



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

 **CENTRALTUBI**



Piandimeleto (PU) - ITALY

 **ITALIANA CORRUGATI**



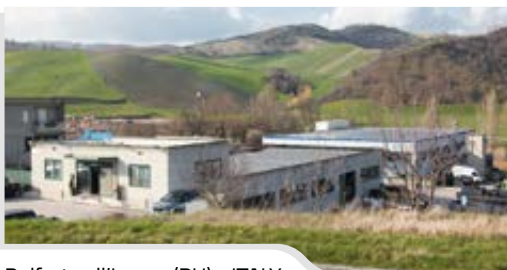
Certaldo (FI) - ITALY

 **SYSTEMGROUPPVC**



Sant'Angelo in Vado (PU) - ITALY

 **SAB**
cherish your water



Belforte all'Isauro (PU) - ITALY

 **Futura**



Is Sur Tille – Dijon - FRANCE

 **SYSTEM GROUP**
FRANCE



Rodonya' Tarragona - SPAIN

 **FUTURA SYSTEMS**



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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.



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.



PRODUCTS RANGE

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



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!



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.



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.



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

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



ISO 9001

ITALIANA CORRUGATI

ISO 9001
ISO 14001



ISO 9001



ISO 9001



SYSTEM GROUP FRANCE

ISO 9001



FUTURASYSTEMS

ISO 9001

MAIN STANDARD REFERENCES

DESIGN

EN 1295-1 Structural project of underground pipes
+ prEN 1295-3 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.

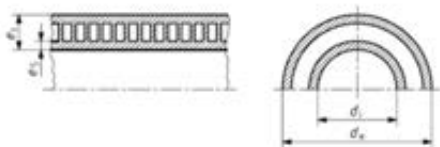
EN 13476-3:2018

				min. wall thickness	
DN/OD	$d_{im\ min}$	DN/ID	$d_{im\ min}$	$e_{4\ min}$	$e_{5\ min}$
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

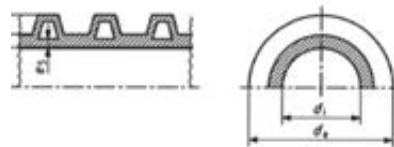
TYPE A

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

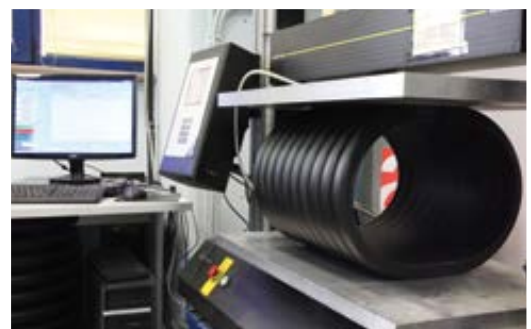
d_i inside diameter

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.



PE and PP are 100% recyclable materials

ENVIRONMENTAL SUSTAINABILITY



CIRCULAR ECONOMY

Economic system which has been thought for self-regeneration.



plastic
second life
FROM SEPARATE
WASTE COLLECTION



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 ³
Average coefficient of linear thermal expansion	$\approx 14 \times 10^{-5}$	$\approx 17 \times 10^{-5}$	K ⁻¹
Thermal conductivity	$\approx 0,2$	$\approx (0,36 \text{ a } 0,50)$	WK ⁻¹ m ⁻¹
Specific heat capacity	≈ 2000	$\approx (2300 \text{ a } 2900)$	Jkg ⁻¹ K ⁻¹
Electric resistivity	$> 10^{12}$	$> 10^{13}$	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_s]	90 – 95
Hazen-Williams [C]	140 – 150
Manning [n]	140 – 150



HYDRO16

PP SN 16 kN/m²

MADE BY ITALIANA CORRUGATI



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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



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HDPE CORRUGATED PIPES
IN BARS, FOR SEWERAGE



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_{AMR}

MADE BY  **ITALIANA CORRUGATI**

HDPE CORRUGATED PIPES
IN BARS
FOR WATER FLOW
VELOCITY REDUCTION



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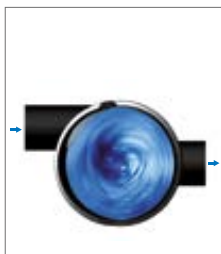
Standard length

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:

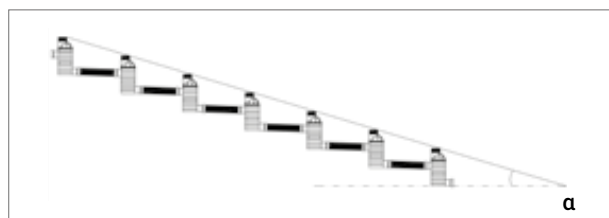
- they reduce the speed of water in the manhole
- they reduce the risk of occlusion and spit up of the exit pipe
- self cleaning of the manhole's base



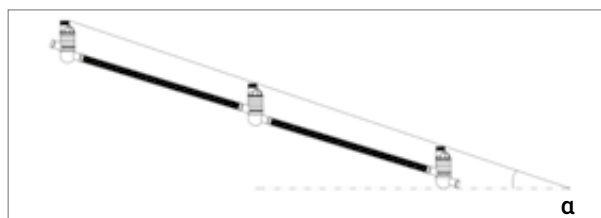
MAIN FEATURES

- > 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



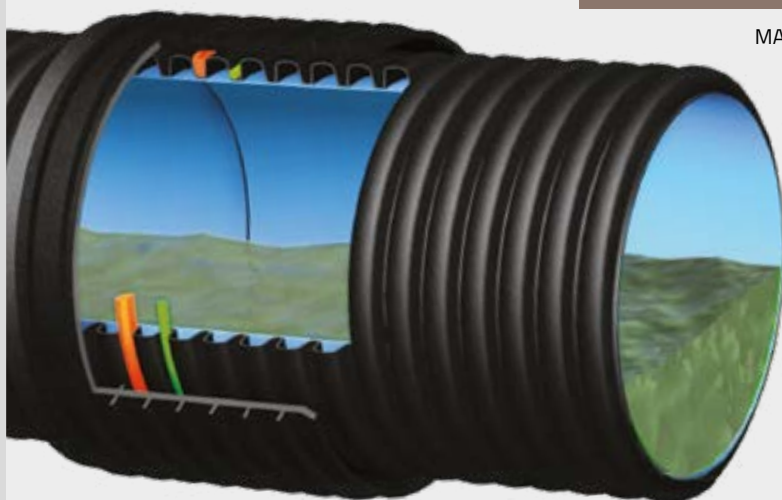
SLOW FLOW AMR system with vortex manholes





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]



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.



BENEFITS

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

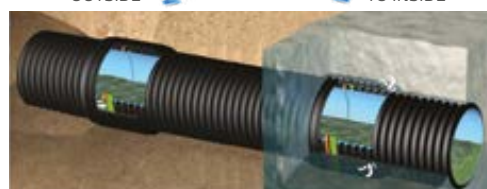
EPDM gasket
according to
EN 681

EXPANDER:
bentonite
gasket



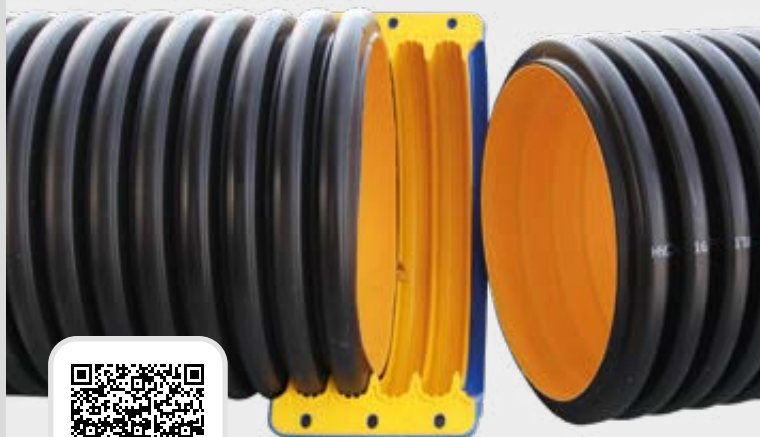
WASTEWATER
LEAKAGE FROM
INSIDE TO
OUTSIDE

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

YouTube



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



scan me



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

Ø 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.

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



SPIRAL PIPES



scan me

SGK
SYSTEM GROUP SKRAH

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

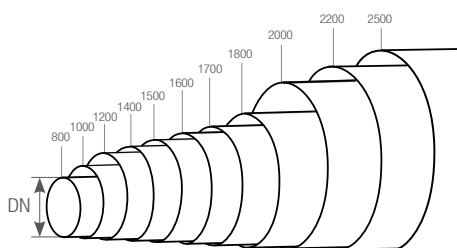
1800

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

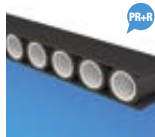
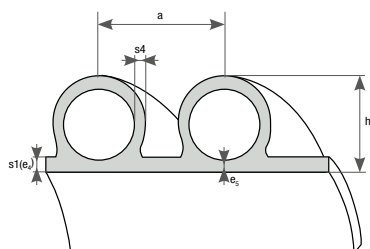
offset
inspections



out-of-gauge
tangential
inspection

big traditional
manhole

MAIN PROFILES



ELECTROFUSION JOINTS



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

TANKS - RETENTIONING SYSTEMS - OIL AND SAND SEPARATORS



FITTINGS

PE-PP FORMED FITTINGS



scan me

MADE BY 

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				
125	-	30° ELBOW	45° ELBOW	60° ELBOW	90° ELBOW
160	-				
200	-				
250	-				
-	250				
315	-				
-	300				
400	-	TEE 90°	TEE 45°	TEE 90° REDUCED	TEE 45° REDUCED
-	400				
500	-				
-	500				
630	-				
-	600				
800	-				
-	800				
1000	-				
-	1000				
1200	-				

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

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



PE INJECTION MOULDED FITTINGS

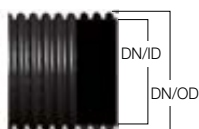
MADE BY Futura



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CORRUGATED PIPE



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	-



MAIN FEATURES

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

45° ELBOW



REDUCING M/F



TEE 90°



45° ELBOW



90° ELBOW





Cor⁺ 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



Ø mm
110
125
160
200
250
315
400
500

45° REDUCING TEE WITH O-RING



Ø 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



Ø 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



Ø mm
110
125
160
200
250
315
400
500

MALE SCREW CAP



Ø mm
110
125
160
200
250
315

45° DOUBLE TEE WITH O-RING



Ø mm
110
125
160

MALE END CAP



Ø mm
110
125
160
200
250
315
400

INSPECTION PIPE WITH O-RING AND CAP



Ø mm
110
125
160
200
250
315
400
500

CHECK VALVE WITH O-RING C/1 AND SINGLE



Ø mm
110
125
160
200
250
315

90° MECHANICAL CLIP (SADDLE) WITH O-RING



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

ECCENTRIC ENLARGER COUPLING WITH O-RING



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

45° SADDLE COUPLING WITH O-RING



Ø 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



Ø mm
110
125
160
200

TYPE SYPHON WITH O-RING



Ø mm
110
125
160
200
250
315

TYPE SYPHON WITH O-RING WITH TWO CAPS



Ø mm
110
125
160
200
250
315

GASKETS



Ø mm
110
125
160
200
250
315
400
500

NON PRESSURED SEWER SYSTEMS



without pressure



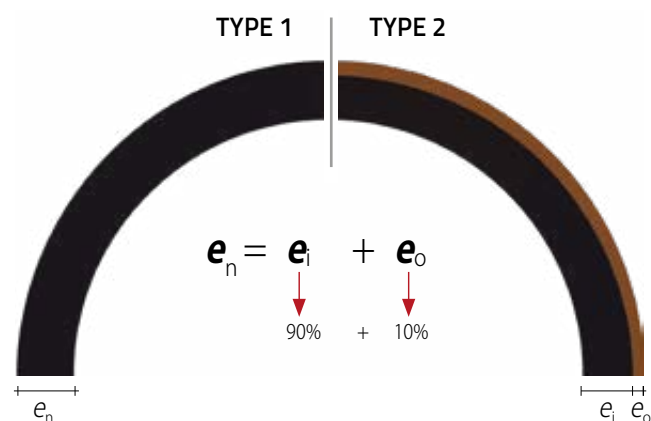
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MADE BY CENTRAL TUBI

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

	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]



Visual safety of carving degree measurement of the external wall



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



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

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  Futura





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

Reduction cone

Manhole's body

Built-in ladder

Anti-slip

Moulded base with ladder carrier



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 **SAB**
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
 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



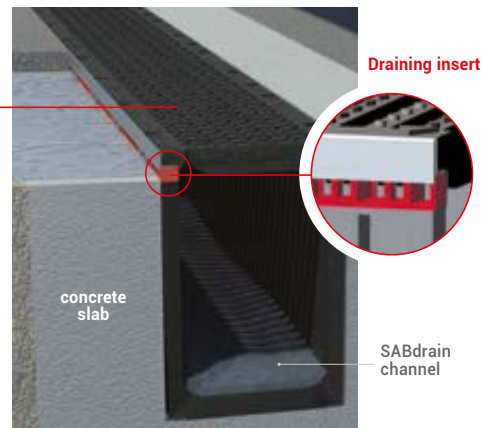
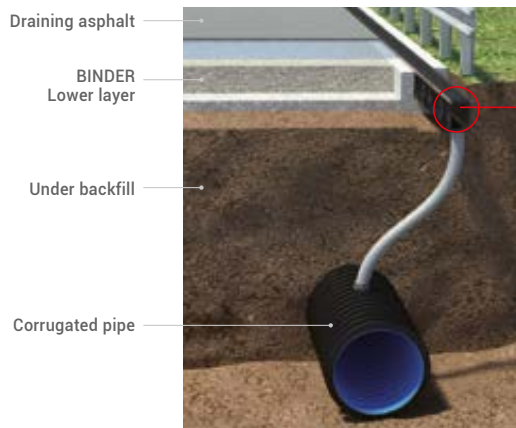
GALVANIZED STEEL GRID



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	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		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

PE SPIRAL PIPES			
DN/OD	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
110	11,8	540	6.372	5,75	912	5.244	90		5,9	1.508
125	11,8	410	4.838	5,75	750	4.312,5	110		5,9	1.002
140	11,8	320	3.776	5,75	600	3.450	125		5,9	756
160	11,8	238	2.808,4	5,75	473	2.719,75	160		5,9	412
180	11,8	182	2.147,6	5,75	312	1.794	200		5,9	256
200	11,8	154	1.817,2	5,75	294	1.690,5	250		5,75	144
225	11,8	120	1.416	5,75	228	1.311	300		5,75	84
250	11,8	99	1.168,2	5,75	188	1.081	315		5,9	112
280	11,8	80	944	5,75	120	690	400		5,9	68
315	11,8	63	743,4	5,75	118	678,5	400		5,9	40
355	11,8	48	566,4	5,75	76	437	500		5,75	46
400	11,8	35	413	5,75	60	345	500		5,75	32
450	11,8	29	342,2	5,75	52	299	600		5,75	24
500	11,8	24	283,2	5,75	48	276	630		5,75	30
560	11,8	18	212,4				800		5,75	16
630	11,8	15	177	5,75	24	138	800		5,75	10
710	11,8	11	129,8	*			1000		5,75	10
800	11,8	9	106,2	*			1200		5,75	6
900	11,8	6	70,8	*						
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



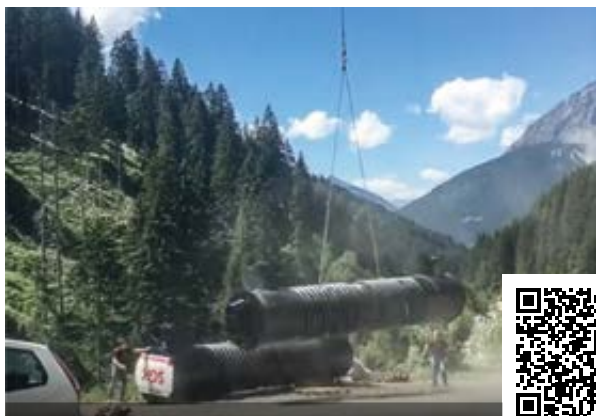
KONZA (KENYA 2019):
1° AFRICAN SMART CITY CONSTRUCTION

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



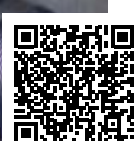
JERASH (JORDAN 2016): RAINWATER DRAINAGE CHANNELS REPLACEMENT IN SERVICE STATIONS

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

HYDR016 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 M³ 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



flickr



OTHER PRODUCTS FROM SYSTEM GROUP



**PRESSURE
SYSTEMS**



**GRAVITY
SYSTEMS**



**RAINWATER
HARVESTING**



**TELECOM,
ENERGY AND MCV**



IRRIGATION



**MARINE,
AQUACULTURE
AND DREDGING**



**BIOGAS
AND LANDFILL**



SERVICES



**TECHNICAL
MANUALS**



Note

Software design tools and
technical documentation
available on **www.tubi.net**



SYSTEM GROUP EXPORT

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