	1200	6,25
1200	1020	-	-	6,25

Millimeters [mm]

Length tolerance:  $\pm 1\%$   
Lengths are provided with socket (or coupler) and gasket  
The socket is part of the length  
TRANSPORT: see page 34



Connection system  
AVAILABLE  
(see page 14)



## MAIN FEATURES

- > WIDE RANGE OF DIAMETERS
- > HIGH RING STIFFNESS: SN 16
- > SMOOTH INNER WALL AND CORRUGATED OUTER WALL
- > SOCKET OR COUPLING CONNECTIONS WITH GASKET
- > LIGHTWEIGHT AND EASY TO INSTALL
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS
- > RECYCLABLE



## CERTIFICATIONS





# MAGNUM

MADE BY ITALIANA CORRUGATI



HDPE CORRUGATED PIPES  
IN BARS, FOR SEWERAGE



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DN/OD	$d_{im}$	DN/ID	$d_e$	Standard length m
125	105	-	-	6,00/6,25
160	137	-	-	6,00/6,25
200	172	-	-	6,00/6,25
250	218	-	-	6,25
-	-	250	284	6,25
315	272	-	-	6,25
-	-	300	350	6,25
400	347	-	-	6,25
-	-	400	468	6,25
500	433	-	-	6,25
-	-	500	565	6,25
630	546	-	-	6,25
-	-	600	701	6,25/6,75
800	678	-	-	6,25/6,75
-	-	800	935	6,25/6,75
1000	852	-	-	6,25/6,75
-	-	1000	1200	6,25/6,75
1200	1020	-	-	6,25/6,75

Millimeters [mm]

Length tolerance:  $\pm 1\%$   
Lengths are provided with socket (or coupler) and gasket  
The socket is part of the length  
TRANSPORT: see page 34



Connection system  
AVAILABLE  
(see page 14)



## MAIN FEATURES

- > WIDE RANGE OF DIAMETERS
- > RING STIFFNESS: SN 4-8
- > SMOOTH ON THE INSIDE AND CORRUGATED ON THE OUTSIDE
- > SOCKET OR COUPLING CONNECTIONS WITH SEALING GASKET
- > LIGHTWEIGHT AND EASY INSTALLATION
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS
- > RECYCLABLE



## CERTIFICATIONS



# SLOW FLOW<sub>AMR</sub>

MADE BY  **ITALIANA CORRUGATI**

HDPE CORRUGATED PIPES  
IN BARS  
FOR WATER FLOW  
VELOCITY REDUCTION



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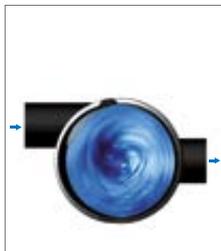
Standard length

DN/OD	$d_{im}$	m
200	172	6,00
250	218	6,00
315	272	6,00
400	347	6,00
500	433	6,00

Millimeters [mm]

Bar length: 6 m

TRANSPORT: see page 36



The system of water flow reduction inside the network is provided with the SLOW FLOW AMR pipe and also vortexwells:

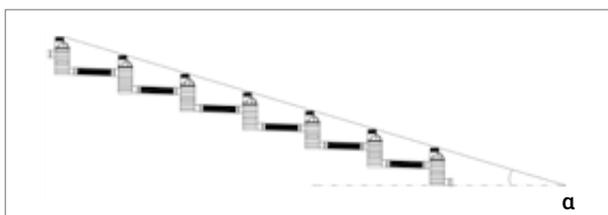
- they reduce the speed of water in the manhole
- they reduce the risk of occlusion and spit up of the exit pipe
- self cleaning of the manhole's base



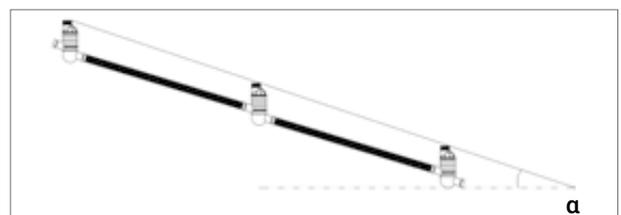
## MAIN FEATURES

- > RING STIFFNESS: SN 8
- > CORRUGATED OUTER WALL AND WAVY INNER SURFACE
- > ABILITY TO SLOW DOWN THE SPEED OF WATER (< 3 M/SEC) UP TO SLOPES OF 20%
- > REDUCTION OF HEIGHT AND NUMBER OF DROP MANHOLES
- > SOCKET OR COUPLING CONNECTIONS WITH SEALING GASKET
- > LIGHTWEIGHT AND EASY TO INSTALL
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS
- > RECYCLABLE

**A TRADITIONAL**  
system with cascading manholes



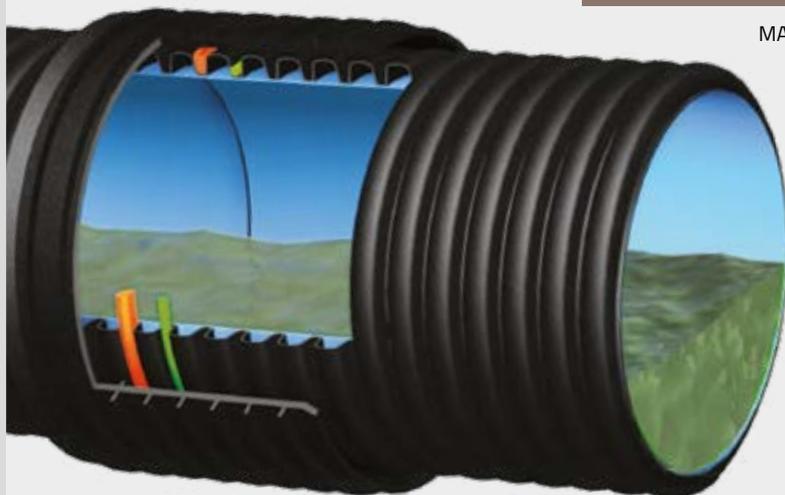
**SLOW FLOW AMR**  
system with vortex manholes





# EXPANDER

MADE BY ITALIANA CORRUGATI



HYDRO EXPANDING  
ADDITIONAL GASKET



## CORRUGATED SEWER PIPES (UNI EN 13476)

with additional bentonite gasket

DN/OD	$d_{im}$	DN/ID	$d_e$
160	137	-	-
200	172	-	-
250	218	-	-
315	272	-	-
-	-	300	350
400	347	-	-
-	-	400	468
500	433	-	-
-	-	500	565
630	546	-	-
-	-	600	701
800	678	-	-
-	-	800	935
1000	852	-	-
1200	1000	-	-
1200	1020	-	-

Millimeters [mm]



### BENEFITS

- > ADDITIONAL SEALING SECURITY
- > COMPLETE RANGE OF DIAMETERS
- > PRE INSTALLATION POSSIBILITY



### DESCRIPTION

Traditional jointing systems for corrugated pipes (sockets/couplings with EPDM gaskets), can be equipped with an additional bentonite gasket to increase hydraulic sealing in extreme or delicate conditions (e.g. high level of ground water). Bentonite is a hydro expanding material that, in contact with water, increases slowly its volume up to 300%, adding tightness safety to the joint system.

EXPANDER can be applied (on demand) on all types of corrugated pipes: PE and PP, SN 4 - 8 - 10 - 12 - 16, and can be delivered pre-installed or free for autonomous installation.

EPDM gasket according to EN 681

EXPANDER: bentonite gasket



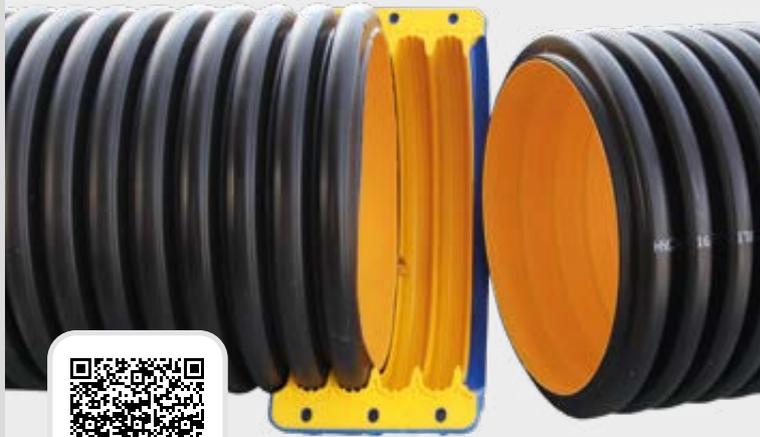
WASTEWATER LEAKAGE FROM INSIDE TO OUTSIDE

GROUNDWATER INFILTRATION FROM OUTSIDE TO INSIDE





MADE BY ITALIANA CORRUGATI



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SYSTEM OF SEWERAGE  
CORRUGATED PIPES  
PROVIDED WITH THE  
CORPRESS JOINT



## BRIEF DESCRIPTION

Double shell mechanical joint with high sealing performances, for corrugated pipes (PE and PP).

The outer wall is made of polypropylene (PP), and the inner one, which is made of TPE, has a specific shape designed to adhere to the entire outer surface of the pipes that need to be connected.

This feature increases the hydraulic sealing performances (compared to the traditional ones) and adds an anti-slip ability, both particularly useful in specific applications and installation techniques.

The joining between the two shells that compose the joint takes place on the construction site with stainless steel screws and bolts, which need to be fitted and tightened following the specifications submitted by the producer.

PLEASE NOTE:

the corrugated shape of the TPE inner wall of CorPress joints, was designed and made following the external shapes of corrugated pipes made by System Group companies mentioned in the current product page.

Therefore, we cannot supply any tightness guarantee in case of usage on corrugated pipes manufactured by other producers.



## MAIN FEATURES

- > HIGH TIGHTNESS RELIABILITY
- > EASY TO INSTALL
- > ANTI-SLIP ABILITY
- > POSSIBILITY OF USING AS REPAIR KIT
- > ELIGIBLE FOR VERTICAL WALL OR UNDER ROOF INSTALLATIONS (EX. BRIDGES AND VIADUCTS)
- > HIGH SHOCK ABSORPTION CAPACITY



## STANDARDS

UNI EN 13476

**CorPress FITTING**

UNE EN 1053 – ISO 13254

UNE EN ISO 13254 (8 h at 2 bar)



THE SYSTEM CONSISTS OF PE/PP CORRUGATED PIPES + CORPRESS DOUBLE SHELL CONNECTION FITTINGS. IT HAS A HIGH HYDRAULIC TIGHTNESS AND AN ANTI-SLIPPING ABILITY. IT FINDS APPLICATION IN THE CONSTRUCTION OF SEWERAGE AND DRAINAGE NETWORKS.



TUTORIAL  
  




### REPAIR KIT



Replacement of the accidental damaged parts of pipe

### RANGE



For pipes with DN/OD:  
 160 / 200 / 250 / 315 / 400 / 500 / 630 / 800



### MAIN FEATURES

- > HIGHER HYDRAULIC TIGHTNESS PERFORMANCE
- > HIGH ANTI-SLIPPING PERFORMANCE
- > AVAILABLE FOR PE AND PP CORRUGATED PIPES
- > WALL FIXING COST SAVING
- > INSTALLATION SAVING (ONLY 1 PERSON REQUIRED)

# SG-PVC SEWER



## SG-PVC SEWER

MADE BY **SYSTEMGROUP**PVC

RIRIGID PVC U PIPES  
FOR DRAINAGE AND  
SEWERAGE NETWORKS



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### MAIN FEATURES

- > RING STIFFNESS: SN 2 – 4 – 8
- > "ICE" CERTIFICATION (IMPACT RESISTANCE TEST AT -10°C FOR INSTALLATION IN COLD CLIMATES) WITH MARKING ❄️
- > SOCKET CONNECTIONS WITH LIP SEAL MADE OF EPDM (EN 681)
- > SOCKET CONNECTIONS WITH DINLOCK GASKET TYPE (WITH RIGID INSERT MADE OF PP)
- > COLD INSERTION (EN 681)
- > SOCKET CONNECTIONS WITH POWERLOCK GASKET TYPE (WITH RIGID INSERT MADE OF PP)
- > WARM INSERTION (EN 681)
- > GLUE SOCKET CONNECTIONS
- > WIDE RANGE OF STANDARD MOULDED FITTINGS
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS

∅ est.	SDR41 SN4 thickness	SDR34 SN8 thickness	pipes per pallet n.
110	3,2	3,2	67
125	3,2	3,7	60
160	4,0	4,7	33
200	4,9	5,9	23
250	6,2	7,3	11
315	7,7	9,2	8
400	9,8	11,7	6
500	12,3	14,6	4

Millimeters [mm]



## CERTIFICATIONS



## BRIEF DESCRIPTION

Solid wall pipes made of polyvinyl chloride (PVC) with a smooth inner and outer surface, available in brick-red colour (RAL 8023), produced in compliance with EN 1401 standard. The diameters range (DN/OD) goes from 110 up to 500 mm. Pipes are delivered in bars of 3 or 6 m with a built-in socket for glue connection or provided with a gasket. They are used for the construction of non-pressurized waste water systems outside the buildings (application code: "U") or buried inside the building (application code: "D").

## TYPES OF GASKET



### EPDM

The male-female plug-in connection consists of a tightened gasket, in accordance with the UNI EN 681-1, made of thermoplastic elastomer.



### DINLOCK

The male-female plug-in connection consists of a tightened gasket combined through lip and compression, in accordance with the UNI EN 681-1, made of thermoplastic elastomer with a reinforcement element made of polypropylene in order to guarantee higher security of the gasket pre-installed in the pipe socket.



### POWERLOCK

The male-female plug-in connection consists of a tightened gasket, in accordance with the UNI EN 681-1, made of flexible rubber with a reinforcement element made of polypropylene, installed during the phase of socket creation. The elements are part of the pipe in order to avoid any movement during the handling phase.

<b>Elasticity modulus</b>	E(1mIn) > 3200 MPa
<b>Average coefficient of linear thermal expansion</b>	~ 0,08 mm/mK
<b>Thermal conductivity</b>	~ 0,16 WK <sup>-1</sup> m <sup>-1</sup>
<b>Surface resistance</b>	x > 10 <sup>12</sup>
<b>Poisson ratio</b>	0,35
<b>Creep ratio</b>	EN ISO 9967 < 2



# SPIRAL PIPES



scan me

**SGK**  
SYSTEM GROUP SAKRAH

MADE BY  **CENTRAL TUBI**

HDPE SPIRAL PIPES IN LARGE DIAMETERS FOR:

- DRAINAGE
- SEWERAGE
- EMBANKMENT CROSSINGS
- TANKS
- RETENTIONING SYSTEMS
- OIL AND SAND SEPARATORS



## CERTIFICATIONS



## MAIN FEATURES

- > WIDE RANGE OF DIAMETERS
- > SMOOTH OR PROFILED OUTER SURFACE
- > WIDE RANGE OF STRUCTURED PROFILES (MOMENT OF INERTIA – RING STIFFNESS)
- > SOCKET CONNECTIONS WITH ELECTROFUSION TECHNOLOGY (OR WITH SEALING GASKET)
- > HIGH RELIABILITY OF CONNECTIONS TIGHTNESS
- > LIGHTWEIGHT AND EASY TO INSTALL
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS
- > RECYCLABLE



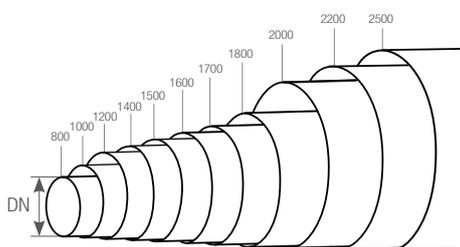


## RANGE OF DIAMETERS

DN mm

- 800
- 1000
- 1200
- 1400
- 1500
- 1600
- 1700
- 1800
- 2000
- 2200
- 2500

All sizes (DN/ID) can be used for both drainage, storage, purification and inspection manhole systems



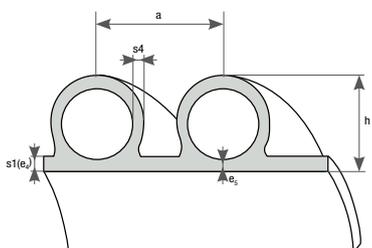
## INSPECTION SYSTEMS



normal inspection grafted onto external corrugated profile pipe

normal inspection grafted onto external smooth profile pipe

## MAIN PROFILES



offset inspections

## ELECTROFUSION JOINTS



Electrofusion socket joint system:  
reliable / 100% watertight / easy and fast

## TANKS - RETENTIONING SYSTEMS - OIL AND SAND SEPARATORS



big traditional manhole



# FITTINGS

## PE-PP FORMED FITTINGS

**BIM**  
AVAILABLE



scan me

MADE BY  **Futura**

FOR ALL RANGE OF  
PE - PP CORRUGATED  
PIPES FOR SEWAGE,  
DRAINAGE (INCLUDING  
SLOTTED PIPES)



**JUNCTION KIT**  
(sleeve and gaskets)  
Not included



**Inspection**  
(welded on fitting)  
D110  
D90  
D50



### MAIN FEATURES

- > COMPLETE RANGE OF DIAMETERS AND SHAPES
- > CUSTOMIZED SHAPES
- > RING STIFFNESS: PE SN4/8 - PP SN10 - 12 - 16
- > CONNECTION WITH COUPLER OR COMPRESS SYSTEMS
- > LIGHTWEIGHT AND QUICK TO INSTALL
- > HIGH CHEMICAL AND ABRASION RESISTANCE
- > INERT TO STRAY CURRENTS
- > RECYCLABLE

## FORMED FITTINGS M/M

Connection kit (coupler + gaskets) not included

DN/OD	DN/ID	30° ELBOW	45° ELBOW	60° ELBOW	90° ELBOW
125	-				
160	-				
200	-				
250	-				
-	250				
315	-				
-	300				
400	-				
-	400				
500	-				
-	500				
630	-				
-	600				
800	-				
-	800				
1000	-				
-	1000				
1200	-				

DN/OD	DN/ID	TEE 90°	TEE 45°	TEE 90° REDUCED	TEE 45° REDUCED
125	-				
160	-				
200	-				
250	-				
-	250				
315	-				
-	300				
400	-				
-	400				
500	-				
-	500				
630	-				
-	600				
800	-				
-	800				
1000	-				
-	1000				
1200	-				

DN/OD	DN/ID	CROSS	SIPHON DN 110 INSPECTION	LINEAR INSPECTION 110	TEE 90° WITH FLANGING
125	-				
160	-				
200	-				
250	-				
-	250				
315	-				
-	300				
400	-				
-	400				
500	-				
-	500				
630	-				

DN/OD	DN/ID	ECCENTRIC INCREASE M/M	ECCENTRIC INCREASE F/F	M CAP	F CAP
125	-				
160	-				
200	-				
250	-				
-	250				
315	-				
-	300				
400	-				
-	400				
500	-				
-	500				
630	-				
-	600				
800	-				
-	800				
1000	-				
-	1000				
1200	-				



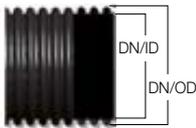
# PE INJECTION MOULDED FITTINGS



MADE BY Futura



## CORRUGATED PIPE



### MAIN FEATURES

- > WIDE RANGE OF SHAPES AND DIAMETERS
- > RELIABILITY
- > INERT TO STRAY CURRENTS
- > HIGH CHEMICAL RESISTANCE (ISO/TR 10358)
- > HIGH SHOCK ABSORPTION CAPACITY
- > RECYCLABLE

DN/OD	DN/ID
125	-
160	-
200	-
250	-
-	250
315	-
-	300
400	-
-	400
500	-
-	500
630	-
-	600
800	-
-	800
1000	-
-	1000
1200	-

### GASKET



### SLEEVE



DN/OD	DN/ID
125	-
160	-
200	-
250	-
-	250
315	-
-	300
400	-
-	400
500	-
-	500
630	-
-	600
800	-
-	800
1000	-
-	1000
1200	-

### 45° ELBOW



### REDUCING M/F



### TEE 90°



### 45° ELBOW



### 90° ELBOW





# Cor+<sup>PLUS</sup> FITTINGS



## BRIEF DESCRIPTION

Special fittings for connections through CorPress joint, to solve various problems of connection between corrugated and/or smooth pipes and special pieces.



## MAIN FEATURES

> ABILITY TO THE SYSTEM WITH SMOOTH PIPES ALSO

DN
160
200
250
315
400
500

PE STUB END FOR FLANGED CONNECTION



PE STUB END WITH (OR WITHOUT) STEEL FLANGE



TRANSITION MODULE FOR SMOOTH PIPES



END CAP



For corrugated pipes  
DN/OD series

Please note that the connection system CorPress is recommended for corrugated pipes made by ITALIANA CORRUGATI S.p.A. AND FUTURA SYSTEMS SL.

The usage of CorPress on other pipes does not guarantee the performances declared on this document





# PVC FITTINGS



## BRIEF DESCRIPTION

Injection moulded PVC fittings for smooth PVC pipe networks operating without pressure, complying with the EN 1401 standard. They are equipped with socket and spigot in the opposite ends. Every socket is equipped with a sealing gasket.



## MAIN FEATURES

- > WIDE RANGE OF SHAPES AND DIAMETERS
- > RELIABILITY
- > INERT TO STRAY CURRENTS
- > HIGH CHEMICAL RESISTANCE (ISO/TR 10358)
- > RECYCLABLE

15° ELBOW WITH O-RING



Ø mm

- 110
- 125
- 160
- 200
- 250
- 315
- 400
- 500

30° ELBOW WITH O-RING



Ø mm

- 110
- 125
- 160
- 200
- 250
- 315
- 400
- 500

45° ELBOW WITH O-RING



Ø mm

- 110
- 125
- 160
- 200
- 250
- 315
- 400
- 500

67° ELBOW WITH O-RING



Ø mm

- 110
- 125
- 160
- 200

87° ELBOW WITH O-RING



Ø mm

- 110
- 125
- 160
- 200
- 250
- 315
- 400
- 500

45° BRANCH WITH O-RING



Ø mm

- 110
- 125
- 160
- 200
- 250
- 315
- 400
- 500



**87° BRANCH WITH O-RING**



∅ mm
110
125
160
200
250
315
400
500

**45° REDUCING TEE WITH O-RING**



∅ mm
125/110
160/110
160/125
200/110
200/125
200/160
250/110
250/125
250/160
250/200
315/110
315/125
315/160

**87° REDUCING TEE WITH O-RING**



∅ mm
125/110
160/110
160/125
200/110
200/125
200/160
250/110
250/125
250/160
250/200
315/110
315/125
315/160

**DOUBLE SOCKET COUPLING WITHOUT CENTRE STOP**



∅ mm
110
125
160
200
250
315
400
500

**MALE SCREW CAP**



∅ mm
110
125
160
200
250
315

**45° DOUBLE TEE WITH O-RING**



∅ mm
110
125
160

**MALE END CAP**



∅ mm
110
125
160
200
250
315
400

**INSPECTION PIPE WITH O-RING AND CAP**



∅ mm
110
125
160
200
250
315
400
500

**CHECK VALVE WITH O-RING C/1 AND SINGLE**



∅ mm
110
125
160
200
250
315

**90° MECHANICAL CLIP (SADDLE) WITH O-RING**



∅ mm
110/125
110/160
125/160
125/200
160/200
200/250
250/315
315/400

**ECCENTRIC ENLARGER COUPLING WITH O-RING**



∅ mm
110/125
110/160
125/160
125/200
160/200
200/250
250/315
315/400

**45° SADDLE COUPLING WITH O-RING**



∅ mm
160/125
200/125
200/160
250/125
250/160
315/160
315/200
400/160
400/200
500/125
500/160

**MALE END CAP**



∅ mm
110
125
160
200

**TYPE SYPHON WITH O-RING**



∅ mm
110
125
160
200
250
315

**TYPE SYPHON WITH O-RING WITH TWO CAPS**



∅ mm
110
125
160
200
250
315

**GASKETS**



∅ mm
110
125
160
200
250
315
400
500

# NON PRESSURED SEWER SYSTEMS



MADE BY  **CENTRAL TUBI**

BLACK HDPE PIPES, WITH OR WITHOUT BROWN STRIPES FOR GRAVITY UNDERGROUND SEWERAGE SYSTEM

without pressure



scan me

	SDR33 SN2	SDR26 SN4	SDR21 SN8
Ø mm	$e_n$	$e_n$	$e_n$
160	4,9	6,2	7,7
200	6,2	7,7	9,6
250	7,7	9,6	11,9
315	9,7	12,1	15,0
355	10,9	13,6	16,9
400	12,3	15,3	19,1
450	13,8	17,2	21,5
500	15,3	19,1	23,9
630	19,3	24,1	30,0
800	24,5	30,6	38,1
1000	30,6	38,2	47,7
1200	36,7	45,9	57,2

Millimeters [mm]

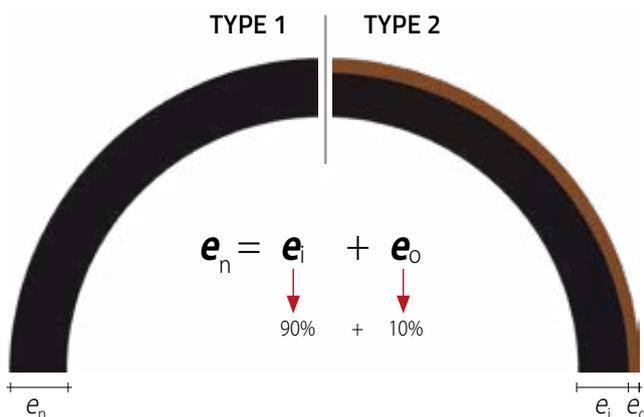


## MAIN FEATURES

- > 100% PERMANENT WATER TIGHTNESS
- > HIGH BENDING RADIUS
- > LOW MODULUS OF ELASTICITY
- > PLASTIC BEHAVIOUR IN UNSTABLE SITUATIONS
- > WIDE RANGE OF FITTINGS AND FABRICATED FITTINGS, STANDARD AND CUSTOMIZED
- > INERT TO STRAY CURRENTS
- > HIGH CHEMICAL RESISTANCE (ISO/TR 10358)
- > HIGH ABRASION RESISTANCE
- > HIGH SHOCK ABSORPTION CAPACITY
- > RECYCLABLE



## CERTIFICATIONS



Visual safety of carving degree measurement of the external wall



SYSTEM GROUP ALSO PROVIDES PRODUCTS (PIPES, FITTINGS AND FABRICATED FITTINGS) FOR

# PRESSURE SEWER SYSTEMS



**HDPE PIPES**  
EN 12201  
UNI EN ISO 15494  
(PE100 - PE100 RC)

with pressure operating



scan me

CENTRALTUBI - UNI EN12201 P Ø X SP SDR PE100 PN LINEA DATA TURNO

UP TO Ø 1200  
SDR 17 (PN 10)



**PVC-U PIPES**  
EN ISO 1452



scan me

UP TO Ø 500  
PN 20

# PE MANHOLES

## MODULAR COMPOSITION

MADE BY 





## MAIN FEATURES

- > COMPLIANCE WITH (UNI) EN 13598-1-2 STANDARDS
- > DESIGN VERSATILITY HIGH NUMBER OF POSSIBLE TECHNICAL AND DESIGN SOLUTIONS
- > FREE BIM LIBRARY AND TECHNICAL SUPPORT AVAILABLE
- > FLEXIBILITY OPTIMAL PLASTIC BEHAVIOUR IN SEISMIC AND UNSTABLE AREAS
- > CHEMICAL, ELECTRICAL, BIOLOGICAL RESISTANCE DURABILITY, EVEN AGAINST AGGRESSIVE LIQUIDS
- > RESISTANCE OF THE SYSTEM TO VERTICAL LOADS (RIGID DISTRIBUTION PLATE RELIEVES LOAD STRAIN ON THE MANHOLE)
- > SYSTEM UNIFORMITY (THE SAME BEHAVIOUR AND DURABILITY OF CONNECTED PLASTIC PIPES)
- > RELIABILITY OF SEAL SAME TYPE OF JOINT USED (BETWEEN THE PIPES AND THE MANHOLE)
- > LIGHTNESS EASE AND SPEED OF INSTALLATION
- > COSTS REDUCTION OF SAFETY AND HEALTH IN THE WORKING SITE
- > SAVINGS ON INSTALLATION AND SAFETY COSTS, INCREASING DURABILITY AND EFFICIENCY SYSTEM
- > RECYCLABILITY

## APPLICATION

### INSPECTION MANHOLE



### VERTEX MANHOLE



### INTERSECTION MANHOLE



### VORTEX MANHOLE



### CASCADE MANHOLE



## MADE WITH COMPACT PROFILE PIPE BODY



### CHARACTERISTICS AND APPLICATIONS

- > HIGH DESIGN FLEXIBILITY
- > THICKNESSES CAN BE DIMENSIONED ACCORDING TO TECHNICAL NEEDS
- > SUITABLE FOR INSTALLATION WITH AQUIFER LEVELS
- > HIGH RESISTANCE TO POINT LOAD
- > BASE WITH DOUBLE BOTTOM WELDED AVAILABLE
- > WIDE DIAMETERS RANGE (up to ID 2500 mm)
- > SUITABLE FOR GREATER DEPTH INSTALLATION

## MADE WITH STRUCTURED CORRUGATED PIPE BODY



### CHARACTERISTICS AND APPLICATIONS

- > SUITABLE FOR NORMAL SITUATIONS
- > LIGHTWEIGHT AND EASE OF TRANSPORTATION (MANUAL TOOL) AND INSTALLATION
- > PREFERRED IN LAYING SITUATIONS WITH CONFINED SPACE
- > AQUIFER ABSENT OR 2 m MAXIMUM
- > (UNI) EN 13598-1-2 AND PRODUCT QUALITY MARK
- > CORRUGATED PIPE WITH HIGH RING STIFFNESS

## MADE WITH STRUCTURED SPIRAL PIPE BODY



### CHARACTERISTICS AND APPLICATIONS

- > HIGH DESIGN FLEXIBILITY
- > STRUCTURED PROFILES (SMOOTH OR NOT OUTSIDE)
- > SUITABLE FOR AQUIFER INSTALLATION
- > HIGH RESISTANCE TO LOAD POINTS
- > POSSIBILITY TO CONNECT THE BODY'S ELEMENTS THROUGH THE ELECTRO-FUSION TECHNOLOGY ELEMENTS USING THE MALE AND FEMALE SYSTEM
- > DIAMETERS RANGE FROM DN-ID 800 (up to 2500 mm)

# ROCK



## CERTIFICATIONS

DVS 2212-2  
Manual weldings by personnel certified according to (UNI) EN 13067 – class 3



## MAIN FEATURES

- > EASE OF INSTALLATION
- > CUSTOMIZED SOLUTIONS
- > COST-EFFECTIVE
- > FLEXIBILITY

## ROCK MANHOLE

DE/OD mm	H manhole
1000	1200
	2200
	3200
1200	1200
	2200
	3200

Other heights available on demand with or without ladder

## INLET-OUTLET

OD mm	Welded socket for corrugated pipe provided with gasket	OD mm	Welded socket for PE smooth pipe/ PVC/PP provided with gasket	PE stub pipe SDR 17 for PE smooth pipe/PVC/PP	DN mm	Welded socket for TECH3 pipe provided with gasket
125		110			OD 125	
160		125			OD 160	
200		140			OD 200	
250		160			OD 250	
284		180			ID 250	
315		200			ID 300	
350		225			ID 400	
400		250				
468		280				
500		315				
565		355				
575		400				
630		450				
701		500				
800		560				
		630				





# DRAINAGE CHANNEL

## SABdrain

MADE BY   
cherish your water



scan me

### BRIEF DESCRIPTION

Channels for road surface drainage made of PP (polypropylene), provided with heel guard grids made of various materials, suitable for all loading classes from A15 (pedestrians) up to F900 (airports).

Channels are provided with:  
inline connection system of interlocking channels, available with a lateral inclination up to 2° predisposition to orthogonal connection system between channels predisposition to exit pipes connection, both sideways and on the floor.



### MAIN FEATURES

- > LIGHTWEIGHT
- > EASY AND QUICK TO INSTALL
- > HIGH CHEMICAL RESISTANCE
- > HIGH ABRASION RESISTANCE
- > HIGH THERMAL SHOCK RESISTANCE
- > LOW ROUGHNESS (EXCELLENT HYDRAULIC BEHAVIOUR)
- > EXCELLENT MECHANICAL RESISTANCE
- > WIDE RANGE OF LOADING CLASSES



## CLASSES

L x H	L1 x H1
100 x 50	150 x 100
100 x 100	150 x 150
100 x 150	150 x 200
150 x 100	200 x 150
150 x 150	200 x 200
200 x 50	250 x 100
200 x 100	250 x 150
200 x 150	250 x 200
200 x 200	250 x 250
200 x 250	250 x 300
200 x 300	250 x 350
300 x 200	390 x 260
300 x 300	390 x 360
500 x 500	590 x 560

Millimeters [mm]

CLASS	RESISTANCE		USE
A15	15 kN	1500 kg	Pedestrian, precincts, cycle-lanes, parks
P B125	125 kN	12500 kg	Sidewalks, lay by, multilevel car parks
C250	250 kN	25000 kg	Strip that extends from 50 cm of the carriageway to 20cm on the sidewalk
D400	400 kN	40000 kg	Carriageway of roads and highways
E600	600 kN	60000 kg	Industrial and harbour sites used for heavy loading
F900	900 kN	90000 kg	Airports, army bases, heavy loading areas

### CAST IRON GRID



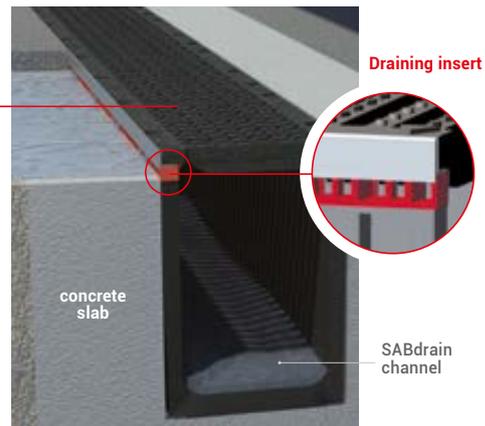
### GALVANIZED STEEL GRID



### PP GRID



### PAGF GRID



# PACKAGING AND TRANSPORT

## STANDARD TRANSPORT

### TRUCK

Vehicles with load platform length = 13,6 m

Ø	PE SMOOTH PIPES					PVC SMOOTH PIPES				
	pipe length	truck	PALLET details			pipe length	truck	PALLET details		
m	m	m	n./truck	bars n.	m	m	m	n./truck	bars n.	m
90										
110	12	4.608	8	48	576	6	5.472	12	76	456
125	12	3.600	10	30	360	6	4.320	12	60	360
160	12	2.400	10	20	240	6	2.808	12	39	234
200	12	1.488	8	31	372	6	1.680	12	45	270
250	12	900	8	31	372	6	1.056	12	28	168
315	12	576	8	6	144	6	648	12	9	54
355	12	576	loose	48	576					
400	12	420	loose	35	420	6	432	12	6	36
500	12	288	loose	24	288	6	240	12	6	36
630	12	180	loose	15	180					
800	12	108	loose	9	108					
1000	12	60	loose	5	60					

Pipe bars can be tailor-made in any transportable length

PE-PP CORRUGATED PIPES								
Ø	OD	ID	pipe length	truck	PALLET details			
			m	m	n./truck	bars n.	m	
90			6			8		
110			6	5.952	8	124	744	
125			6	4.512	8	94	564	
160			6	2.832	8	59	354	
200			6	1.680	8	35	210	
250			6	960	8	20	120	
	250		6,25	900	8	18	112,5	
	300		6,25	500	8	10	62,5	
	315		6,25	600	8	12	75	
	400		6,25	400	8	8	50	
	400		6,25	300	8	6	37,5	
	500		6,25	250	8	5	31,25	
	500		6,25	250	loose	40	250	
	600		6,75	150	loose	24	150	
	630		6,25	200	loose	32	200	
	800		6,75	75	loose	12	75	
	800		6,75	112,5	loose	18	112,5	
	1000		6,75	62,5	loose	10	62,5	
	1200		6,75	54	loose	8	54	

DN/OD	PE SPIRAL PIPES			
	Pipes		truck	
m	length [m]	n.	m	
800	6	12	72	
1000	6	8	48	
1200	6	6	36	
1400	6	2/4	12/24	
1500	6	2	12	
1600	6	2	12	
1700	6	2	12	
1800	6	2	12	
2000	6	2	12	
2200*	6	2	12	
2500*	6	2	12	

\* exceptional transports



# STANDARD TRANSPORT

## CONTAINER

40' HC with load platform length = 12 m

Ø	PE SMOOTH PIPES			PVC SMOOTH PIPES			Ø	PE-PP CORRUGATED PIPES			
	m/bar	bars n.	m	m/bar	bars n.	m		OD	ID	m/bar	bars n.
110	11,8	540	6.372	5,75	912	5.244	90		5,9	1.508	8.897,2
125	11,8	410	4.838	5,75	750	4.312,5	110		5,9	1.002	5.911,8
140	11,8	320	3.776	5,75	600	3.450	125		5,9	756	4.460,4
160	11,8	238	2.808,4	5,75	473	2.719,75	160		5,9	412	2.430,8
180	11,8	182	2.147,6	5,75	312	1.794	200		5,9	256	1.510,4
200	11,8	154	1.817,2	5,75	294	1.690,5	250		5,75	144	828
225	11,8	120	1.416	5,75	228	1.311	250		5,9	174	1.026,6
250	11,8	99	1.168,2	5,75	188	1.081	300		5,75	84	483
280	11,8	80	944	5,75	120	690	315		5,9	112	660,8
315	11,8	63	743,4	5,75	118	678,5	400		5,9	68	401,2
355	11,8	48	566,4	5,75	76	437	400		5,9	40	
400	11,8	35	413	5,75	60	345	500		5,75	46	264,5
450	11,8	29	342,2	5,75	52	299	500		5,75	32	184
500	11,8	24	283,2	5,75	48	276	600		5,75	24	138
560	11,8	18	212,4				630		5,75	30	172,5
630	11,8	15	177	5,75	24	138	800		5,75	16	92
710	11,8	11	129,8	*			800		5,75	10	57,5
800	11,8	9	106,2	*			1000		5,75	10	57,5
900	11,8	6	70,8	*			1200		5,75	6	34,5
1000	11,8	5	59								

\* on request

DN ID	PE SPIRAL PIPES		
	m/bar	bars n.	m
800	5,8	10	58
1000	5,8	6-8	34,8-46,4
1200	5,8	4	23,2
1400	5,8	2	11,6
1500	5,8	2	11,6
1600	5,8	2	11,6
1700	5,8	2	11,6
1800	5,8	2	11,6
2000	5,8	2	11,6
2200	5,8	2	11,6



**TRUCK:**  
vehicle with load platform length = 13,6 m

**CONTAINER:**  
40' HC with load platform length = 12 m

Other loading solutions are available on request, in standard or exceptional dimensions too.

The picture shows a truck with 20 m HDPE smooth pipe lengths.

UNILINE is the SYSTEM GROUP logistic Company, operating and certified according to UNI ISO 28000



# TECHNICAL SUPPORT



## SYSTEM GROUP OFFERS ITS CLIENTS THE FOLLOWING SERVICES AS PART OF ITS RELATIONSHIP:

- Technical portal for different calculations, manuals and direct contact with our Engineering and R&D Department, easily accessible from the website too
- Technical support during the design phase
- BIM libraries, in Revit and IFC format for open software
- Working site welding services
- Welding machine renting
- Video inspection services
- .... and more



# SOME OF OUR WORKS



**AL MAFRAQ (JORDAN 2016):  
WWTP UPGRADE**

**MAGNUM PE** CORRUGATED PIPES WITH BIG PE MANHOLES MADE FROM SPIRAL PIPES



**STOCKHOLM (SWEDEN 2019):  
PRESSURE SEWERAGE SYSTEM FOR SUBMARINE CHANNEL CROSSING IN THE CITY**

**PE100** SMOOTH SOLID WALL PIPES Ø 1000 mm PN16



**GENOA (ITALY 2020):  
SAN GIORGIO NEW BRIDGE RECONSTRUCTION**

**PE SGK SPIRAL** PIPES SYSTEM (PIPES + INTEGRATED MANHOLES) DN 2000 – 2500 mm



**KONZA (KENYA 2019):  
1° AFRICAN SMART CITY CONSTRUCTION**

PE SGK SPIRAL AND MAGNUM CORRUGATED PIPES



**REALIZATION OF DRAINAGE SYSTEM WITH TAILOR-MADE  
CASCADE MANHOLES**

PE DOUBLE WALL **MAGNUM** CORRUGATED PIPES  
JOINED WITH **CORPRESS** JUNCTION SYSTEM



**SVITTO CANTON (SWITZERLAND 2019): MOUNTAIN  
HARVESTING WATER SYSTEM**

**SGK TANK** PROGRAM, MADE BY 36 m LENGTH OF DN  
2000 mm SN4 PE SPIRAL PIPES



**JERASH (JORDAN 2016): RAINWATER DRAINAGE  
CHANNELS REPLACEMENT IN SERVICE STATIONS**

**SABDRAIN** DRAINAGE CHANNELS 200X200 mm WITH  
STEEL EDGES AND D400 CAST IRON GRIDS



**FLORENSAC (FRANCE 2009): DAMAGED CONCRETE  
CHANNEL REHABILITATION WITH PIPE INSERTION**

**SGK PE SPIRAL** PIPES DN 1200 mm SN8 WITH  
INTEGRATED ELECTROFUSION SOCKET



**RICCIONE (ITALY 2012): NO-FIRE SYSTEM  
FOR ENVIRONMENTAL PROTECTION AND ANTI-SPREAD  
OF FIRE IN THE COLLECTOR OF THE ROAD TUNNEL**

**HYDRO16** PP DOUBLE WALL CORRUGATED PIPES Ø  
400 mm SN16 (WITH NO-FIRE TRAP GULLY)



**MÉRIDA – BADAJOZ (SPAIN 2021): DRAINAGE SYSTEM CONSTRUCTION FOR AMAZON STORAGE BUILDING**

N. 160 **ROCK** PE MANHOLES



**CROATIA 2006: STORM WATERS DRAINAGE SYSTEM CONSTRUCTION FOR A NEW MOTORWAY**

**FUTURA** PE MANHOLES MADE BY MOLDED MODULAR ELEMENTS



**NERUNGRI (RUSSIA 2021): AIRPORT DRAINAGE SYSTEM CONSTRUCTION**

**MAGNUM** PE DOUBLE WALL CORRUGATED PIPES, DOUBLE PIPES SYSTEM WITH THERMAL MIDDLE INSULATION LAYER



**TAILOR MADE SPECIAL PIECES REALIZATIONS**



**SKI ALPINE REFUGEE IN ZILLERTAL (AUSTRIA 2009)**

40 M<sup>3</sup> POTABLE WATER **STORAGE TANK**, INSTALLED AT 2400 M ON SEA LEVEL  
 MODULAR TANK MADE WITH HDPE SGK SPIRAL PIPES DN 2000 MM



**DUIKER SLENERSTROOM PROJECT (THE NETHERLANDS 2023)**

SUBMERGED CULVERTS, MADE BY **PE SPIRAL PIPES** DN 2000 MM SN8  
 WITH ENDS CUTTED AND FINISHED IN "FLUTE BEAK" SHAPE



**IRBID (GIORDANIA)**

CONSTRUCTION OF COLLECTION SYSTEMS AND  
RELATED GRAVITY TRUNK LINES FOR WEST IRBID  
TOWNS (JORDAN 2023-2024)  
**PE MANHOLES AND CORRUGATED PIPES**



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