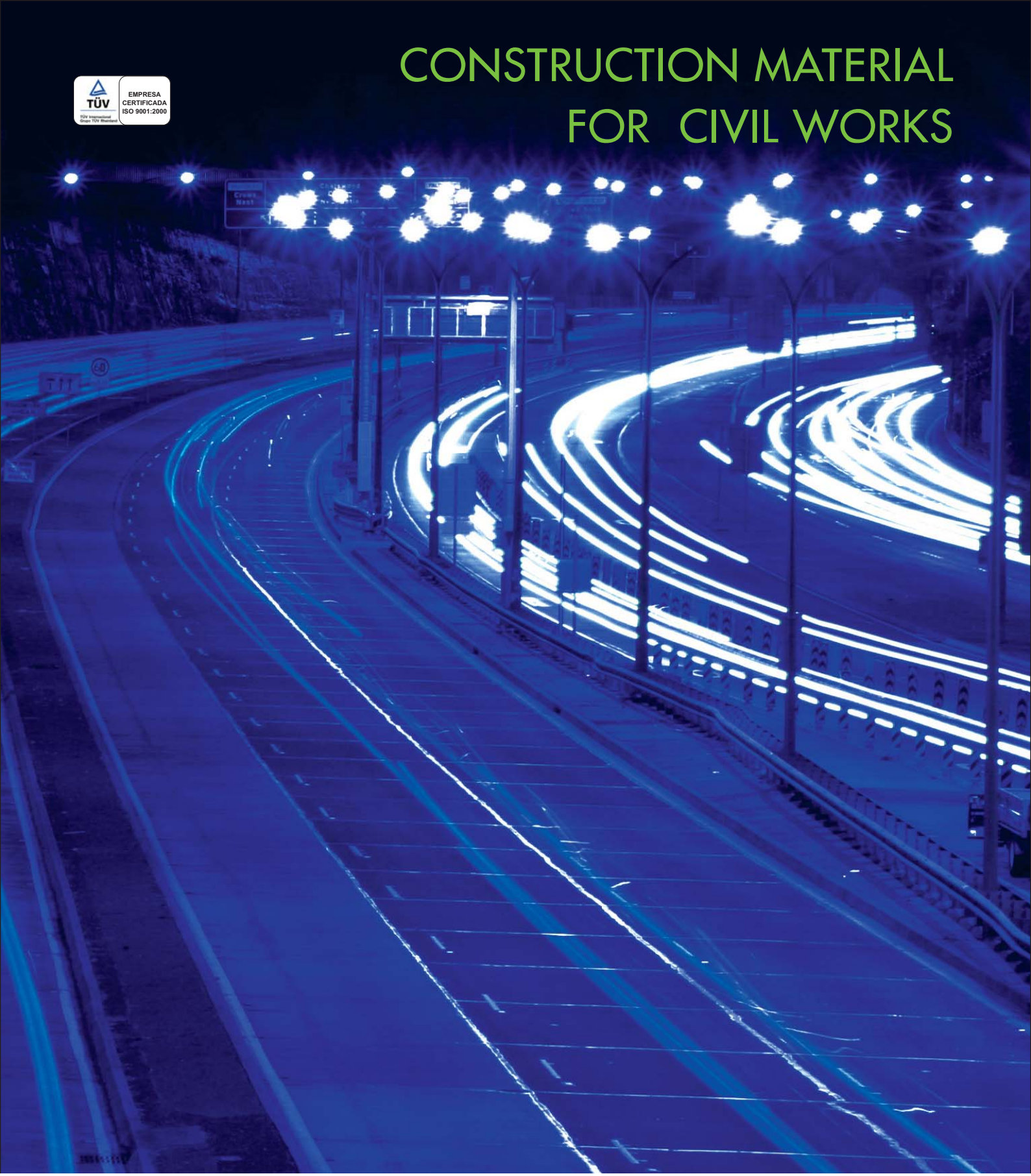
EMPRESA CERTIFICADA ISO 9001:2000

CONSTRUCTION MATERIAL FOR CIVIL WORKS



HIDROSTANK

HIDROSTANK was founded in 1996 as a result of a determination to offer innovative solutions to improve the performance of Civil Works as well as attempting to optimise the management of Sewage networks.

During this time HIDROSTANK has been cooperating closely with the administration, engineers, construction groups, etc. who have placed their trust in our products for their various projects:

Infrastructures:
motorways, roads, airports

Housing estates

Industrial estates

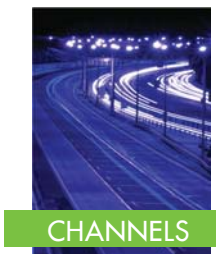
With various applications:

Electric installations and telecommunications

Hydraulic networks:
purification, rainwater

Gas pipelines

HIDROSTANK continues their drive for Innovation, and the incorporation of systems and products that adequately resolve the standard problems of channelling and purification, with two differentiated lines of business:



CHANNELS

HYDRAULICS

TECHNICAL SPECIFICATIONS

The **HIDROSTANK modular dismountable access chamber** arose from the interest in developing a solution that combines the resistance of traditional access chamber (concrete, brickwork, etc.) and the **easy handling, versatility and quality finish** of plastic products.

After extensive studies performed in collaboration with the Department of Plastic Materials at the University of Zaragoza, the **reinforced polypropylene self-resistant HIDROSTANK** was developed.

The HIDROSTANK access chamber has become an effective alternative for all applications:

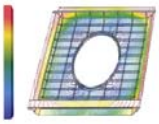
- Electrical and telecommunications channels
- Hydraulic channels (gutter, sewage, water supply, etc.)
- Gas channels, etc.

HIDROSTANK MODULAR DISMOUNTABLE ACCESS CHAMBER:

SELF-RESISTANT

Up to 60x60 cm., laboratory-tested

INNOVATION



An innovative product (world patent: PCT ES/97/00174)

VERSATILE

Possibility of overlapping, in situ hook-ups, custom finishes: curved perpendicular joints, siphons, profiles, etc.

QUALITY FINISH

All materials used are guaranteed, 0% halogens, better corrosion resistance.

EASY INSTALLATION

Easy, fast and safe to install: manual handling, no machinery.

ENVIRONMENTAL

Material 100% recyclable.

INSTALLATION:

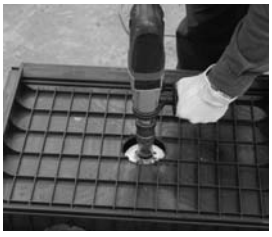
1.- Placement of the access chamber on a compact or concrete slab base; possibility of increasing the size of the access chamber withy additional modules.

2.- Factory-made or on-site hook-up with perforating crowns for diameters up to 210 mm.

3.- Watertight: possible use of sealing joints for the pipe-access chamber joint.

4.- Fill in with layers of earth and compact with pressure-percussion tool.

5.- Position frame and cover, finish with concrete or mortar.


THE EFFECTIVE ALTERNATIVE

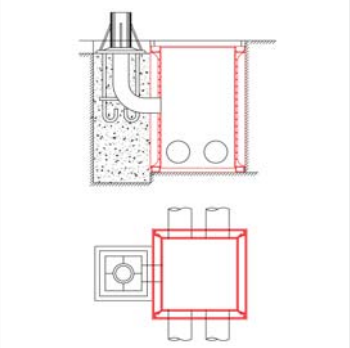




ACCESS CHAMBERS FOR ELECTRICAL CHANNELS

For the following networks:

- Public street lights
- Low/Medium/High Voltage

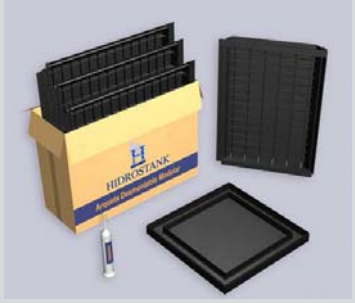


"HIDROSTANK reinforced polypropylene access chamber for electrical channels, with or without bottom, with internal dimensions ..., including cast iron/plastic/concrete frame and cover.".

REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
A 35x35 / B 35x35	35x35	45x45	40 - 60 - 80 - 100 - 120	40x40
A 45x45 / B 45x45	45x45	55x55	40 - 60 - 80 - 100 - 120	50x50
A 58x58 / B 58x58	58x58	68x68	40 - 60 - 80 - 100 - 120	60x60
A 68x68 / B 68x68	68x68	78x78	40 - 60 - 80 - 100 - 120	70x70

ARQPAQ

Self-resistant access chamber, packaged individually, specially designed for Distributors and Wholesalers.

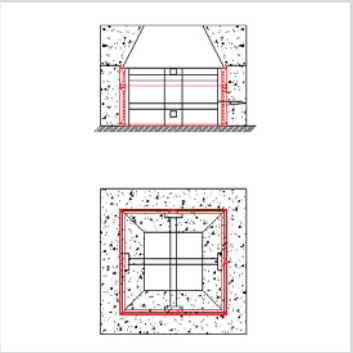


Easy assembling:

ACCESS CHAMBERS FOR ELECTRICAL CHANNELS

For the following networks:

- Public street lights
- Low/Medium/High Voltage



"HIDROSTANK reinforced polypropylene access chamber for electrical channels, with or without bottom, with internal dimensions ..., including cast iron/plastic/concrete frame and cover".

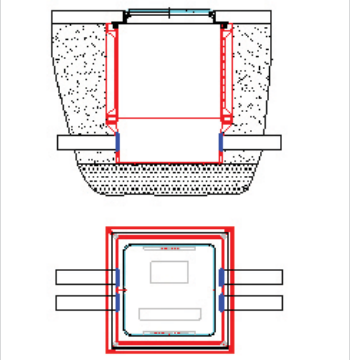
IBERDROLA endesa unelco endesa sevillana endesa Zaragoza

Certified by major power suppliers and Town Halls.

REF	DESCRIPTION	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
A 45x45	UNELCO A1	45x45	55x55	60	50x50
A 68x45	UNELCO A2	68x45	78x55	60 - 80 - 100	70x50
A 90x68	UNELCO A3	90x68	100x78	60 - 80 -100 - 120	95x70
A 90x80	SEVILLANA A1	90x80 CONO 75x65	100x90	80	
A 145x90	SEVILLANA A2	145x90 CONO 126x73	155x100	100	
A 100x100	IBERDROLA	100x100 CONO 60x60	110x110	100	
AZ 35x35	A.P. AYTO ZARAGOZA	35x35	45x45	80	40x40
AZ 58x58	A.P. AYTO ZARAGOZA	58x58	68x68	80	60x60

ACCESS CHAMBERS FOR TELECOMMUNICATIONS

For the following networks:
- Telephone / Fibre optics
- SOS



"HIDROSTANK reinforced polypropylene access chamber for telecommunication channels, with or without bottom, with internal dimensions ..., including cast iron/plastic/concrete frame and cover".

* Certified by: Telefónica

REF	DESCRIPTION	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
BO - 600 *	TELEFONICA TYPE M	45x45	55x55	60	60x60
F-80x70	TELEFONICA TYPE H	80x70	90x80	80	93x86
F-100x90	TELEFONICA TYPE D	100x90	110x100	100	120x95

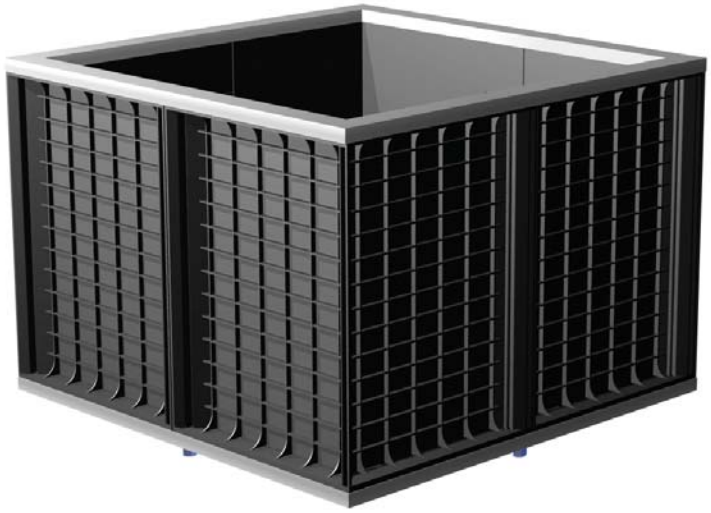
SOS ACCESS CHAMBERS

"HIDROSTANK reinforced polypropylene access chamber for SOS channels, with or without bottom, with internal dimensions ..., including cast iron /concrete frame and cover:"

- Straight through or coupled
- Derivation or alongside SOS posts

REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
A-58x58	58x58	68x68	60 - 80 - 100 - 120	60x60
A-126x58	126x58	136x68	60 - 80 - 100 - 120	136x60

CUSTOM SOLUTION



REINFORCED ACCESS CHAMBERS

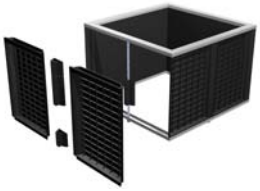
For the following networks: Electrical (Low/Medium/High Voltage), Telecommunications (Telephone / Fibre Optics / SOS) and Water Supply.

"HIDROSTANK reinforced polypropylene access chamber for ... channels, with or without bottom, with internal dimensions ..., including cast iron/ductile/plastic/concrete frame and cover".

Specifications:

- Self-resistant
- Versatile: custom finish, possibility of on-site hook-up…
- Easy and quick installation: manual handling, no machinery…
- Quality finish: smooth, no chipping or roughness, custom hook-ups...

REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
A-80x80	80x80	90x90	60 - 80 - 100 - 120	90x90
A-90x90	90x90	100x100	60 - 80 - 100 - 120	100x100
A-100x100	100x100	110x110	60 - 80 - 100 - 120	110x110
A-126x126	126x126	136x136	60 - 80 - 100 - 120	136x136
A-126x80	126x80	136x90	60 - 80 - 100 - 120	136x90
A-126x90	126x90	136x100	60 - 80 - 100 - 120	136x100
A-126x100	126x100	136x100	60 - 80 - 100 - 120	136x90



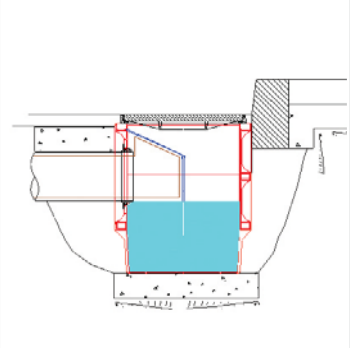
Including:

- Self-resistant side walls
- Joints
- Galvanized steel (UPN 60) frame
- Galvanized steel threads (16 mm thickness)

ACCESS CHAMBERS FOR HYDRAULIC CHANNELS

GUTTERS

For rainwater drainage networks.



"HIDROSTANK reinforced polypropylene Gutter /Drain Point, with internal dimensions ..., cast iron ductile frame and grate".

- Siphon / non-siphon
- Custom hook-up
- Sealing Joints for pipe- access chamber connection

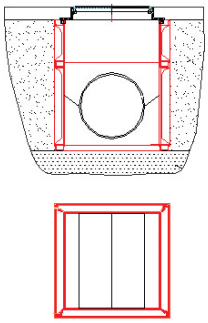
REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	GRATE (cm.)
C-35x35	35x35	45x45	40 - 60 - 80 - 100 - 120	40x40
C-45x45	45x45	55x55	40- 60 - 80 - 100 - 120	50x50
C-58x58	58x58	68x68	40 -60 - 80 - 100 - 120	60x60
I 40x20	40x20	50x30	50	46x23
I 70x30	70x30	80x40	60	75x30
F-45x35	45x35	55x45	60 - 80 - 100 - 120	50x30
F-58x35	58x35	58x35	60 - 80 - 100 - 120	60x30

ACCESS CHAMBERS FOR HYDRAULIC CHANNELS

REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
C-35x35	35x35	45x45	40 - 60 - 80 - 100 - 120	40x40
C-45x45	45x45	55x55	40 - 60 - 80 - 100 - 120	50x50
C-58x58	58x58	68x68	40 - 60 - 80 - 100 - 120	60x60

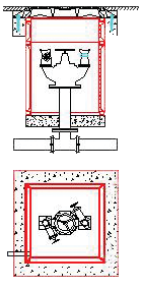
REF	INTERNAL DIMENSIONS L x W (cm.)	EXTERNAL DIMENSIONS L x W (cm.)	HEIGHT (cm.)	COVER (cm.)
A-35x35 B-35x35	35x35	45x45	40 - 60 - 80 - 100 - 120	40x40
A-45x45 B-45x45	45x45	55x55	40 - 60 - 80 - 100 - 120	50x50
A-58x58 B-58x58	58x58	68x68	40 -60 - 80 - 100 - 120	60x60

WASTEWATER



"HIDROSTANK reinforced polypropylene access chamber for sewage channels, watertight, with internal dimensions ..., cast iron / plastic/concrete frame and cover".

WATER SUPPLY



"HIDROSTANK reinforced polypropylene access chamber for water supply channels, with or without bottom, with internal dimensions ..., cast iron /plastic/concrete frame and cover".

CAST IRON COVERS AND GRATES

HIDROSTANK access chamber are designed to guarantee the correct installation of frames and covers/grates of standard cast iron. (Please refer to the section corresponding to Channel Box).

Installation:

Position the frame and cover/grate. Install with concrete or mortar 10 to 15 cm or more depending on the final pavement material (tile, stone, etc.) leaving the access chamber completely finished. The frame is positioned and finished in the conventional manner.

COVERS

REF	EXTERIOR FRAME L x W (cm.)	COVER DIMENSIONS L x W (cm.)	FREE SPACE L x W (cm.)
TMF040_00	40 x 40	38 x 38	35 x 35
TMF050_00	50 x 50	48 x 48	40 x 40
TMF060_00	60 x 60	58 x 58	50 x 50
TMF070_00	70 x 70	68 x 68	60 x 60
TMF080_00	80 x 80	78 x 78	70 x 70
TMF090_00	90 x 90	88 x 88	80 x 80
TFH	93 x 86	84 x 76	80 x 72
TFD	120 x 95	115 x 90	110 x 80

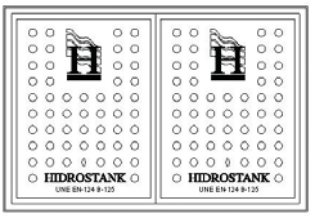
GRATES

REF	EXTERIOR FRAME L x W (cm.)	COVER DIMENSIONS L x W (cm.)	FREE SPACE L x W (cm.)
RMF840x340	84 x 34	75 x 24.5	72 x 27
RMF570x380	57 x 38	56 x 30	50 x 30
RMF430x430	43 x 43	40 x 40	35 x 35
RMF520x520	52 x 52	48 x 48	45 x 45
RMF620x620	62 x 62	60 x 60	55 x 55
RMF530x590	53 x 59	45.5x45.5	40 x 40
RMF720x420	72 x 42	60 x 37	55 x 32
RMF500x260	50 x 26	46 x 23	43 x 20

PLASTIC COVERS

Ultra high molecular weight polyethylene (UHMWPE), with the following specifications:

- High pressure resistance
- High impact resistance
- High resistance to chemically corrosive products
- Low friction coefficient.
- Resistance to abrasion.
- Extremely low moisture absorption
- Excellent electrical insulating capacity



REF	EXTERIOR FRAME L x W (cm.)	COVER DIMENSIONS L x W (cm.)	FREE SPACE L x W (cm.)
TMPPR 40 x 40	51 x 51	40 x 40	39 x 39
TMPPR 50 x 50	61 x 61	50 x 50	49 x 49
TMPPR 60 x 60	71 x 71	60 x 60	59 x 59
TMPPR 75 x 45	81 x 50	75 x 45	74 x 44
TMPPR 60	85	Ø 65	Ø 60
TMPPR 70	90	Ø 75	Ø 70
TMPPR 70 x 100	74 x 104	69 x 100	63 x 94
TMPPR 80 x 80	79 x 79	73 x 73	66 x 66
TMPPR 74 x 112	79 x 117	73 x 111	67 x 105
TMPPR 90 x 90	100 x 100	89 x 89	80 x 80
TMPPR 90 x 110	96 x 116	89 x 109	80 x 100
TMPPR 100 x 120	105 x 125	99 x 119	92 x 112
TMPPR 120 x 120	118 x 118	113 x 113	105 x 105
TMPPR 100 x 150	99 x 149	95 x 145	88 x 138
TMPPR 120 x 150	118 x 148	110 x 140	101 x 131
TMPPR 120 x 180	118 x 178	109 x 169	99 x 159
TMPPR 120 x 200	119 x 199	113 x 193	183 x 103

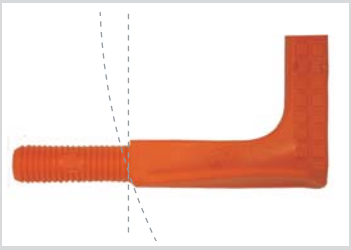
POLYPROPYLENE MANHOLE STEPS

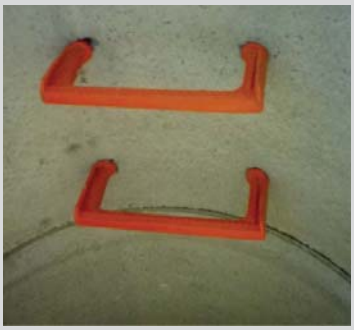
Manufactured with corrugated 12 mm AEH 500 steel rod, covered by virgin co-polymer polypropylene with high impact resistance to prevent breakage during installation.

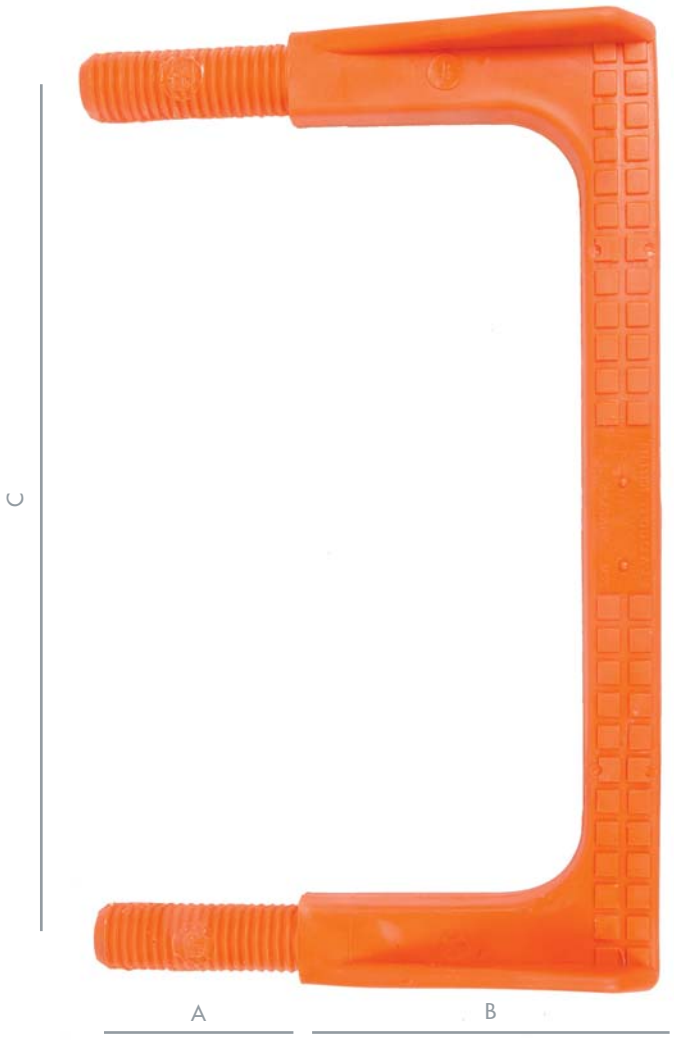
Totally resistant to abrasion and corrosion because the rod is covered by means of a system with an exhaustive quality control.

The manhole steps have anti-slip grooves and side stops to prevent from falling.

Valid to straight or curve walls.







Easy to install:

Once the concrete is dry, 2 drill-holes are lined up with a 25mm bit, depending on the separation and depth that is indicated. The Manhole step is placed in said holes, alternately tapping each end until the total depth is reached.

It is important to make precise drill-holes because if not, the Manhole step will require mortar or paste in order to anchor properly.

Tested in conformance with EN 13101:

- Vertical loading trial
- Resistance to pull-out trial
- Resistance to impact trial
- Integrity of plastic encapsulation trial

REF	MODEL	A	B	C
P001	STRAIGHT BARCELONA	100	120	330
P002	STANDARD	80	140	330
P003	STRAIGHT BILBAO	80	160	330
P004	CURVE 300mm.	80	160	300
P005	CURVE 330mm.	80	160	330

PLATAFORMA LOGÍSTICA PLA-ZA AUTOPISTA A1 TRAMO: EIBAR-VITORIA ESTADIO SANTIAGO BERNABEU (MADRID) AUTOVÍA MUDEJAR (A-23) URBANIZACIÓN COSTA ANÁCARA (LA CORUÑA) AUTOVÍA A-8 TRAMO: MUROS DE NALÓN –SOTO DEL BARCO URBANIZACIÓN PUERTO DEPORTIVO BADALONA AUTOVÍA A-64 TRAMO: FERROL - AS PONTES – VILLALBA URBANIZACIÓN SOLAGUA, CASAS&GOLF SEÑORÍO DE ILLESCAS (TOLEDO) CANARIAS. GC1 TERCER CARRIL URBANIZACIÓN MIRAMADRID PARACUELLOS AUTOVÍA DEL DUERO N-122. TRAMO: VARIANTE DE ÁGREDA (SORIA) CAMPO DE GOLF LA ZAGALETA (MARBELLA) PLAN BARAJAS, PISTA 15 Y 18. POLÍGONO INDUSTRIAL MONTALVO (SALAMANCA) RADIAL 4 (MADRID) URBANIZACIÓN LA JURADA SAN ISIDRO (GRANADILLA) TENERIFE "U.T.E. SOL AUTOVÍA DEL MEDITERRÁNEO TRAMO: MÁLAGA-MARBELLA-ESTEPONA VALDELUZ (GUADALAJARA) AUTOPISTA DEL MEDITERRÁNEO TRAMO: CARTAGENA-ALICANTE PLATAFORMA LOGÍSTICA DE TERUEL (PLATEA) AUTOPISTA (CORREDOR) DEL TXORIERRI (VIZCAYA) TRAMO: LARRABETZU-ERLETXE URBANIZACIÓN COSTA ESURI (AYAMONTE, HUELVA) AUTOPISTA (CORREDOR) DEL TXORIERRI VIZCAYA TRAMO: DERIO-LARRABETZU URBANIZACIÓN LAS MARGAS (SABIÑÁNIGO, HUESCA) VIA HISPANIDAD (ZARAGOZA) ECOCIUDAD VALDESPARTERA (ZARAGOZA) AUTOPISTA AP-41: MADRID-TOLEDO PTR, PARQUE TECNOLÓGICO DE RECICLADO (ZARAGOZA) SOTERRAMIENTO DE LA M-30 URBANIZACIÓN DEL SECTOR CIUDAD DEPORTIVA C.A. OSASUNA AUTOPISTA CV-35, VALENCIA

THANK YOU FOR YOUR TRUST
HIDROSTANK

AMPLIACIÓN POLÍGONO EL CAMPILLO (LOGROÑO) HUERTA FOTOVOLTAICA EL MILAGRO, NAVARRA PARQUE VAGUADA DE LAS LLAMAS, SANTANDER UTE ERROTA, CORREDOR DEL KADAGUA (VIZCAYA) PUERTO DEPORTIVO BADALONA AUTOVÍA A-64 TRAMO: FERROL - AS PONTES – VILLALBA URBANIZACIÓN SOLAGUA

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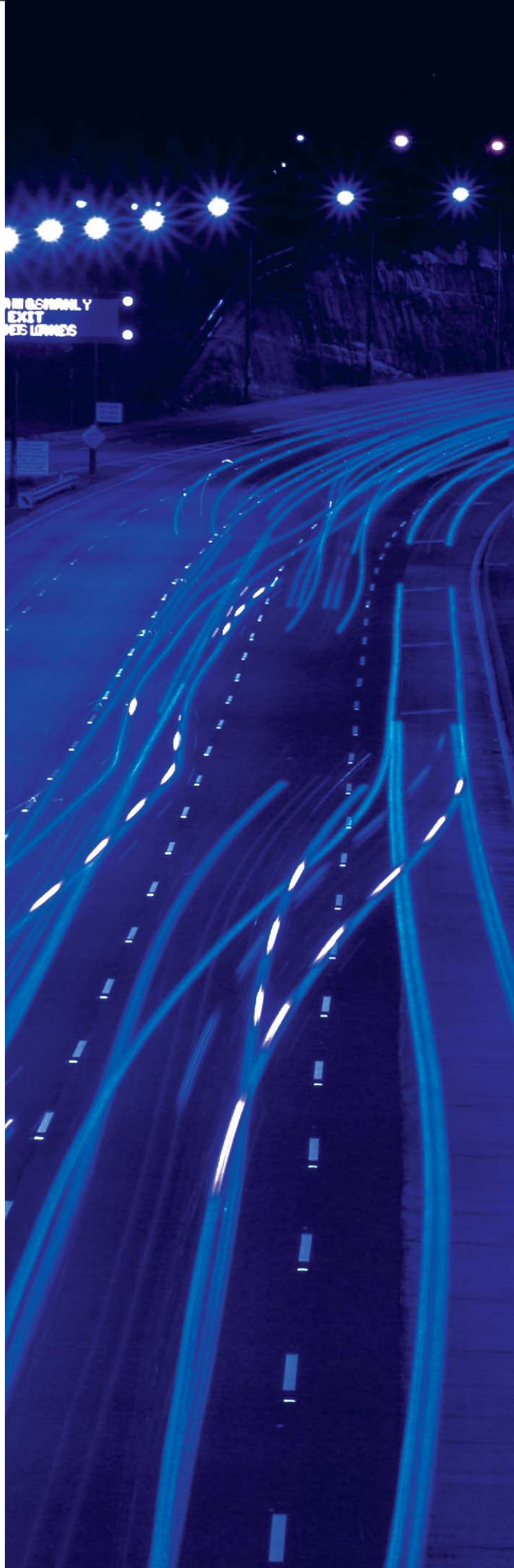

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