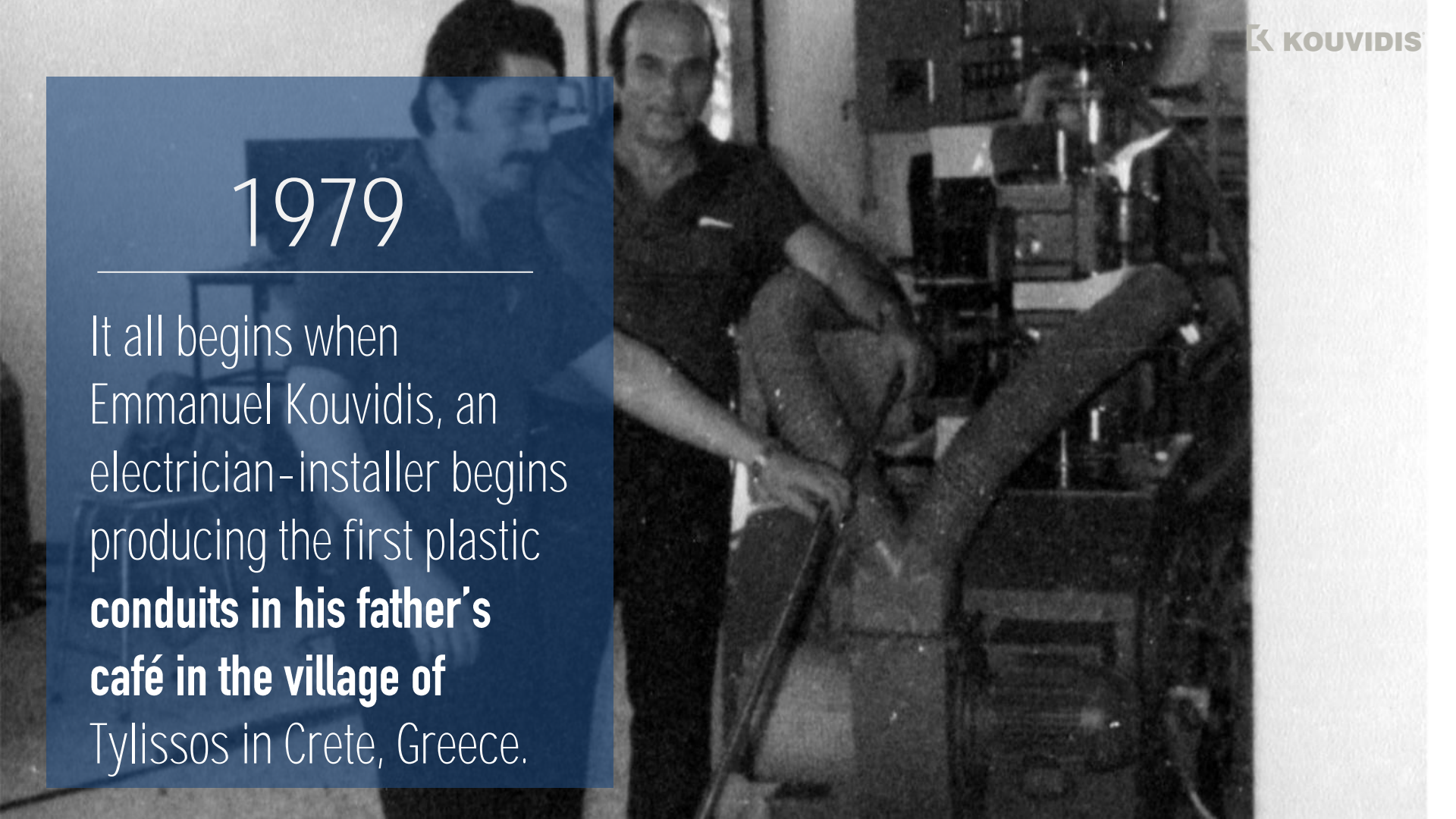


 **KOUVIDIS**[®]

forever safe

1979

It all begins when Emmanuel Kouvidis, an electrician-installer begins producing the first plastic conduits in his father's café in the village of Tyliossos in Crete, Greece.



Today

We are one of the largest Greek plastic pipe manufacturers, specialized in the development and production of plastic piping systems for cable management & protection, sewage & drainage





for 44 years we design and produce the
SAFEST plastic piping systems for cable
protection, sewage and drainage...

ABOUT US

Quick info



01

OUR PREMISES 2001

KOUVIDIS
FACILITIES
2001

A MILESTONE YEAR





New production area

New offices building

Warehouse expansion

New quality lab

7000 m² more space

6€ million investments

98% completed

KOUVIDIS PREMISES

2023

NEW ERA

ABOUT US

QUICK INFO



44 years
of specialization in the production
of plastic piping systems



2 subsidiaries
in Cyprus and Germany



1 subsidiary
specialized in the supply
chain management industry



34 exporting
countries



4 distribution centers
in Greece (Heraklion, Athens,
Thessaloniki) & Cyprus (Nicosia)



23 patent
degrees



20 fully automated
production lines

SUSTAINABILITY QUICK INFO



15 years

Implementation of management systems
for quality, employees & environment
(ISO 9001, ISO 14001, ISO 45001)



100%

Recyclable packaging



59

Privately owned low emission
vehicles



50%

Renewable energy sources



100%

Energy saving
KNX, BMS

OUR PEOPLE QUICK INFO



110
Employees



Best workplaces
Distinction among the 25 best
workplaces in Greece (2017)



100%
Increase of employees during the
last seven years (2015-2022)

QUALITY ORIENTED PRODUCTS

QUICK INFO



VDE and Bureau Veritas marks approval for most of our products

VDE Approved Place of Manufacture

VDE test reports according to EN 50642, EN 61034-2, EN 60764-2 for our halogen free series

KLS KOUVIDIS LOGISTICS





new subsidiary company specialized in the supply chain management industry

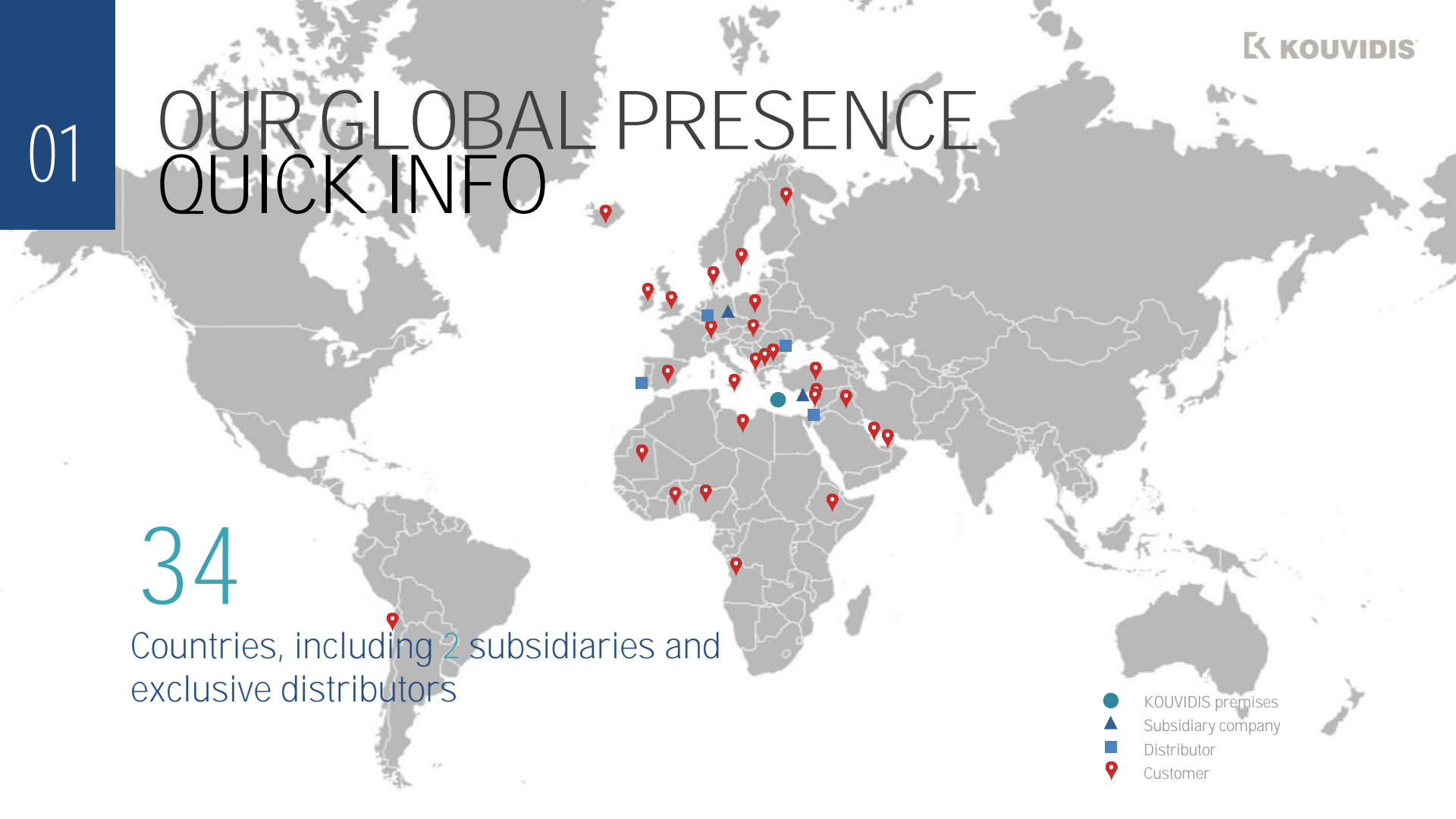


OUR GLOBAL PRESENCE QUICK INFO

34

Countries, including 2 subsidiaries and exclusive distributors

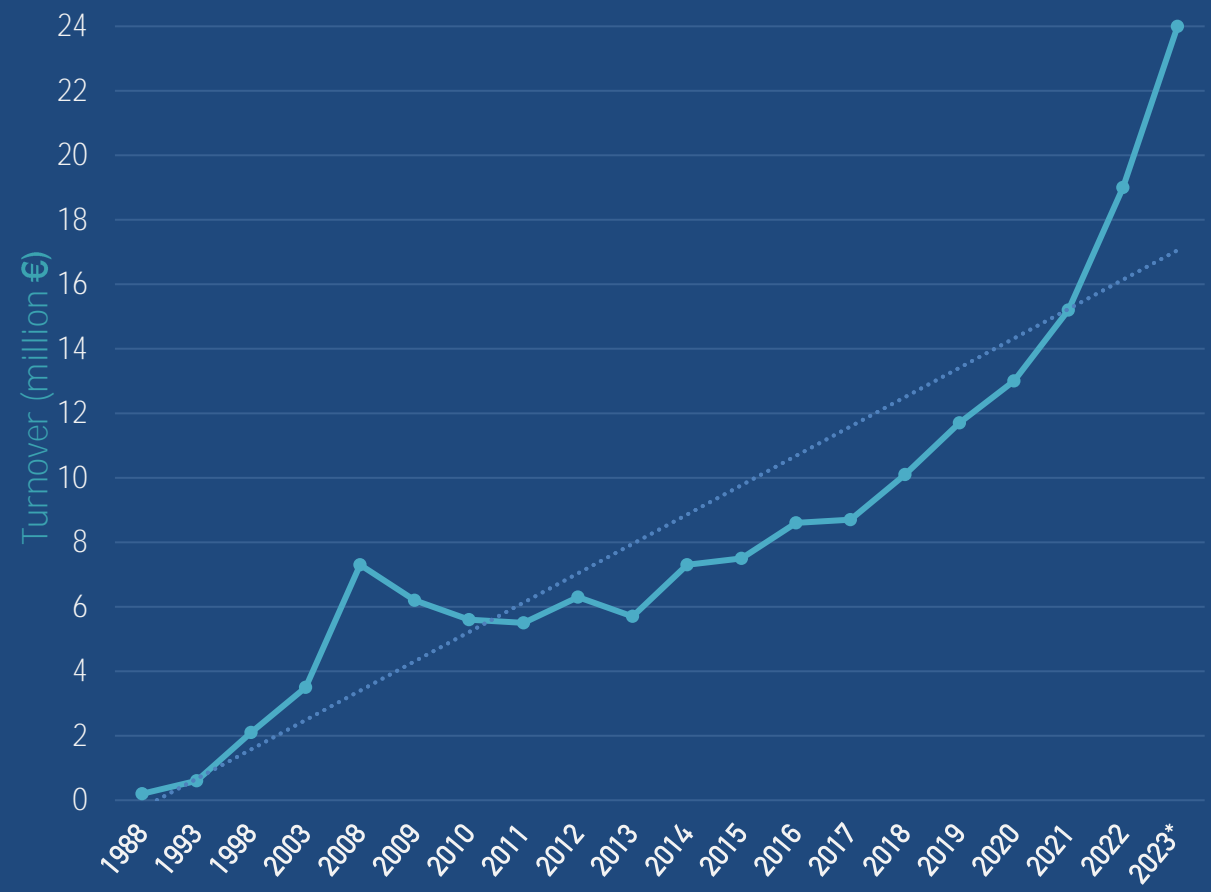
-  KOUVIDIS premises
-  Subsidiary company
-  Distributor
-  Customer



01

DATA SALES

+140%
Over the
last 5 years



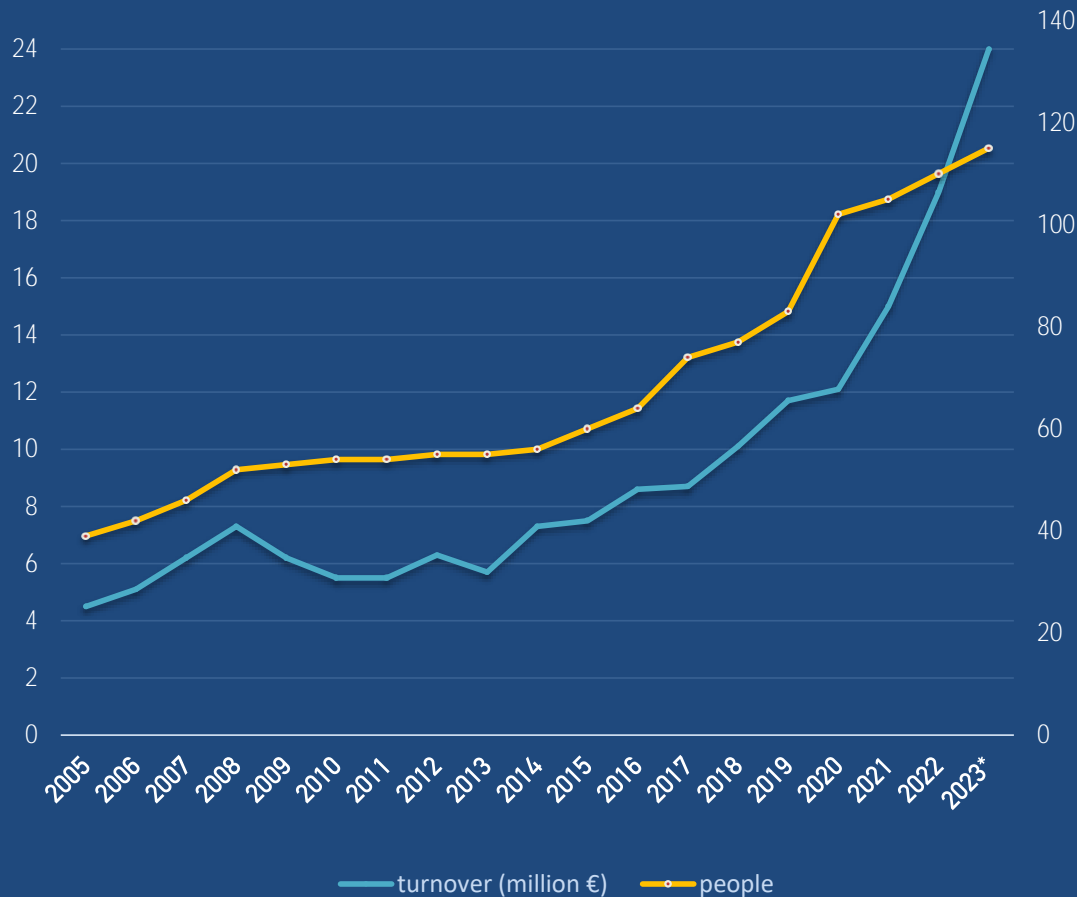
*estimation based on current development rate

01

DATA OUR PEOPLE

+100%

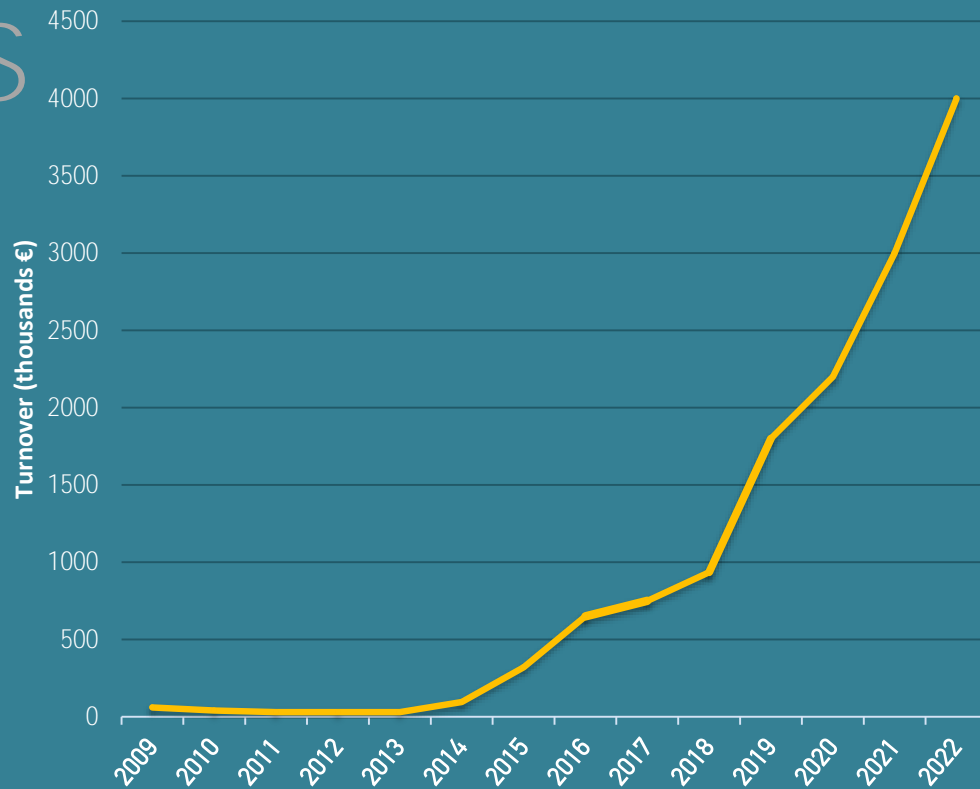
Increase of
employees
over the last
7 years



01

DATA OUR EXPORTS

Export
activity



REFERENCES

QUICK INFO

We design and develop products that meet the highest expectations, installed in the largest construction projects with zero unconformities

42 selected application fields



Public buildings



Commercial buildings



Residential buildings



Infrastructure



RES projects



Falirikos Ormos, Greece



Marina Limassol, Cyprus



AFI Park Mall, Romania



Costa Navarino, Greece



University of Cyprus, Cyprus



14 airports Fraport, Greece



Marina Ayia Napa, Cyprus



Piraeus III Floating dock, Greece



Solar Power Plants, Turkey



One Mircea Eliade, Romania

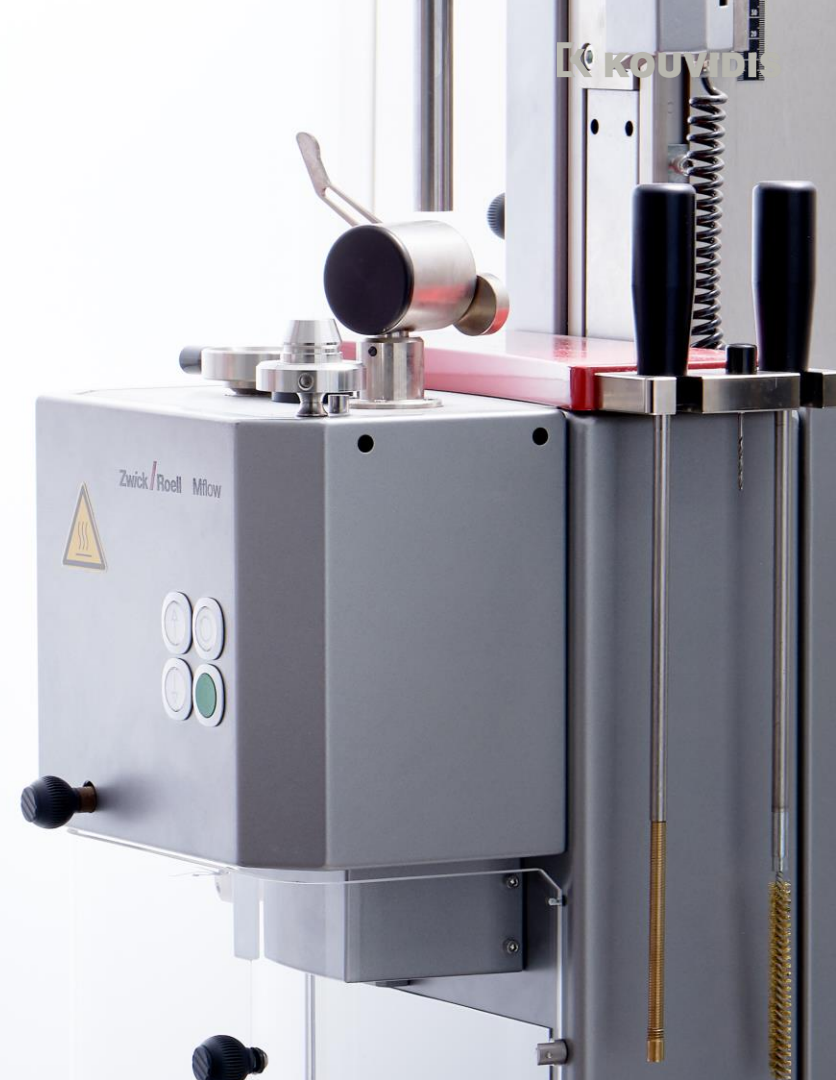


Egnatia highway, Greece

INNOVATION

New technologies in
plastic piping systems





PLASTIC TECHNOLOGY





Mechanical strength



Low Smoke



Antimicrobial technology



Low Friction



Low Acidity



Halogen Free



Anti-electromagnetic Technology



Color Identity



Anti-rodent Protection

PLASTIC TECHNOLOGY



UV stability

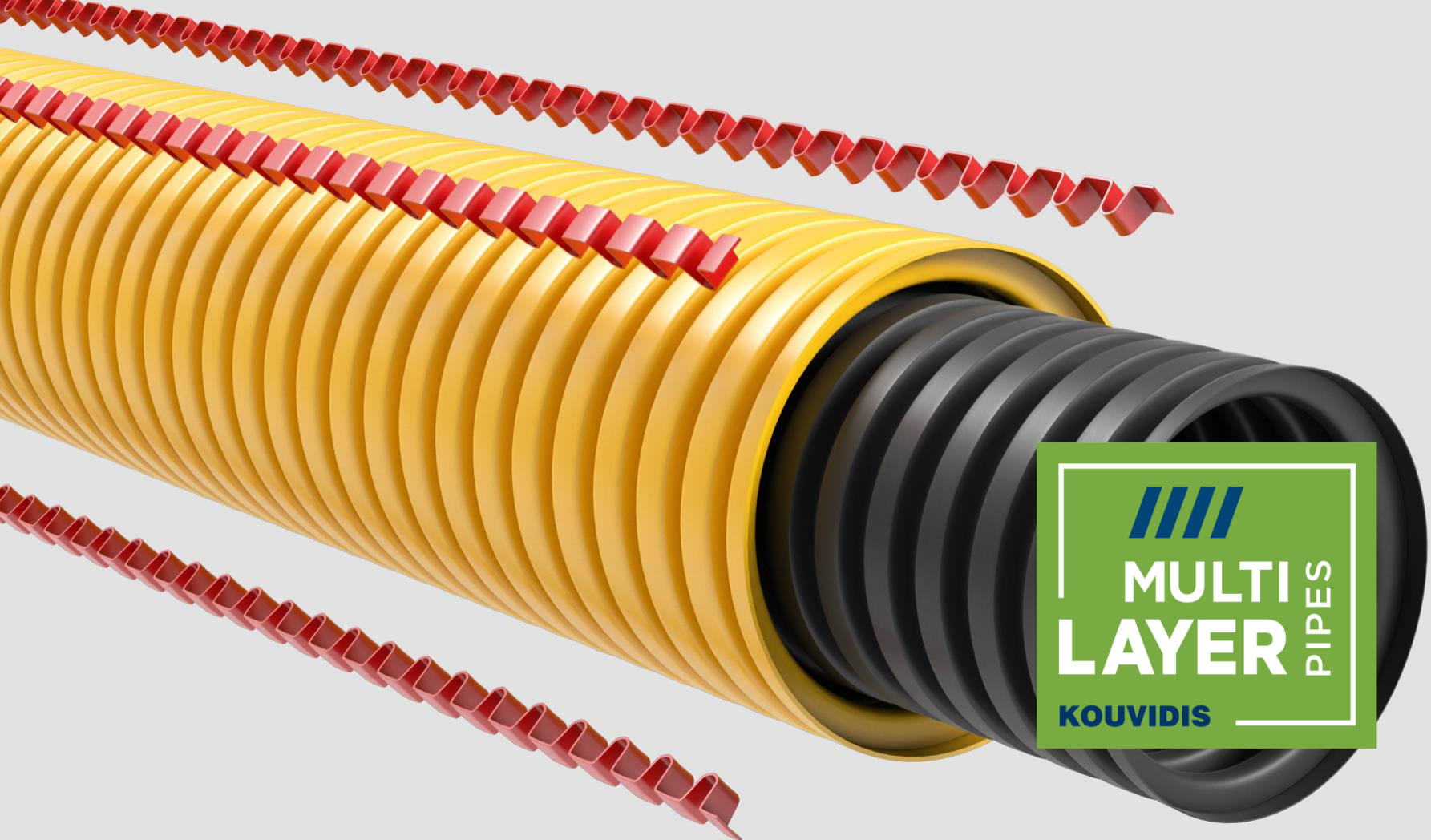


Antistatic Technology

CAN ALL
THESE
PROPERTIES
BE INCORPORATED
WITHIN ONE
PIPE?

HOW?





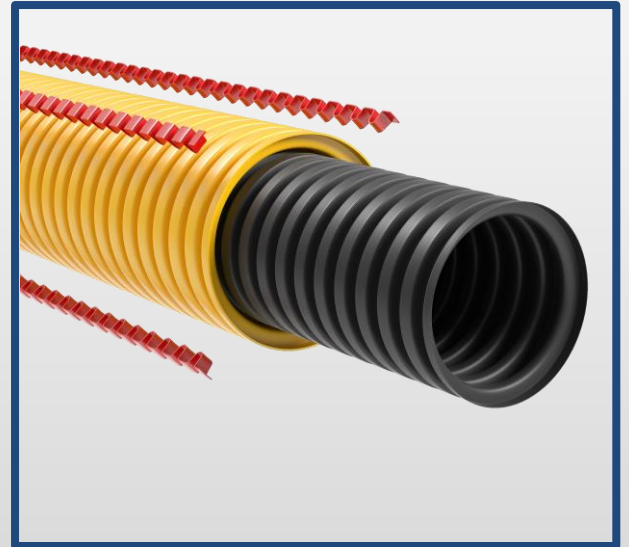

**MULTI
LAYER** PIPES
KOUVIDIS

MULTI-LAYER PIPES

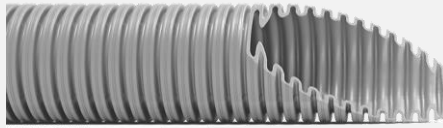
Multi-layer conduits adjust 100% in the contemporary plastic technology, ensure higher mechanical strength, make the installation easier due to their multiple benefits and secure a lower environmental footprint.

KOUVIDIS has penetrated into the multi-layer conduits world since 2012 by developing innovative products for numerous installation fields.

New generation of plastic conduits with friendly environmental profile

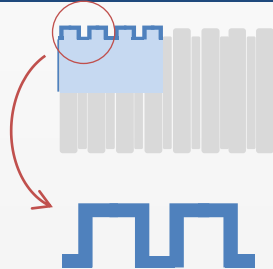


NEW GENERATION MULTI-LAYERED CONDUITS

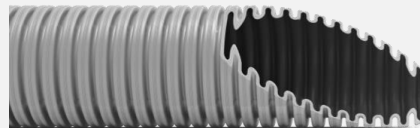


1 Layer

corrugated

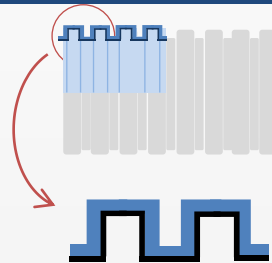


ONE LAYER

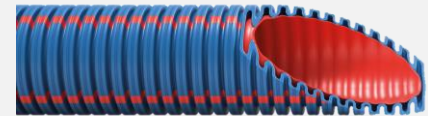


2 Layers

corrugated (both internally and externally)

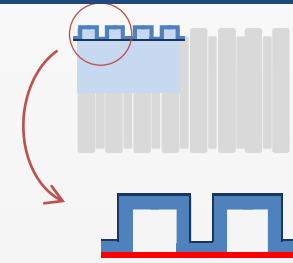


DOUBLE LAYER



3 Layers

Two corrugated and one smooth (internal)



DOUBLE WALL

02

MULTI-LAYER CONDUITS KOUVIDIS

9

new product series
(2012-2023)

~ 11 mill.€

yearly sales

> 9 mill.€

investments

+ 180%

sales within the last 5 years

> 50%

of our sales for exports

50%

of our daily sales

02

MULTI-LAYER CONDUITS KOUVIDIS

7

NEW production lines

60.000m

are being placed in a daily basis



40.000km

have been installed within the last decade*

** the estimate for 2023 is included*

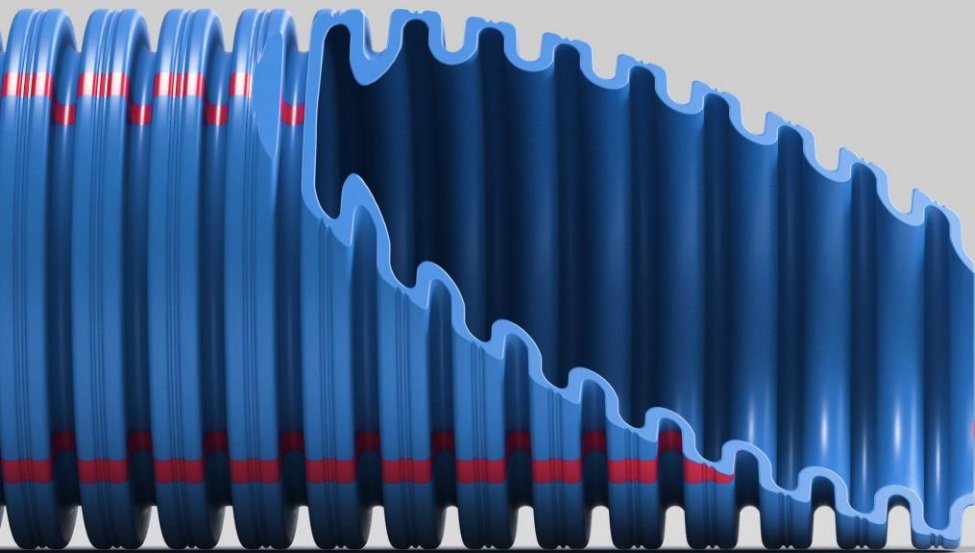
As is the perimeter of the EARTH



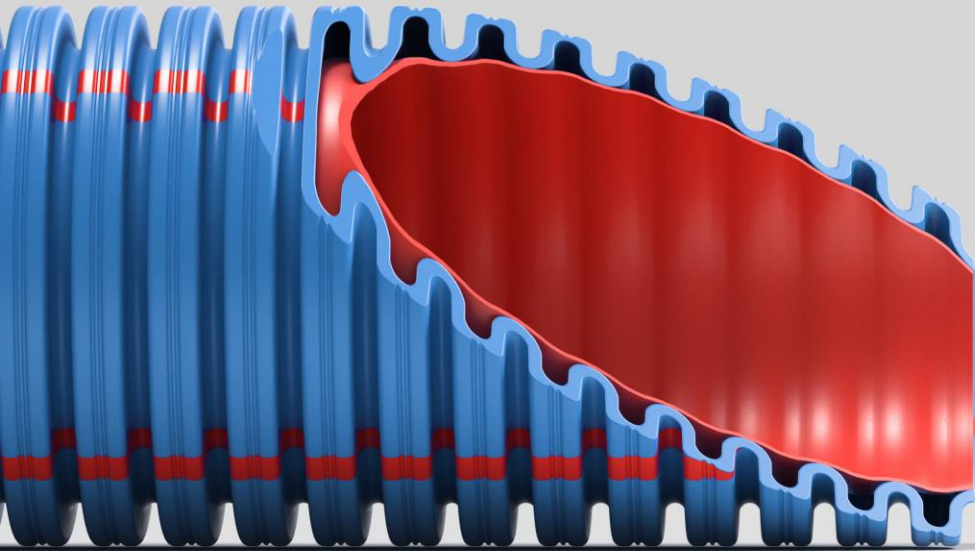
DUROFLEX PLUS

For concealed type installations in concrete





THE INNOVATION

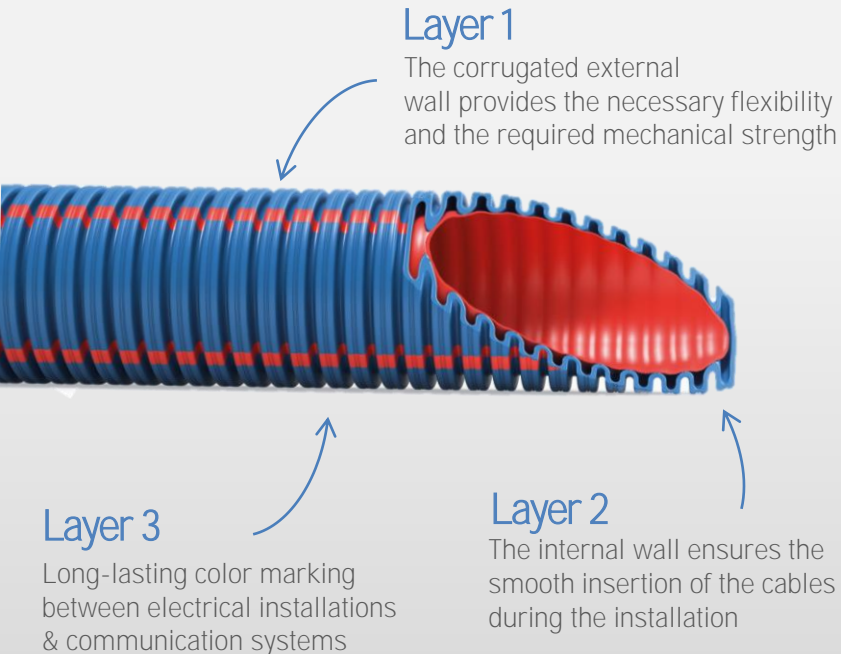


THE INNOVATION

The CREATION of a conduit that will isolate the benefits of rigid conduits (smooth inner surface) and pliable conduits (ease at bend).

2.1

DUROFLEX PLUS (750Nt) DOUBLE WALL CONDUITS



Ø20 – Ø32

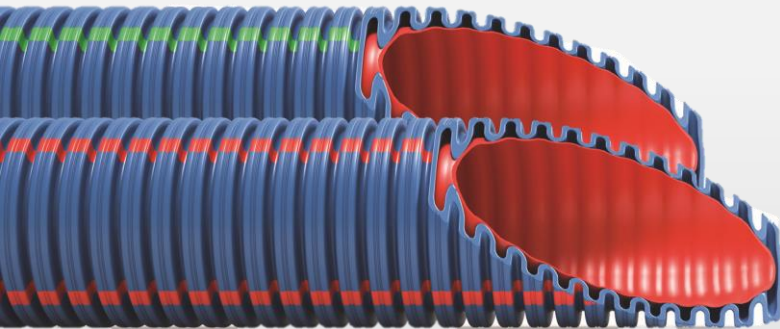
Applying its manufacturing know how on structured wall conduits in small diameters, KOUVIDIS becomes **the first company in Europe** daring such an investment.

Installations in concrete

2.1

DUROFLEX PLUS (750Nt) PROPERTIES

Class: 33332



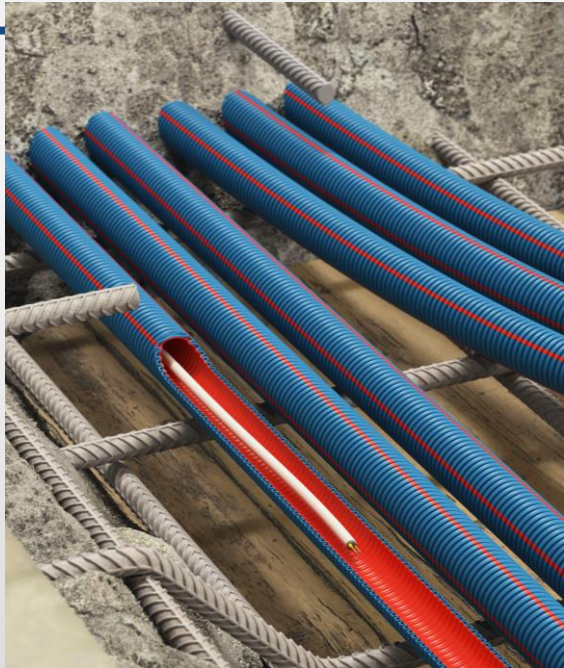
==== Power cables

==== Telecommunication
cables

- Special **ultra slip material** is added in the internal layer, ensuring the smooth insertion of cables
- **Color marking** indicating the power of the protected cables.
- Very good performance over **concrete** chemical substances
- High mechanical resistance in **high temperature of 105°C**
- The internal layer incorporates **animal repellent**
- Made from **halogen free** raw materials based on PP
- **Low smoke** emission during combustion

2.1

DUROFLEX PLUS (750Nt) FASTER & EASIER



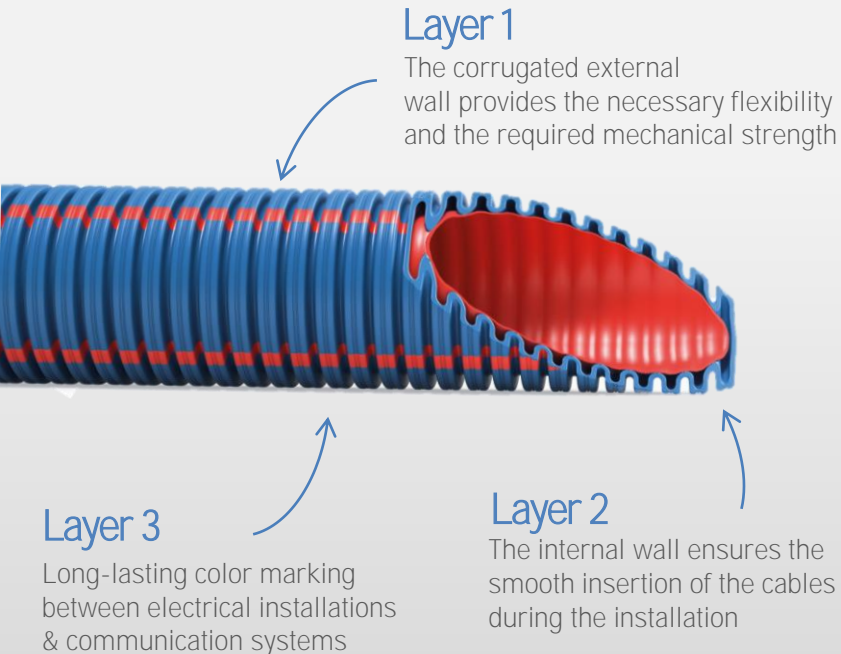
50%

LOWER FRICTION
(IEC/TR 62470)



2.1

DUROFLEX PLUS (750Nt) DOUBLE WALL CONDUITS



Ø20 – Ø32

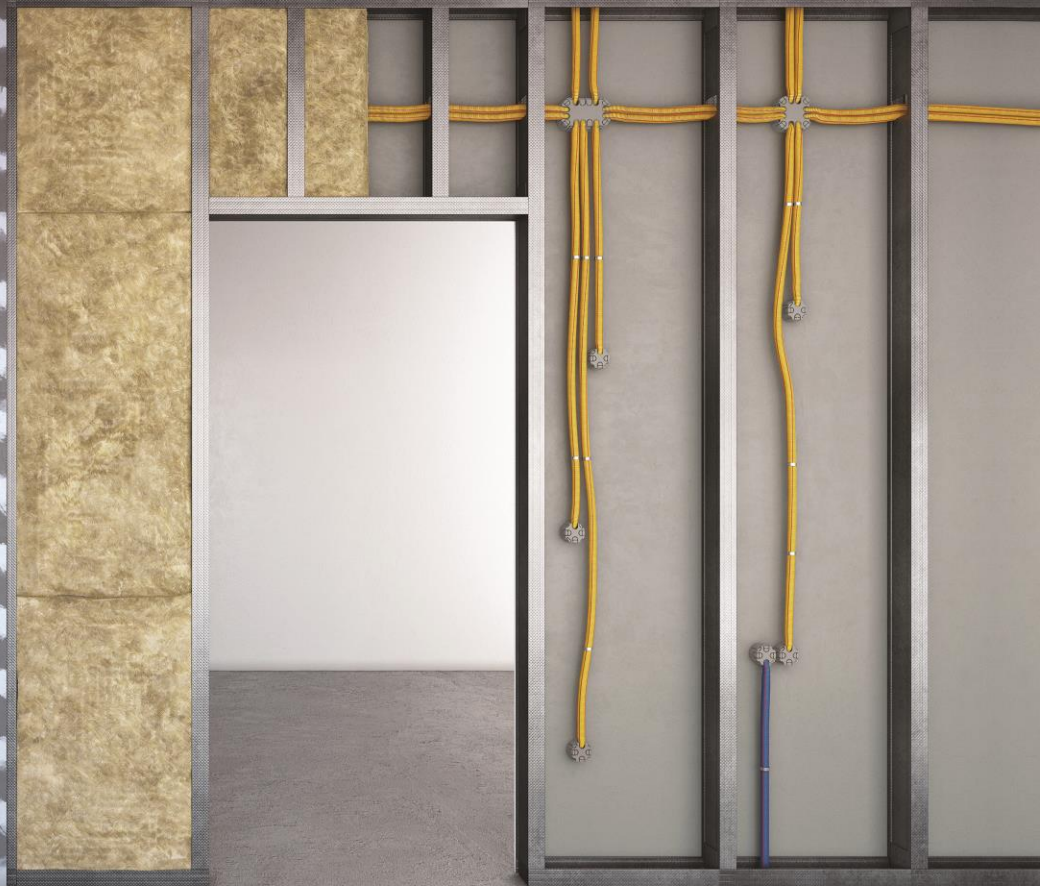
Applying its manufacturing know how on structured wall conduits in small diameters, KOUVIDIS becomes **the first company in Europe** daring such an investment.

Installations in concrete



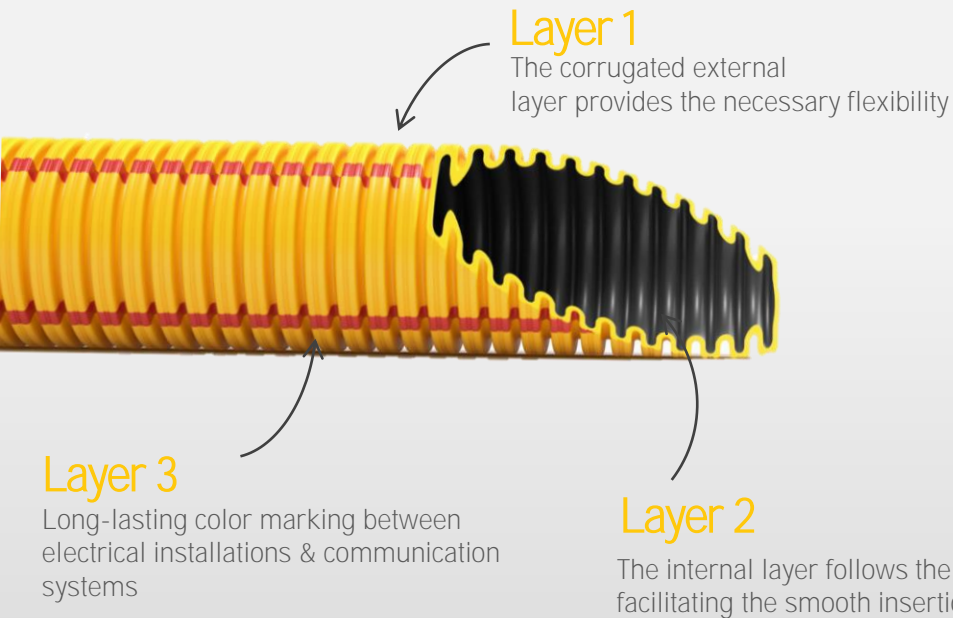
SUPERFLEX PLUS

For concealed type installations in
plasterboard, cavity wall & sub-ceiling



2.2

SUPERFLEX PLUS (320Nt) 3 LAYER CONDUIT



Ø16 – Ø32

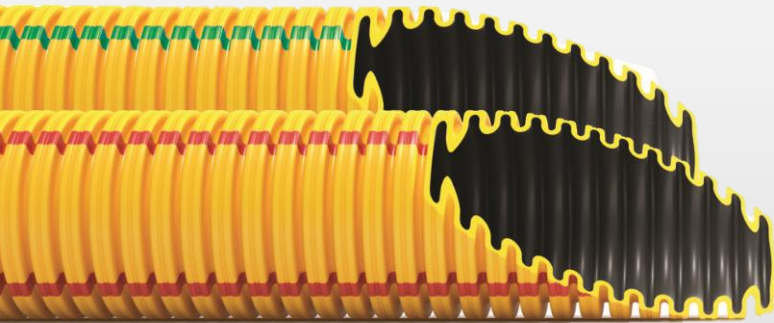
New generation of three-layer conduits with **anti – electromagnetic technology**

Installations in plasterboard, cavity wall and sub-ceiling

2.2

SUPERFLEX PLUS (320Nt) PROPERTIES

Class: 23332



Power cables

Telecommunication cables

- The inner layer incorporates an innovative anti - electromagnetic technology
- Special ultra slip is added in the internal layer, ensuring the smooth insertion of cables
- Color marking indicating the power of the protected cables.
- High mechanical resistance in high temperature of +105°C
- Made from halogen free raw materials based on PP
- Low smoke emission during combustion



SUPERFLEX PLUS (320Nt)

ANTI-ELECTROMAGNETIC TECHNOLOGY



Need

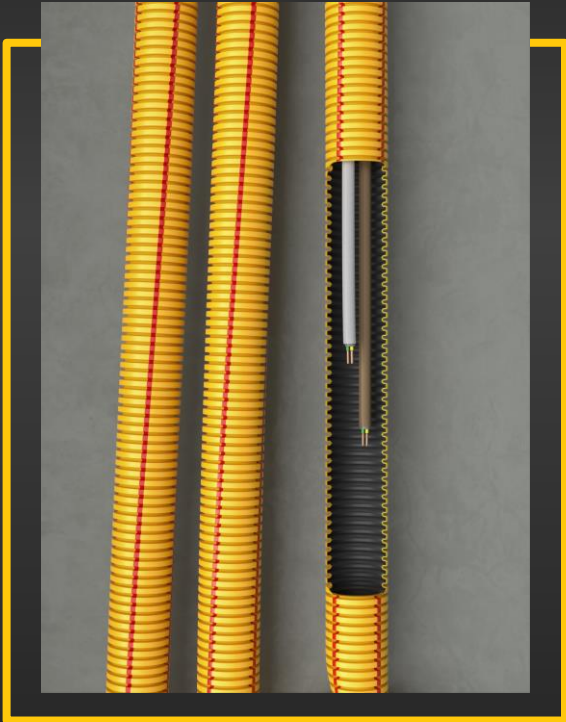
All cabling, both in residences and business premises, that is used to transfer energy and provide supply to electric devices, creates so-called low-frequency magnetic fields, as well as electric fields, that remain even after the devices have been inactivated.

Importance

Thanks to anti-electromagnetic technology, part of the radiation originating from cabling is isolated within the interior layer of SUPERFLEX PLUS conduits, while the interference created between circuits (weak and strong currents) is minimized.

SUPERFLEX PLUS (320Nt)

ANTI-ELECTROMAGNETIC TECHNOLOGY



How does it work

We developed a ground-breaking polymer of a special composition, where metal elements of low particle size are added to the interior layer of the new plastic conduits, thus shielding part of the electromagnetic radiation generated by the electrical cables.

The interior of the conduit functions as a shield against these fields, while its exterior protects the internal cables, in accordance with the requirements of European standard EN 61386-22.

Application field

This technology is ideal for plasterboard partition walls or cavity walls, in spaces such as office buildings, hotel rooms and residences

2.2

SUPERFLEX PLUS (320Nt) FASTER INSTALLATION



40%

LOWER FRICTION
(IEC/TR62470)



2.2



LESS MASS

MORE METERS

AWARDS '21
Packaging

Silver

AWARDS '21
Packaging

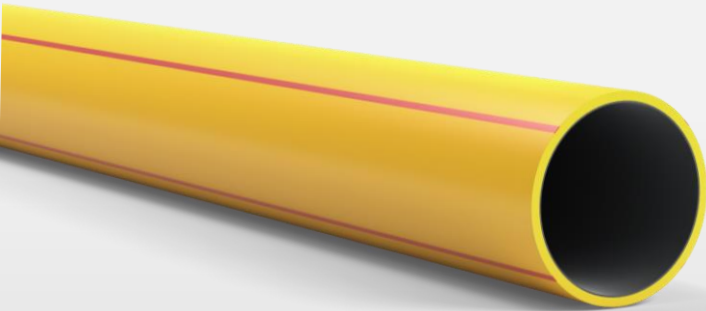
Bronze



NEW GENERATION
RIGID CONDUITS
SUPERSOL PLUS
FOR UNDERPLASTER

2.3

SUPERSOL PLUS (320Nt) 3 LAYER RIGID CONDUIT

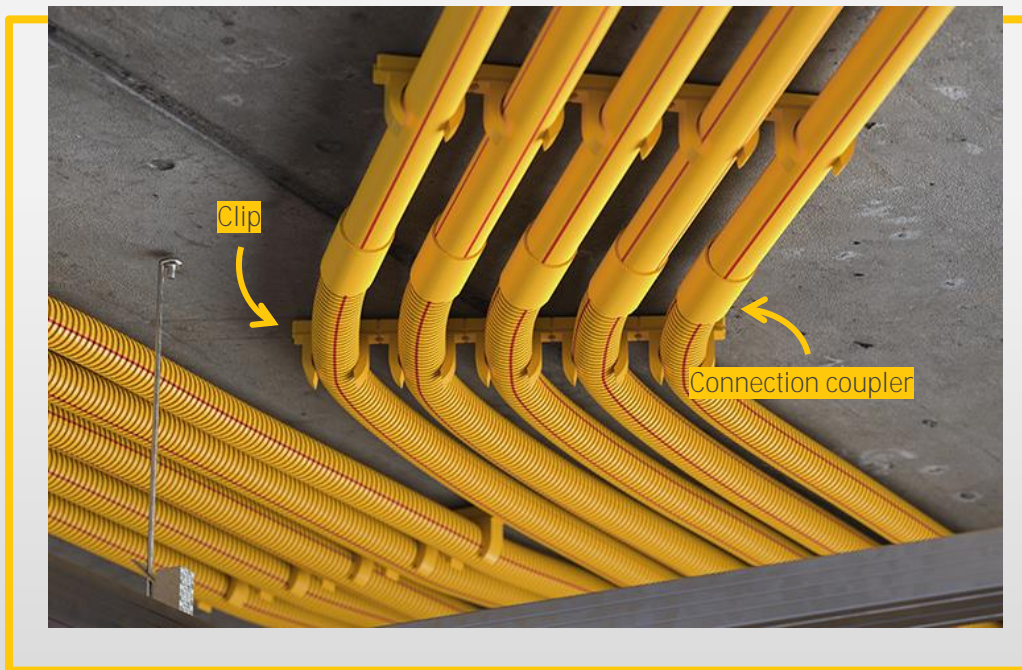


NEW PRODUCT

- The inner layer incorporates an innovative anti-electromagnetic technology
- Special ultraslip is added in the internal layer, ensuring the smooth insertion of cables
- Color marking indicating the power of the protected cables.
- High mechanical resistance in high temperature of +105°C
- Made from halogen-free raw materials
- Low smoke emission during combustion

2.3

SUPERSOL PLUS & SUPERFLEX PLUS CONDUIT SYSTEM Ø16-20-25-32



2.3

SUPERSOL PLUS & SUPERFLEX PLUS

METAL CLAMP for DRYWALL

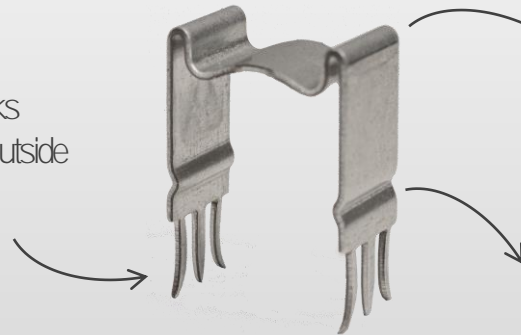


Ø16, Ø20, Ø25, Ø32

New specially designed metallic clamp for fast, easy and safe conduit impact mounting in drywalls.

Sendzimir galvanized steel for additional anti-corrosion protection

Specially designed hooks without damaging the outside of the wall



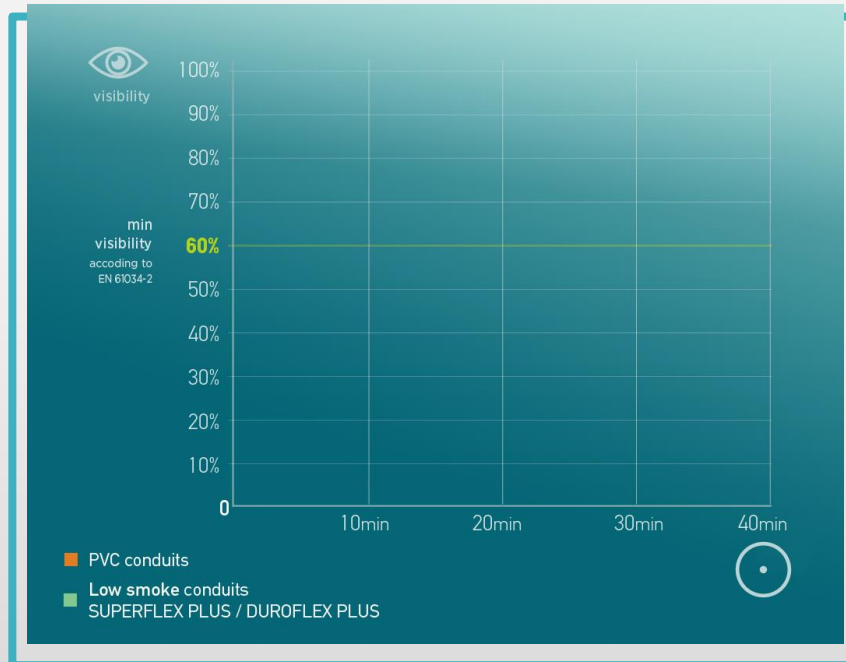
firm hold without drilling, one hit and the conduit is solid

Smart design which holds perfectly the conduit.

4 IMPORTANT POINTS



HALOGEN FREE & LOW SMOKE EMISSION



- Compliant with the fire protection regulation **364/2016/EE**
- Certified by the German Testing and Certification Institute - VDE
- Production Standards:
EN 50642
EN 60754-2
EN 61034-2



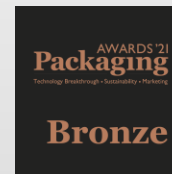
2.4

SPECIALLY DEVELOPED PACKAGING



New packaging design

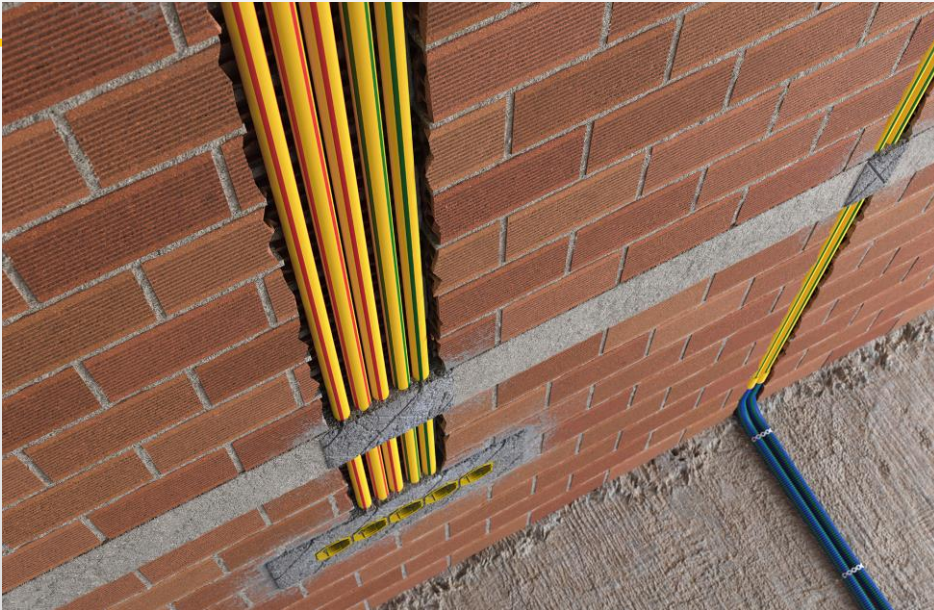
Specially developed, award-winning packaging that **reduces the volume from 25% to 50%** compared to the other conventional products.



2.4

COLOR MARKING

(NF P 98-332)



- Telecommunication cables
- Power cables

Indelible color marking follows the NF P 98-332 standard for better identification **of the conduits' purpose** and contents, increasing safety

DUROFLEX PLUS & SUPERFLEX PLUS & SUPERSOL PLUS ΣΥΝΔΕΣΙΜΟΤΗΤΑ



Couplers

DUROFLEX PLUS is connected with the innovative conduits SUPERFLEX PLUS and SUPERSOL PLUS with the use of a mutual connection coupler.

WHAT
IS NEXT?



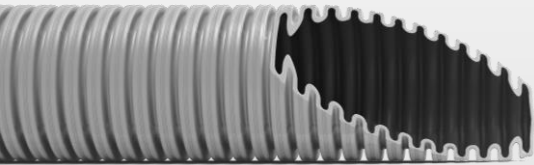
2.5

MEDIFLEX PLUS (750Nt)

NEW PRODUCT

Class: 33332

∅16 – ∅32



- For exposed indoor type installations
- Made from halogen-free raw materials
- Low smoke emission during combustion
- With anti-electromagnetic technology

2.5

MEDISOL PLUS (750Nt) NEW PRODUCT

Class: 33331
Ø16 – Ø32



- For **exposed indoor type** installations
- Made from **halogen-free** raw materials
- **Low smoke** emission during combustion
- With **anti-electromagnetic** technology
- Integrated system with MEDIFLEX PLUS

COMING SOON...



Plastic piping systems

for buried underground networks



2012-2022

Within this 10 year presence, the conduits GEONFLEX® — GEOSUB® have been proved as the most reliable choice for the electrician installer while at the same time they have been used at the biggest projects in Greece and abroad.

3.4

Conduit system GEONFLEX & GEOSUB Performance Indicators

1st

Product in sales in Greece
(2022)

3

production lines with 24h
operation

+187%

the last 5 years (Greece)

40.000_m

are being placed on a daily base

3.4

TIMELINE

- KOUVIDIS becomes the 1st purely Greek company that produces double structured wall conduits by launching the 1st generation of GEONFLEX conduits
- GEOSUB conduit is launched, the **“little brother” of GEONFLEX** does more than 1.000.000m of sales
- Longitudinal broad stripes of special indelible color are **introduced for the conduits’** identification
- New accessories upgrades are introduced along with one more diameter (Ø32) and a 3rd production line.
- Incorporates antistatic technology which protects against static electricity (Patent Protected: 1009810)
- GEONFLEX — GEOSUB received Gold award at Made in Greece Awards for Branded Industrial Product.



3.4

PLASTIC CONDUIT SYSTEMS BURIED UNDERGROUND

Ø32 – Ø250

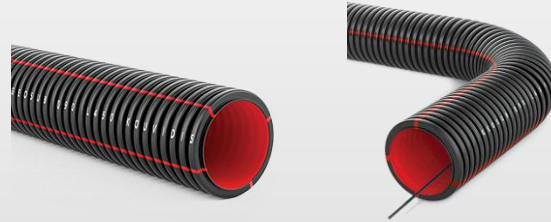
Normal type N750

GEONFLEX

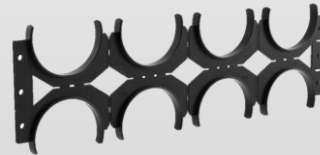


Light type L450

GEOSUB



ACCESSORIES &
INSTALLATION MATERIALS



3.4

GEONFLEX & GEOSUB
PROPERTIES

— Power cables

— Telecommunication
cables

- Wide range of diameters from $\varnothing 32$ to $\varnothing 250$
- Special **ultra slip** is added in the internal layer, ensuring the smooth insertion of cables (GEONFLEX)
- **Color marking** indicating the power of the protected cables.
- Not attractive to **rodents**
- Ensure **high ingress protection** (IP40/IP44 with KOUVIDIS connection couplers with hooks/ IP68 with KOUVIDIS adhesive & sealant)
- UV stabilized > 5 years
- Cable guide with minimum tensile strength 650Nt

3.4

GEONFLEX & GEOSUB IDENTIFICATION

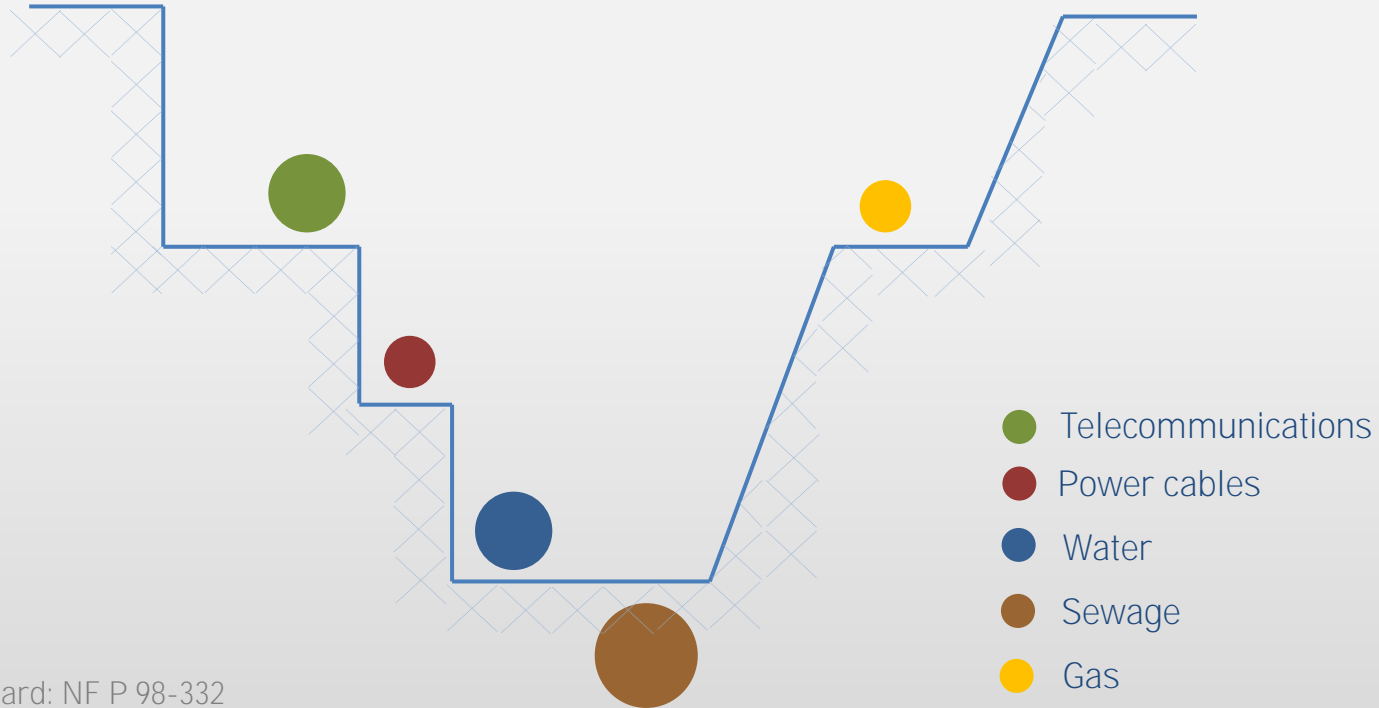


HINT: The width of the longitudinal lines is used to easily identify the 2 products.

Longitudinal broad stripes of indelible color are used for GEONFLEX conduits while thin stripes of indelible color are used for GEOSUB conduits.

3.4

Conduit system GEONFLEX & GEOSUB Color Identification



PRODUCT SERIES

for cable management
& protection





Plastic piping systems

Made from PVC

3.1

PLASTIC CONDUIT SYSTEMS MADE FROM PVC

4441

CONDUR – CONFLEX (1250Nt)

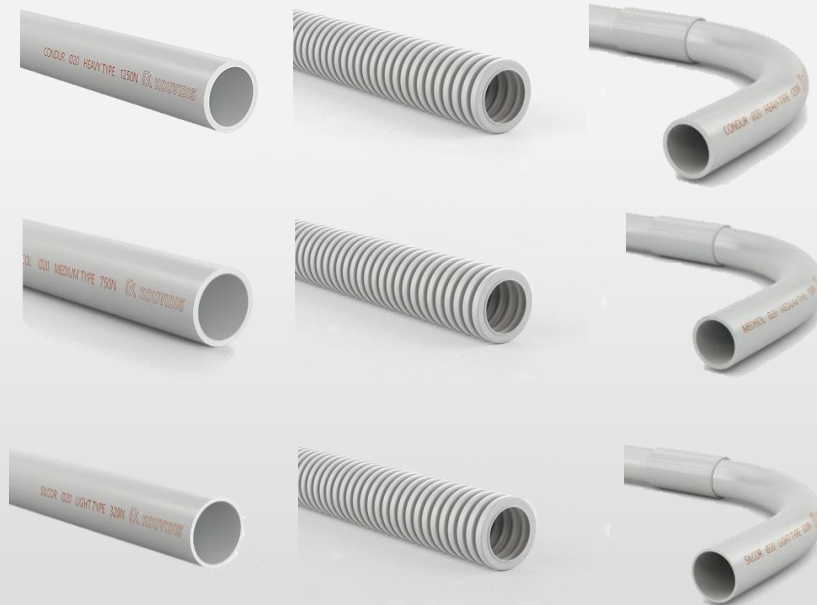
3341

MEDISOL – MEDIFLEX (750Nt)

2241

SILCOR – SIFLEX (320Nt)

Ø16 – Ø63



VDE marks Approval

3.1

PLASTIC CONDUIT SYSTEMS ACCESORIES

Accessories



CONDUR
Coupler



CONDUR
Clip



CONDUR
Adaptor

Junction boxes



CONDUR junction
box with seals



CONDUR junction
box with grommets



CONDUR junction box
with no seals



Plastic piping systems

Made from halogen free raw materials

3.2

PLASTIC CONDUIT SYSTEMS HALOGEN FREE

4441

CONDUR HF – CONFLEX HF (1250Nt)



VDE marks Approval

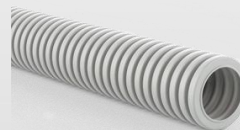
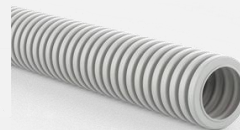
3341

MEDISOL HF – MEDIFLEX HF (750Nt)



Conduit impact strength

Ø16 – Ø63



HALOGEN FREE SERIES ACCESSORIES

Accessories



CONDUR
Coupler



CONDUR
Clip



CONDUR
Adaptor

Junction boxes



CONDUR junction
box with seals



CONDUR junction
box with grommets



CONDUR junction box
with no seals

HALOGEN FREE SERIES ADVANTAGES



- In case of a fire accident, **they don't release toxic and corrosive gases** during combustion, protecting people and environment
- They provide **higher protection of building facilities** and mechanical equipment due to the absence of corrosive gases during their combustion
- The conduits ensure **high impact resistance** in extreme low temperature conditions (at -45°C)
- They contain flame retardants that **reduce flame propagating**



Plastic piping systems

With antimicrobial technology

3.3

PLASTIC CONDUIT SYSTEMS ANTIMICROBIAL TECHNOLOGY

3341

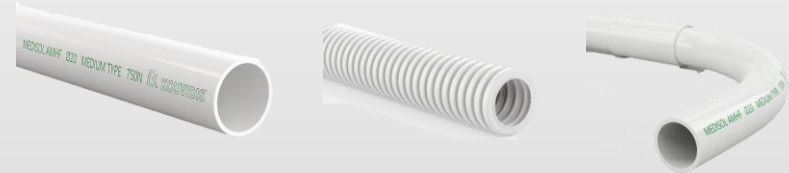
MEDISOL AM – MEDIFLEX AM (750Nt)



Ø16 – Ø63

3344

MEDISOL AMHF – MEDIFLEX AMHF (750Nt)



ANTIMICROBIAL SERIES ACCESSORIES

Accessories



MEDISOL AM
Coupler



MEDISOL AM
Clip



MEDISOL
AM Adaptor

Junction boxes



MEDISOL AM
junction box with
seals

3.3

ANTIMICROBIAL SERIES ADVANTAGES



- 99% of dangerous microorganisms eliminated within 24 hours - ISO 22196 (Certified by the British laboratory BIOCOTE)
- Integrated technology that prevents the growth of microbes including mold and fungi
- Reduction of contamination (risk of pathogens transmission) due to cleaner surfaces
- The antimicrobial protection against microbial colonization ultimately extends product's lifetime
- Greater effectiveness against viruses due to the antimicrobial activity of the active ingredients that appear on product's surfaces

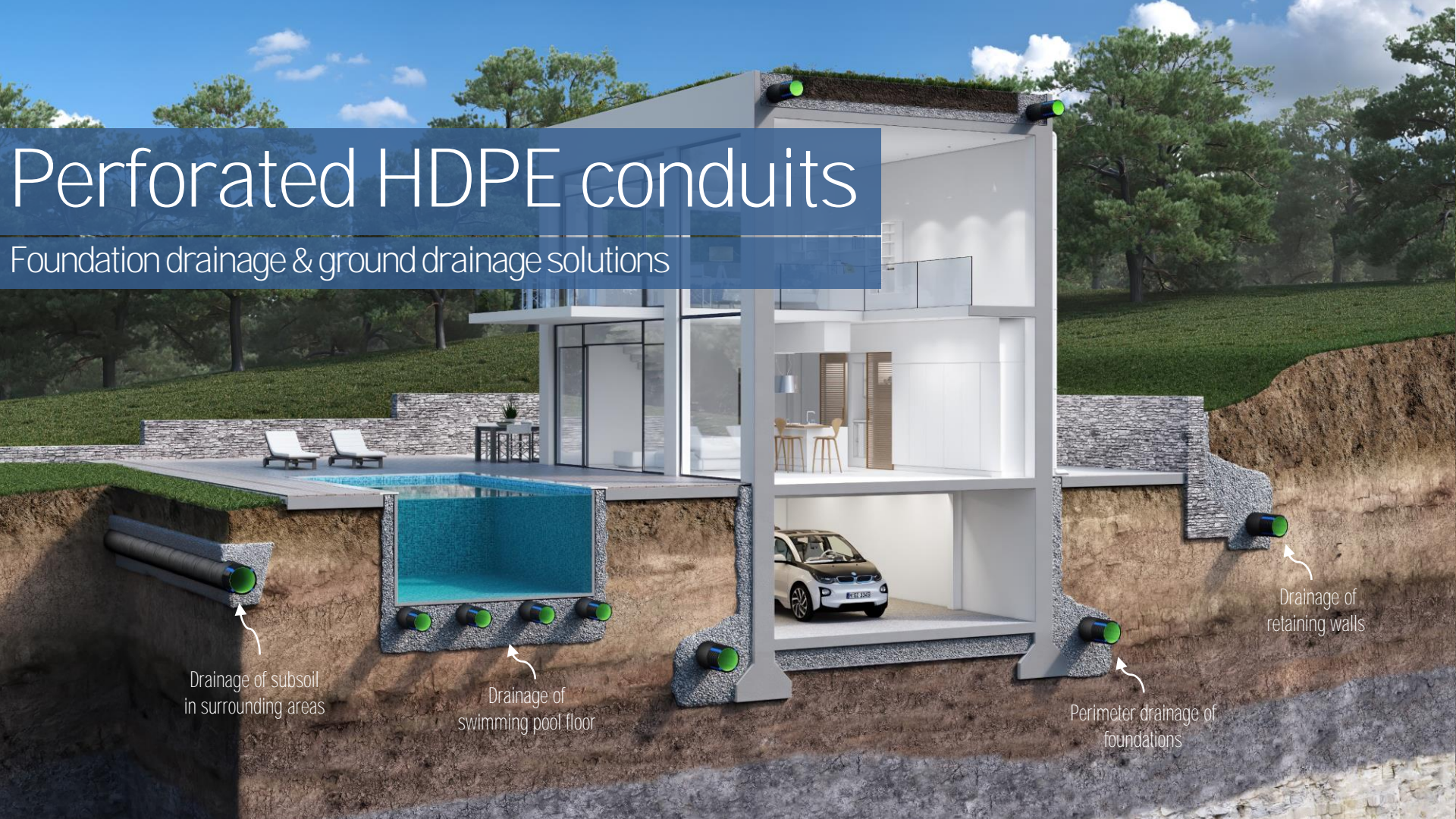
PRODUCT SERIES

for sewage & drainage



Perforated HDPE conduits

Foundation drainage & ground drainage solutions



Drainage of subsoil
in surrounding areas

Drainage of
swimming pool floor

Perimeter drainage of
foundations

Drainage of
retaining walls

GEODRAIN PLUS - NEW

4-layer perforated conduit for drainage

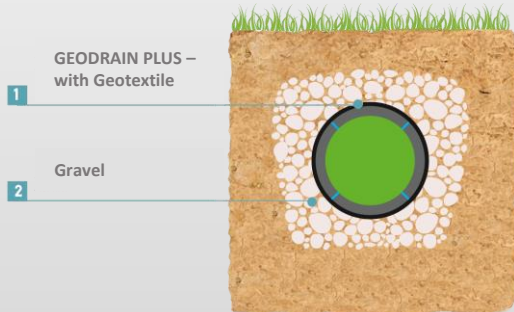
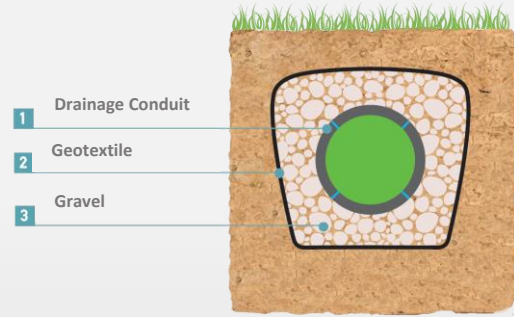
With pre-installed geotextile



4.1

DRAINAGE LAYERS

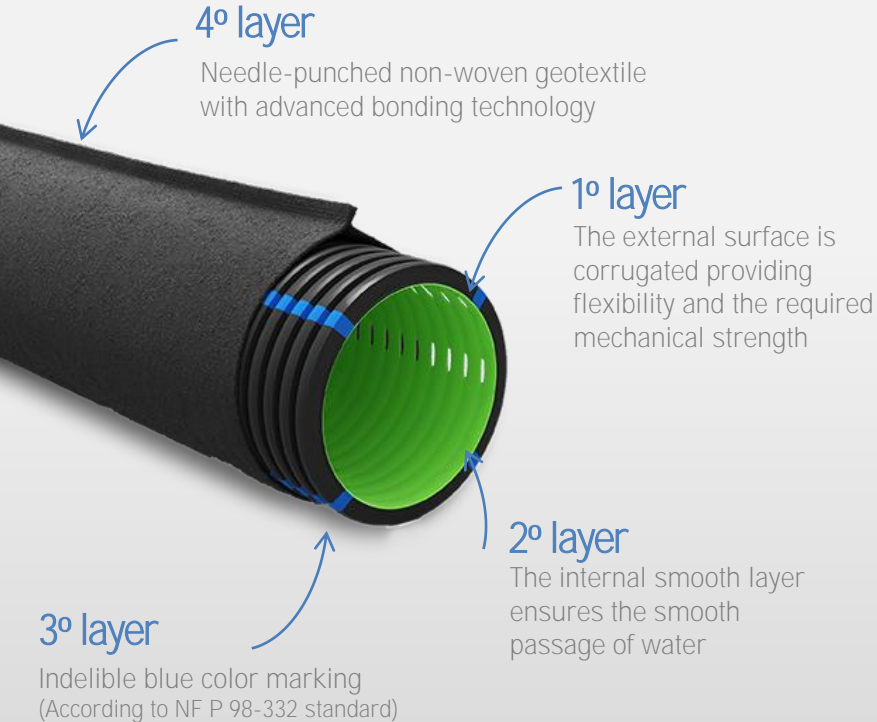
THE USE OF GEOTEXTILE



- Up to 50% fewer man-hours for the installation of the Geotextile
- Up to 50% less meters of Geotextile, as it is pre-installed to the drainage conduit

4.1

GEODRAIN PLUS



NEW GENERATION CONDUITS
4 LAYERED for drainage

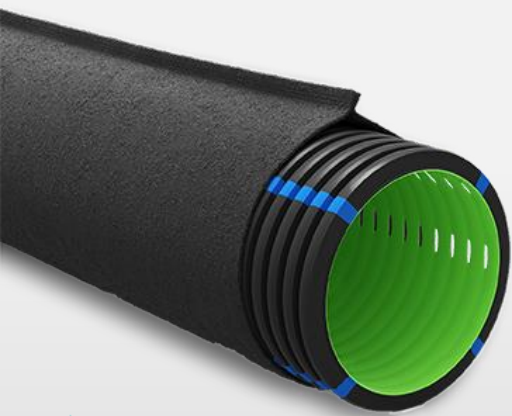
Welding of 3 different walls with the co-extrusion technology while using environmentally friendly raw materials

Use of specially developed geotextile **online** during the production process

4.1

GEODRAIN PLUS PROPERTIES

OD63 – OD200



- Made by specially stabilized HDPE raw material
- SN4 | SN8 Ring Stiffness according to EN ISO 9969
- Symmetrically perforated according to DIN 4262 standard
- UV resistance up to 5 years
- Chemical resistance according to DIN ISO 10358
- Halogen-free & heavy metals free (RoHS)

220°

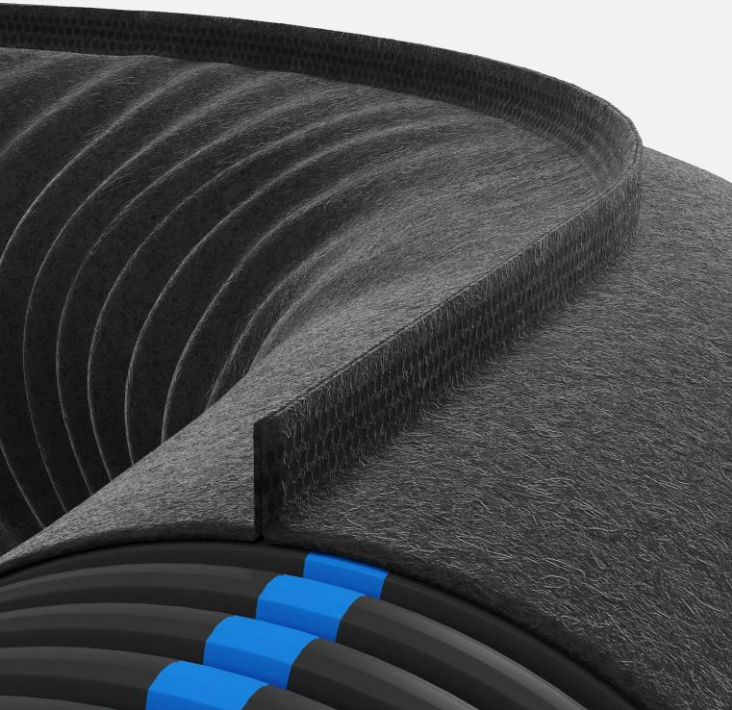
6m bars – local perforation 220°

360°

Coils 50m/25m – total perforation 360°



4.1

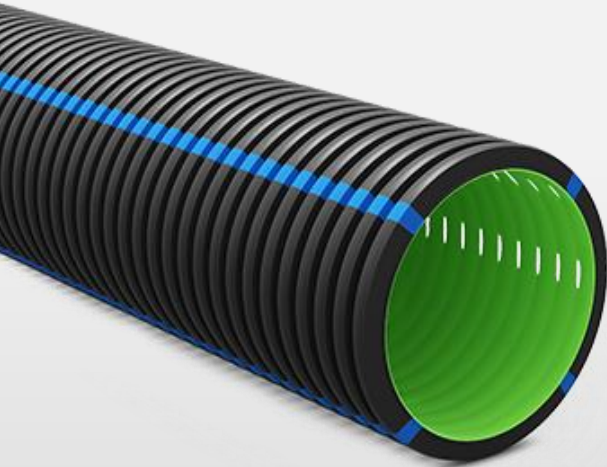
GEOTEXTILE
PROPERTIES

- **150gr/m²** special Geotextile needle-punched & non-woven
- Advanced **sealing technology** for stable and even distribution of the geotextile
PATENT PROTECTED (No. 1008995)
- Developed to meet the needs for the majority of soils
- UV Resistance up to **5 years**
- Accompanied by **Declaration of Performance** and bears the CE marking

4.1

GEODRAIN
PROPERTIES

OD63 – OD200

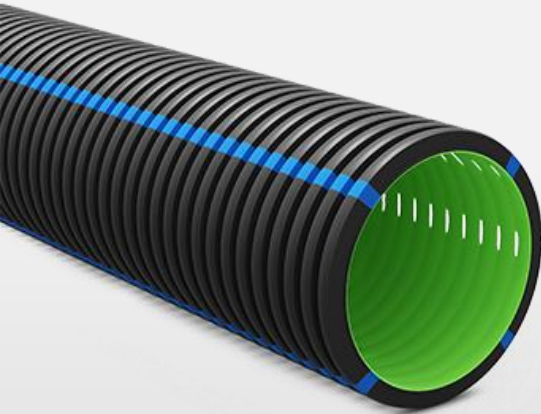


- Available also without the Geotextile
- There are some rare types of soil where the filter zones need to differ:
Soils with no coherence such as yellow calcareous mud **or dispersed clays. Those soils are “internally unstable”** and contain particles that may easily pass through the filter zones from gravel and geotextile.

4.1

GEODRAIN PROPERTIES

OD63 – OD200



220°

6m bars – local perforation 220°



360°

Coils 50m/25m – total perforation 360°

- SN4 | SN8 Ring Stiffness according to EN ISO 9969
- Perforation of 220°/360° perforation carried out by advanced machinery along its entire length
- It has corrosion resistance
- Exceptional resistance to solar radiation thanks to the aging stabilizers incorporated in the raw material of its outer wall
- Its engraved marking is a guide for the right laying of pipes on the trench
- Its much lower weight facilitates its loading, transport and storage

4.1

ACCESSORIES & INSTALLATION MATERIALS

End Caps



Connection Coupler
with hooks



Adhesive & Sealant



KEEP IN MIND

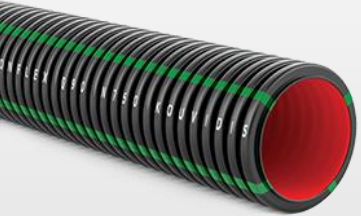


4.2

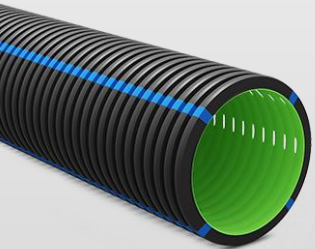
UNDERGROUND COLOR MARKING (NF P 98-332)



Red – Power Cables



Green - Telecommunication

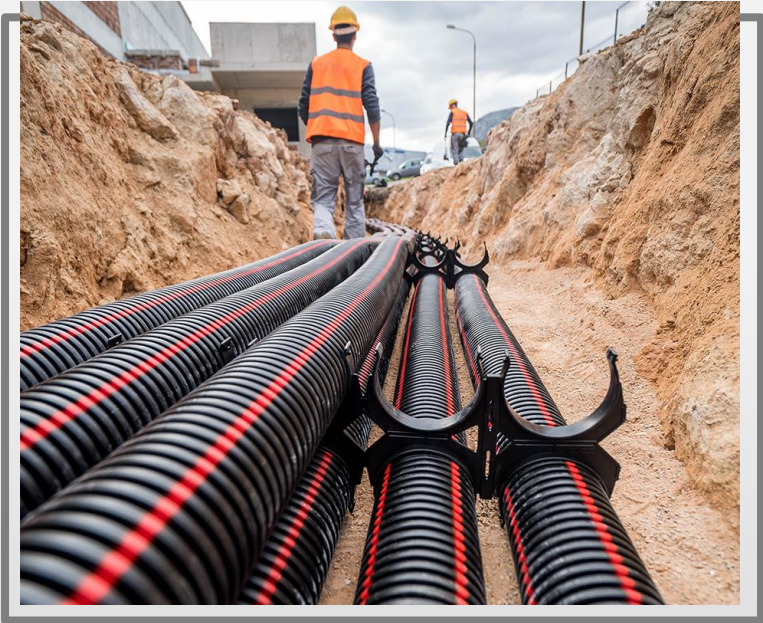


Blue - Water

Indelible color marking follows the NF P 98-332 standard for better identification **of the conduits' purpose** and contents, increasing safety

COLOR MARKING PURPOSE

4.2



INCREASE SAFETY

At a construction or reconstruction of any given structure, employees on the construction site can easily identify what is inside the conduits by facing the exterior color marking.

Double wall HDPE conduits

Waste water sewage and stormwater drainage solutions



4.3

SEWAGE SYSTEMS MATERIALS EVOLUTION



CLAY – ANCIENT TIMES



CEMENT - 1900



PVC - 1930



HDPE - TODAY

4.3

GEOSAN
PROPERTIES

OD160 – OD630



- Made of High-Density Polypropylene (HDPE)
- Certified according to EN 13476-3 by Bureau Veritas
- SN 4 | SN 8 Ring Stiffness according to EN ISO 9969
- Ring flexibility RF30 according to EN ISO 13968
- Exceptional impact strength according to EN 744 (TIR ≤ 10%)

BUREAU
VERITAS

4.3

GEOSAN
PROPERTIES

OD160 – OD630



- Exceptional resistance to solar radiation thanks to the aging stabilizers incorporated in the raw material of its outer wall
- Excellent abrasion behavior thus preventing the depositing of dirty materials (fat, salts, etc.) in their smooth internal wall
- Its much lower weight facilitates its loading, transport and storage
- The special sealing elastomeric rings, in combination with the geometry of the external wall of GEOSAN pipes, fulfill EN 1277 by ensuring permanent leak-tightness



4.3

GEOSAN CONNECTION METHODS



With the use of an integrated molded socket



With the use of a separate coupler

4.3

GEOSAN ACCESORIES



CONNECTION
COUPLER



REPAIR COUPLER



BRANCH 45⁰



LATERAL CONNECTOR
(SADDLE)



BENDS 45⁰



BENDS 90⁰



BRANCH 45⁰



TEE BRANCH 90⁰

4.3

GEOSAN ACCESORIES



MALE END CAPS



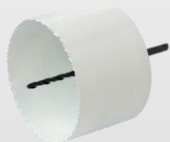
FEMALE END CAPS



ELASTOMERIC SEALING
RING



ELASTOMERIC SEALING
RING FOR FEMALE END



DRILLING CROWN



ADHESIVE & SEALANT



LUBRICANT

INSTALLATION COMPONENTS

CONNECTION LUBRICANT



NECESSARY FOR THE SAFE AND FAST CONNECTION OF PLASTIC CONDUITS WITH ELASTOMERIC SEALING RINGS ACCESSORIES IN SEWAGE OR DRAINAGE.



- Water Resistance
- In paste form
- When used in the right quantities just before installation, it does not alter the shape of the elastomeric sealing ring, protecting from potential leakage.

4.3

GEOSAN CONDUITS ADVANTAGES



- They are **50% lighter** than the conduits made from PVC while they are weighting only 5% of the cement conduits
- They succeed a **40% material cost reduction** compared to PVC or Cement
- They can **last longer** due to their flexibility and their ability to return to their initial form
- They are **100% environmentally friendly** as they are **Halogen Free, fully recyclable** with a very low environmental footprint

FOLLOW US



A detailed view of the interior of a paper shredder, showing a long, central shaft with a red stripe, surrounded by multiple rows of shredding rollers and metal components. The lighting is dramatic, highlighting the mechanical details.

FOREVER SAFE