

Advanced plastic piping systems

EN

2024

Cable protection

Our plastic piping systems
incorporate advanced innovations...



...and comply with the
highest safety standards

Drainage systems



 **KOUVIDIS**
The image shows two workers in red shirts and dark pants installing white flexible conduits in a concrete room. One worker is on a ladder, and the other is on the ground. Bundles of conduits are stacked on the left, and some are lying on the floor. The text 'KOUVIDIS' is visible on the workers' shirts and the conduit packaging.

**Committed
to keep you
in the lead**

WE ARE A PASSIONATE, SECOND-GENERATION, FAMILY-OWNED ENTERPRISE, THE LARGEST PLASTIC PIPE MANUFACTURER IN GREECE, SPECIALIZED IN THE DEVELOPMENT AND PRODUCTION OF INNOVATIVE PLASTIC PIPING SYSTEMS FOR CABLE MANAGEMENT AND PROTECTION, DRAINAGE AND SEWAGE.

Our business philosophy is to ensure:

safety to the installers

confidence to the engineers

trust to our partners and

respect to our employees and our society



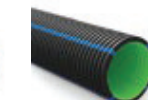
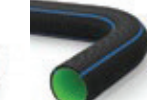
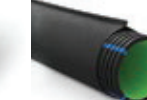
discover
our 45 years
know how...



*KOUVIDIS & KLS KOUVIDIS LOGISTICS SERVICES

CABLE PROTECTION

DRAINAGE SYSTEMS

	Heavy type				Medium type										Light type				Underground network									
	CONDUR®	CONFLEX®	CONDUR® HF	CONFLEX® HF	DUROSOL® PLUS	DUROFLEX® PLUS	MEDISOL® PLUS	MEDIFLEX® PLUS	MEDISOL® HF	MEDIFLEX® HF	MEDISOL® AM	MEDIFLEX® AM	MEDISOL®	MEDIFLEX®	SILCOR® PLUS	SIFLEX® PLUS	SILCOR®	SIFLEX®	GEONFLEX®	GEONFLEX® bar	GEOSUB®	GEOSUB® bar	GEODRAIN® bar	GEODRAIN®	GEODRAIN® PLUS bar	GEODRAIN® PLUS	GEOSAN® (acc. to EN 13476-3)	HYDROFLEX®
CLASSIFICATION	44411	44412	44441	44442	33431	33332	33431	33332	34441	34442	33411	33412	33411	33412	23431	23332	23411	22412	N750	N750	N450	N450	SN4/SN8	SN4	SN4/SN8	SN4	SN4/SN8	-
																												
Halogen free	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low smoke	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	✓
Low acidity	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Antimicrobial	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anti - electromagnetic	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Low friction	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	✓	✓	-	-	✓	✓	-	-	-	-	-	-	-	-
UV Stability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anti-Rodent	✓	✓	✓	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-
Color marking	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-
Material	U-PVC	U-PVC	PC Blend	PC Blend	PO Blend	PO Blend	PO Blend	PO Blend	PC Blend	PC Blend	U-PVC	U-PVC	U-PVC	U-PVC	PO Blend	PO Blend	U-PVC	U-PVC	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE
Compression strength	>1250Nt	>1250Nt	>1250Nt	>1250Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>750Nt	>320Nt	>320Nt	>320Nt	>320Nt	Type 750	Type 750	Type 450	Type 450	SN4/SN8	SN4	SN4/SN8	SN4	SN4/SN8.RF30	>160Nt
Impact strength	6J	6J	6J	6J	2J	2J	2J	2J	6J	6J	2J	2J	2J	2J	2J	2J	2J	1J	Normal	Normal	Normal	Normal	-	-	-	-	TIR≤10%	2J
Minimum temperature (°C)	-25	-25	-25	-25	-25	-15	-25	-15	-25	-25	-25	-25	-25	-25	-25	-15	-25	-25	-5	-5	-5	-5	-5	-5	-5	-5	-5	-25
Max temperature (°C)	60	60	120	120	105	105	105	105	120	120	60	60	60	60	105	105	60	60	90	90	90	90	90	90	90	90	105	105
Resistance to flame propagation	Non flame propagating				Non flame propagating										Non flame propagating				Flame propagating				Not declared					
Ingress Protection	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	min IP65	IP44/IP68*	IP44/IP68*	IP40/IP68*	IP40/IP68*	-	-	-	-	No leakage	min IP65
Resistance to bending	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Pliable	Rigid	Pliable	Rigid	Rigid	Pliable	Rigid	Pliable	Pliable	Pliable
Diameters	Ø16-Ø63	Ø16-Ø63	Ø16-Ø40	Ø16-Ø40	Ø16-Ø32	Ø16-Ø32	Ø16-Ø32	Ø16-Ø32	Ø16-Ø40	Ø16-Ø40	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø32	Ø16-Ø32	Ø16-Ø32	Ø16-Ø40	Ø32-Ø200	Ø75-Ø250	Ø32-Ø200	Ø75-Ø250	ØD110-ØD200	ØD63-ØD200	ØD110-ØD200	ØD63-ØD200	ØD160-ØD630	Ø23-Ø29
Certifications	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE	CE	CE	CE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	CE-VDE	BUREAU VERITAS	VDE
Exposed	◦	◦	•	•	•	•	•	•	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	-						
Concealed (dry walls)	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	•	•	◦	◦	-	-	-	-						
Concealed (underplaster)	◦	◦	-	-	◦	◦	◦	◦	-	-	◦	◦	◦	◦	•	•	◦	◦	-	-	-	-						
Concealed (floor,ceilings)	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	•	•	◦	◦	-	-	-	-						
Underfloor in screed	◦	◦	-	-	•	•	•	•	-	-	◦	◦	•	•	-	-	-	-	•	•	◦	◦						
Concrete	•	•	-	-	•	•	•	•	-	-	◦	◦	•	•	-	-	-	-	•	•	-	-						
Outdoor	•	•	◦	◦	•	•	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	-	-	-	-	-						
Buried underground	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	-	•	•	•	•						
Wood	•	•	◦	◦	•	•	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	-						
Discharge stormwater																							-	-	-	-	•	-
Wastewater disposal																							-	-	-	-	•	-
Agricultural drainage																							◦	◦	•	•	-	-
Building drainage																							◦	◦	•	•	-	-
Drain Roads/fields																							◦	◦	•	•	-	-
Protection of water pipes																							-	-	-	-	-	•

TECHNOLOGIES EXPLANATION

Halogen free conduits acc. to EN 50642
Low smoke density of conduits burning acc. to EN 61034-2
Low acidity of gas content during combustion acc. to EN 60754-2
Antimicrobial protection on plastics acc. to ISO 22196
UV stability after testing in real and artificial (acc. to EN ISO 4892-2) weathering conditions
Anti-electromagnetic technology which absorbs part of the electromagnetic radiation emitted by the cables
Low friction in the internal layer of the conduit acc. to IEC/TR 62470
Anti-rodent technology which repels rodents (European Patent EP2698792)
Color marking with longitudinal stripes, of indelible color, for identification between power and telecommunication cables

SPECIFICATIONS EXPLANATION

CLASSIFICATION for cable protection conduit systems is according to EN 61386.01 and EN 61386.24 and for drainage piping systems is according to EN ISO 9969
Materials are specially stabilized heavy metals free (RoHS) thermoplastics
Compression strength for cable protection conduit systems refers to resistance to compression (EN 61386.01) and for drainage piping systems refers to ring stiffness (EN ISO 9969) and ring flexibility (EN ISO 13968 for GEOSAN pipes)
Impact strength for cable protection conduit systems refers to resistance to impact (EN 61386.01) and for GEOSAN pipes refers to impact strength (EN 744)
Ingress protection for cable protection conduit systems refers to protection against solid objects and water (EN 60529) and for GEOSAN pipes refers to permanent leak tightness (EN 1277)
Diameters refer to pipe's outside diameters
*IP68 when the pipe is bonded to its coupler with the use of KOUVIDIS sealant

ADDITIONAL INFORMATION

All products are manufactured from special stabilized thermoplastic materials, heavy metals free acc. to RoHS (2011/65/E, 2015/863/EU) and Reach (EC /1907/2006 European Directives). All conduit systems for cable protection comply with the essential safety requirements of the EC Low Voltage European Directive 2014/35/EU.
KOUVIDIS is committed to sustainable development through the implementation of three MS acc. to ISO 9001, ISO 14001 and ISO 45001, the reduction of its emitted pollutants and waste packaging, the rational use of water and energy (RES) and the use of high quality materials with the lowest environmental footprint.
Contact our Technical Support department to learn more details about our products (+30 2810 831 500).

◦ Recommended - Not recommended • Best choice acc. to the manufacturer

The above Installation fields are only recommendations due to the technical specifications of KOUVIDIS products. National or local restrictions and prohibitions must always be considered.



★ The above mentioned light type conduit system is also available in yellow color RAL 1023 with longitudinal lines in red and green color to distinguish power and telecommunication cables respectively with the brand name SUPERSOL PLUS - SUPERFLEX PLUS.



OUR HEADQUARTERS Heraklion, Crete

With 45 years of successful presence, KOUVIDIS is one of the top manufacturers of plastic piping systems for cable protection, sewage, and drainage in Europe.

The trust that we have cultivated with our customers through all these years are the main source of inspiration for the development of new products and innovative solutions that secure high quality and safety to the installer.

We are delighted to have fulfilled a multi annual investment plan for the construction of our new Smart Factory and the installation of our state-of-the-art production lines adopting the values of the 4th industrial revolution. Thus, we now look into the future with confidence and we commit to keep creating value for our staff, our customers, and our partners, whilst to contribute to the development of our society.



EMM. KOUVIDIS SA
Manufacturer of plastic piping systems

VIO.PA Tylissos 715 00 Heraklion, Crete, Greece
T +30 2810 831500, F +30 2810 831502
E info@kouvidis.gr
www.kouvidis.com

