

Advanced plastic piping systems



2022



K KOUVIDIS



**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



In this regard we are constantly seeking for new innovations, exploring modern plastics, and manufacturing the best sustainable solutions for our customers.

discover
our 40+ years
know how...

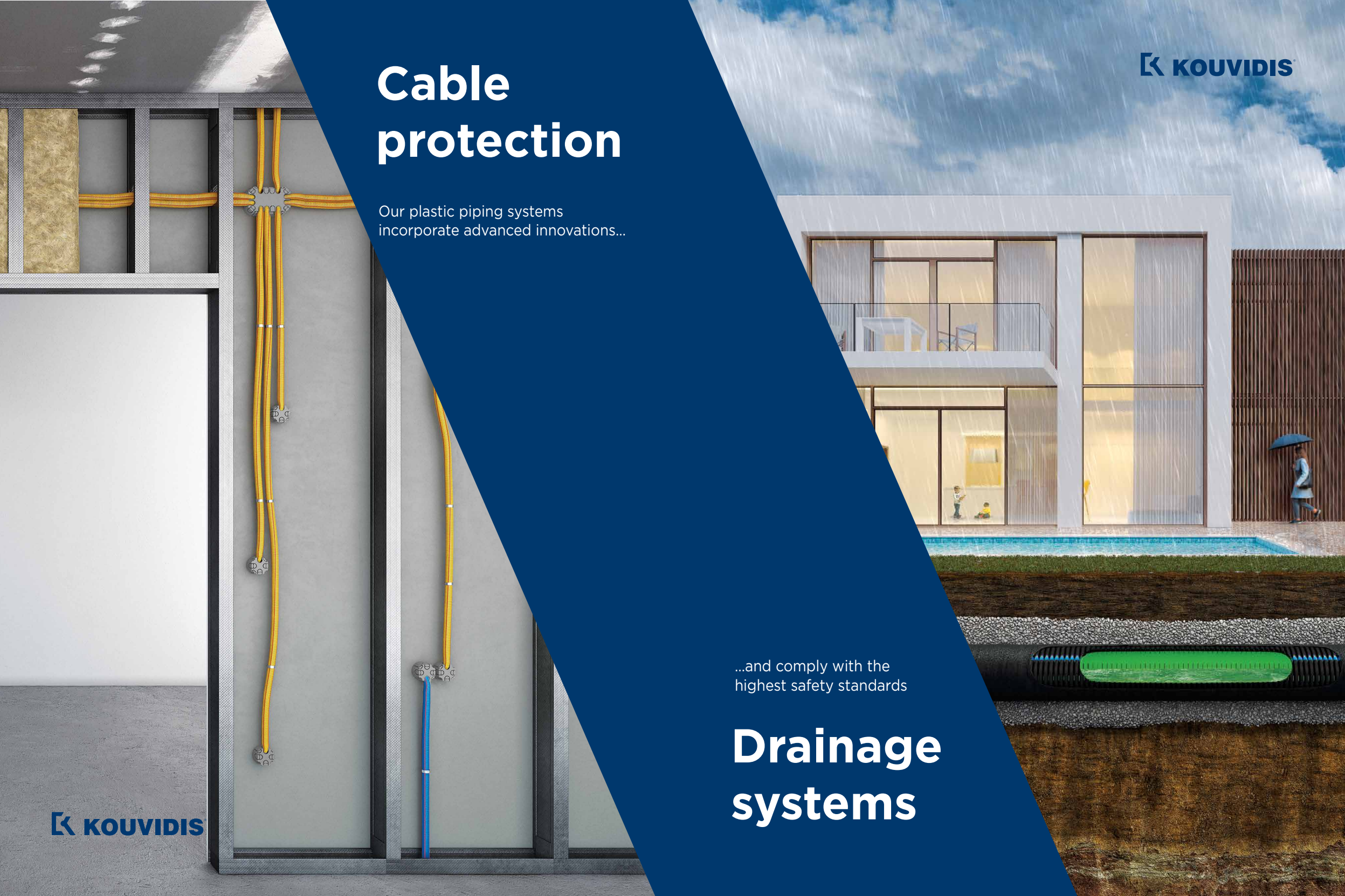


Cable protection

Our plastic piping systems
incorporate advanced innovations...

...and comply with the
highest safety standards

Drainage systems



Our plastic piping systems

PERFECTION is what drives our company
Discover how it is rendered on our products

	CABLE PROTECTION																DRAINAGE SYSTEMS									
	Heavy type				Medium type							Light type														
	CONDUR®	CONFLEX®	CONDUR® HF	CONFLEX® HF	MEDISOL®	MEDIFLEX®	<small>Available early 2023</small> MEDISOL® PLUS	MEDIFLEX® PLUS	MEDISOL® AM	MEDIFLEX® AM	DUROFLEX® PLUS	<small>Available early 2023</small> SUPERSOL® PLUS	SUPERFLEX® PLUS	SILCOR®	SIFLEX®	GEONFLEX® bar	GEONFLEX®	GEOSUB® bar	GEOSUB®	GEODRAIN® bar	GEODRAIN®	GEODRAIN® PLUS bar	GEODRAIN® PLUS	GEOSAN® <small>(acc. to EN 13476-3)</small>	HYDROFLEX®	
CLASSIFICATION	44411	44412	44441	44442	33411	33412	33331	33332	33411	33412	33332	23331	23332	23411	22412	N750	N750	L450	L450	SN4/SN8	SN 4	SN4/SN8	SN 4	SN4/SN8	-	
TECHNOLOGY																										
Halogen free	–	–	•	•	–	–	•	•	–	–	•	•	•	–	–	•	•	•	•	•	•	•	•	•	•	
Low smoke	–	–	–	–	–	–	•	•	–	–	•	•	•	–	–	–	–	–	–	–	–	–	–	–	•	
Low acidity	–	–	–	–	–	–	•	•	–	–	•	•	•	–	–	–	–	–	–	–	–	–	–	–	–	
Antimicrobial	–	–	–	–	–	–	–	–	•	•	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Anti - electromagnetic	–	–	–	–	–	–	•	•	–	–	–	•	•	–	–	–	–	–	–	–	–	–	–	–	–	
Low friction	–	–	–	–	–	–	•	•	–	–	•	•	•	–	–	•	•	–	–	–	–	–	–	–	–	
UV Stability	•	•	•	•	•	•	•	•	–	–	•	–	–	–	–	•	•	•	•	•	•	•	•	•	–	
Anti-rodent	•	•	•	•	–	–	•	•	•	•	•	•	•	–	–	•	•	–	–	–	–	–	–	–	–	
Multiple layers	–	–	–	–	–	–	2	2	–	–	3	3	3	–	–	3	3	3	3	3	3	4	4	2	–	
SPECIFICATIONS																										
Material	U-PVC	U-PVC	PC	PC	U-PVC	U-PVC	PP	PP	U-PVC	U-PVC	PP	PP	PP	U-PVC	U-PVC	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	
Mechanical strength	>1250Nt	>1250Nt	>1250Nt	>1250Nt	>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	2J	2J	2J	2J	2J	2J	1J	Normal	Normal	Light	Light	–	–	–	–	TIR≤10%	2J	
Minimum temperature	-25°C	-25°C	-45°C	-45°C	-25°C	-25°C	-15°C	-15°C	-25°C	-25°C	-15°C	-15°C	-15°C	-25°C	-25°C	-5°C	-5°C	-5°C	-5°C	-5°C	-5°C	-5°C	-5°C	-5°C	-25°C	
Maximum temperature	60°C	60°C	120°C	120°C	60°C	60°C	105°C	105°C	60°C	60°C	105°C	105°C	105°C	60°C	60°C	90°C	90°C	90°C	90°C	90°C	90°C	90°C	90°C	90°C	105°C	
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	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	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	Rigid	Pliable	
Dimensions	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø63	Ø16-Ø32	Ø16-Ø32	Ø16-Ø63	Ø16-Ø63	Ø20-Ø32	Ø16-Ø32	Ø16-Ø32	Ø16-Ø63	Ø16-Ø63	Ø75-Ø250	Ø32-Ø200	Ø75-Ø250	Ø32-Ø200	OD110-OD200	OD63-OD200	OD110-OD200	OD63-OD200	OD160-OD630	Ø23-Ø29	
Certifications	CE/VDE	CE/VDE	CE/VDE	CE/VDE	CE/VDE	CE/VDE		CE/VDE*	CE/BIOCOTE	CE/BIOCOTE	CE/VDE		CE/VDE	CE/VDE	CE/VDE	CE/VDE	CE/VDE	CE/VDE	CE/VDE					BUREAU VERITAS	VDE	
INSTALLATION																										
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																										

TECHNOLOGY 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 for at least 5 years
Anti-electromagnetic technology which absorbs a part of the electromagnetic radiation emitted by the cables
Low friction in the internal layer of conduit acc. to IEC/TR 62470
Anti-rodent technology repels rodents (European Patent EP2698792)
Multi layers facilitate installation due to their multiple benefits and guarantee an improved environmental footprint
Two layers (2): internal and external layers. Three layers (3): internal/external layers and a layer of longitudinal lines. Four layers (4): internal/external layers, a layer of longitudinal lines and a layer of geotextile

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
Mechanical 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
* VDE Certificate pending
** IP68 when 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. From Monday to Friday 8 am to 4 pm Eastern Time at +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.



OUR HEADQUARTERS, 2022
Heraklion, Crete

KOUVIDIS was founded in 1979 when Emmanuel Kouvidis, an electrician-installer, decided to quit his job and set up a business of his own in order to produce high quality conduits which would not break and which would ensure the safety of electricians- installers.

His vision came true and KOUVIDIS evolved to one of the largest Greek plastic pipe manufacturers characterized by continuous development and innovation.

Keeping its people at the heart of all its actions and aiming to the sustainable development and the cycling economy, KOUVIDIS will continue to provide value added products and services and to constantly improve the installer's work.



ISO 9001



ISO 14001



ISO 45001



KOUVIDIS®

EMM. KOUVIDIS SA
Manufacturer of plastic piping systems

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

