

# TECHNICAL MULTI-USE BOXES TECbox System



**HES**

THE ENCLOSURES COMPANY



## ■ HES Group, the enclosures company

Founded in 1972, using the technological and human resources of Hazemeyer Española. This ambitious project was born to serve the increasing demands in the emerging electrical sector.

The HES Group has currently over 12.000 references, spread over 11 product ranges. The products give the system and enclosures market a wide range of solutions.

## ■ Research and Development

Our entire range of products and systems are the result of constant innovation in R&D.

We can provide very competitive products in the market, which is becoming more and more demanding, thanks to our modern and automated production facilities and high quality standards.

## ■ Quality and Certification

One of the main objectives of the HES Group is to market products of the highest quality. Our products have therefore undergone the most demanding certification studies to validate this intention.

Our products undergo tests, which are designed to be as "real life" as possible before being put into production. Electrical, mechanical and other tests are made under extreme conditions such as very low and high temperatures. The products exceed the most stringent norms. Tests of our products are simultaneously made by national and international laboratories and the certifications are obtained from prestigious organizations from different countries endorse the products.

Products are systematically tested all along the production line, therefore guaranteeing the standard of quality.

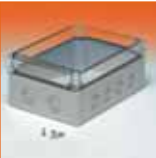


# THE ENCLOSURES COMPANY



#### **TECbox SYSTEM**

Six families of boxes made of six different materials, to give the best solution to every application or environment. The materials used are ABS, POLYCARBONATE, POLYESTER, STEEL, STAINLESS STEEL and ALUMINIUM. These series are complemented by a wide range of accessories.



**SPACE**

Save space by putting electronic plates on the side of the box without mounting it.



**DEPTH**

The depth of the box can be increased with the help of flanges or covers.

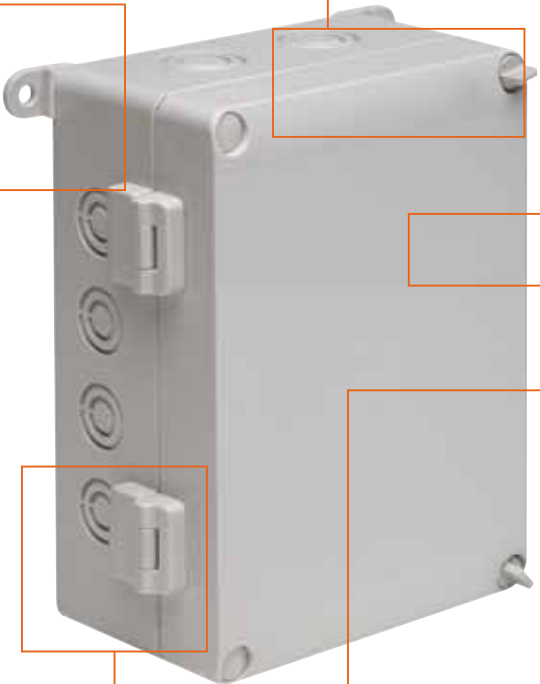


**HIDDEN OR NOT**

Choose between transparent cover made of Polycarbonate or opaque made of Polycarbonate or ABS.

**THE RANGE**

Six families of boxes made of six different materials, to give the best solution to every application or environment. The materials used are ABS, POLYCARBONATE, POLYESTER, STEEL, STAINLESS STEEL and ALUMINIUM. These series are complemented by a wide range of accessories.

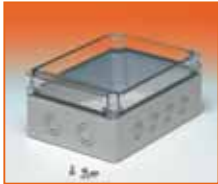


**BOX TO CABINET**

Can easily be converted to a cabinet with the help of hinges.

**PERSONALIZED**

Save mounting cost, using our pre-mechanization service. Also products in different colours.



**PUNCHED**

Standardized, the Tecbox series in Polycarbonate has a range of punched boxes.



# TECbox APPLICATIONS

## SERIE TECbox

- The application is used as a base for choosing a box in the Tecbox series. We have two key variables for this decision; size and material.
- Once the size is determined, it is very important to know the application and which environment this application is used. This has to be done to optimise costs and performance. Every environment and application has its Tecbox.
- There are different variables such as; IP, IK, UV resistance, resistance to temperature, fire, to different chemical materials and the personalization requirements.

## TECbox IS AVAILABLE IN THE FOLLOWING MATERIALS

- ABS Acryl-Butadiene-Styrene
- PC Polycarbonate
- PO Polyester
- AL Aluminium
- S Steel
- SS Stainless Steel



■ INDUSTRIAL PORTS  
 ■ TECBOX Stainless Steel to comply with the high requirements in the naval industry.

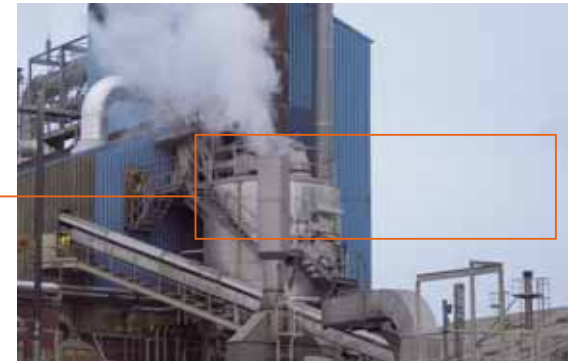
■ SAILING  
 ■ TECBOX applied to sailing resisting between humidity and saline environments.

■ PROFESSIONAL LIGHTING



■ PAPER INDUSTRY  
 ■ TECBOX used in the production processes in the paper industry. Aggressive environments, chlorine, temperature, humidity etc.

■ TECbox  
 ■ In the Underground.



■ FAIRS, SHOWS  
 ■ TECBOX applied in mobile installations, fairs, concerts, meetings, etc.



# TECbox TECHNICAL MULTI-USE BOXES

## TECbox TECHNICAL MULTI-USE BOXES

### GENERAL INFORMATION

- More than 200 different sizes.
- More than 400 different variants.
- 6 different types of material:

6 ways of personalizing / differentiating:

- |                 |            |
|-----------------|------------|
| ABS             | Holes      |
| Polycarbonate   | Printing   |
| Polyester       | Colours    |
| Aluminium       | Protection |
| Steel           | Painted    |
| Stainless Steel | Mounted    |

- Produced according to ISO 9001 and ISO 14001.
- All the boxes fulfil the norm for empty boxes (EN 50298; CENELEC 1999) IP55/66/67.

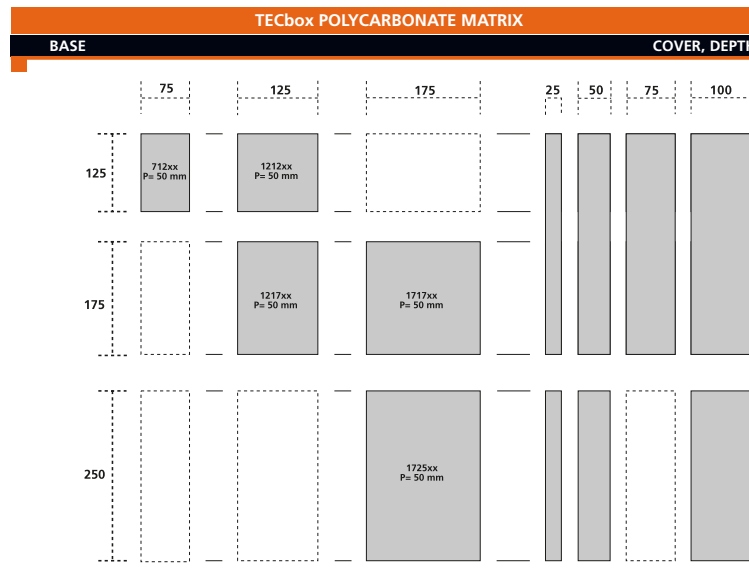
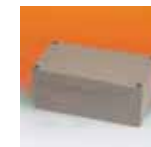
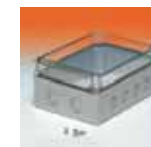
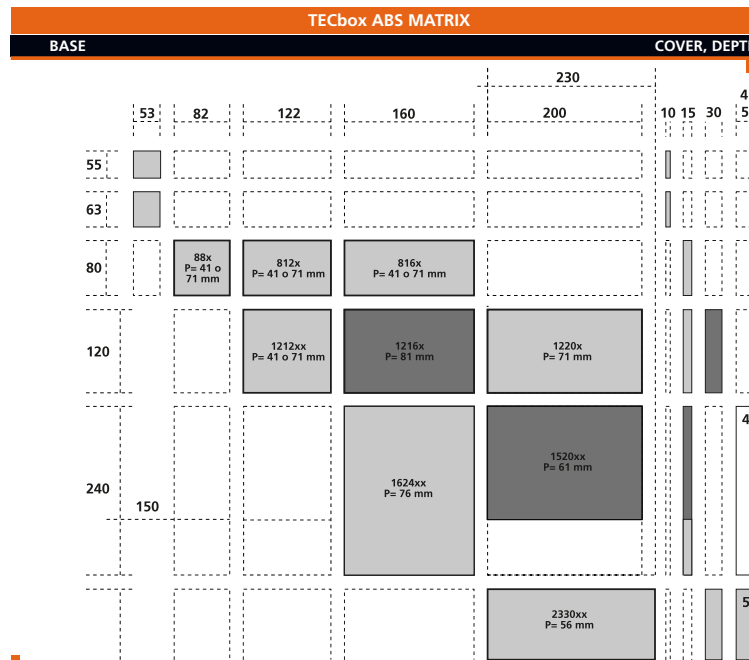


GENERAL	ABS	PC	PO	AL	S	SS
Resistance to fire	xx	xxxx	xxxx	xxxx	xxxxx	xxxxx
External use	x	xxxx	xxxxx	xxxx	x	xxxxx
Internal use	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	xxxxx
Price	xxxxx	xxx	xx	xx	xxx	x
Weight (light)	xxxxx	xxxxx	xxx	xx	x	x
Rigidity	x	xxx	xxxx	xxxxx	xxxxx	xxxxx
Impact	xxx	xxxxx	xxxx	xxxx	xxxxx	xxxxx
Colour/Engraving	xxxxx	xxxxx	xxxx	xx	xx	xx
Mechanization	xxxxx	xxxxx	xxxx	xxx	xx	x

CHEMICAL RESISTANCE	ABS	PC	PO	AL	S	SS
Salt water	xx	xxxxx	xxxxx	xxxx	xxx	xxxxx (AISI316)
Acids low concentration	xxxx	xxxxx	xxxxx	xx	xx	xxx
Acids high concentration	x	xxx	xxx	x	x	xx
Alkalis low concentration	xxxxx	xxx	xxxx	xx	xx	xxx
Alkalis high concentration	xxxx	x	xxxx	x	x	xx
Oil	x	xxx	xxxxx	xxxxx	x	xxxxx
Hydraulic oil	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	xxxxx
Alcohol	xxx	xxxx	xxxx	xxxxx	x	xxxxx
Solvents	x	x	xxxxx	xxxxx	x	xxx
Refrigeration liquids	xxxxx	xxx	xxxxx	xxx	x	xxxxx



**WHAT THE "X'S" MEAN**  
 x = very bad  
 xx = bad  
 xxx = normal  
 xxxx = good  
 xxxxx = excellent





MEASUREMENTS (mm)

53 x 55 x 36

53 x 63 x 36

80 x 82 x 56

80 x 82 x 86

80 x 120 x 56

80 x 120 x 86

80 x 160 x 56

80 x 160 x 86

120 x 122 x 56



- ABS box with opaque ABS cover.
- Plain walls.

TboxA553G

TboxA563G

TboxA885G

TboxA888G

TboxA8125G

TboxA8128G

TboxA8165G

TboxA8168G

TboxA12125G



- ABS box with transparent polycarbonate cover.
- Plain walls.

TboxA553T

TboxA563T

TboxA885T

TboxA888T

TboxA8125T

TboxA8128T

TboxA8165T

TboxA8168T

TboxA12125T



- Metallic base plate.

-

-

TboxPBMA88

TboxPBMA88

TboxPBMA812

TboxPBMA812

TboxPBMA816

TboxPBMA816

TboxPBMA1212



- Telequick base plate.

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-

TboxPBRA88

TboxPBRA88

TboxPBRA812

TboxPBRA812

TboxPBRA816

TboxPBRA816

TboxPBRA1212



- DIN-rails, 15 mm.
- DIN-rails, 35 mm.

TboxCDIN15016.4

TboxCDIN15038.4

TboxCDIN15058.4

TboxCDIN15058.4

TboxCDIN15058.4  
TboxCDIN15096.4

TboxCDIN15058.4  
TboxCDIN15096.4

TboxCDIN15058.4  
TboxCDIN15136.4

TboxCDIN15058.4  
TboxCDIN15136.4

TboxCDIN15096.4

TboxCDIN35058.4

TboxCDIN35058.4

TboxCDIN35058.4  
TboxCDIN35096.4

TboxCDIN35058.4  
TboxCDIN35096.4

TboxCDIN35058.4  
TboxCDIN35136.4

TboxCDIN35058.4  
TboxCDIN35136.4

TboxCDIN35096.4



MEASUREMENTS (mm)

120 x 122 x 86

120 x 160 x 91

120 x 200 x 86

150 x 200 x 76

160 x 240 x 91

160 x 240 x 121

230 x 300 x 86

230 x 300 x 111



- ABS box with opaque ABS cover.
- Plain walls.

TboxA12128G

TboxA12169G

TboxA12208G

TboxA15207G

TboxA16249G

TboxA162412G

TboxA23208G

TboxA233011G



- ABS box with transparent polycarbonate cover.
- Plain walls.

TboxA12128T

TboxA12169T

TboxA12208T

TboxA15207T

TboxA16249T

TboxA162412T

TboxA23208T

TboxA233011T



- Metallic base plate.

TboxPBMA1212

TboxPBMA1216

TboxPBMA1220

TboxPBMA1520

TboxPBMA1624

TboxPBMA1624

TboxPBMA2330

TboxPBMA2330



- Telequick base plate.

TboxPBRA1212

TboxPBRA1216

TboxPBRA1220

TboxPBRA1520

TboxPBRA1624

TboxPBRA1624

TboxPBRA2330

TboxPBRA2330



- DIN-rails, 15 mm.
- DIN-rails, 35 mm.

TboxCDIN15096.4

TboxCDIN15096.4  
TboxCDIN15136.4

TboxCDIN15096.4

TboxCDIN35160.4  
(para anch 200 mm)

TboxCDIN15136.4

TboxCDIN15136.4

TboxCDIN35136.4  
TboxCDIN35215.4

TboxCDIN35275.4  
(para anch 300 mm)

TboxCDIN35275.4  
(para anch 300 mm)



MEASUREMENTS (mm)

75 x 125 x 75

75 x 125 x 100

75 x 125 x 125

125 x 125 x 75

125 x 125 x 100

125 x 125 x 125

125 x 175 x 75

125 x 175 x 100

125 x 175 x 125



- Polycarbonate box with opaque polycarbonate cover.
- Pre-punched walls.

TboxP7127GMK  
2xM16/25+6xM12/20

TboxP71210GMK  
2xM16/25+6xM12/20

TboxP71212GMK  
2xM16/25+6xM12/20

TboxP12127GMK  
4xM16/25+6xM12/20

TboxP121210GMK  
4xM16/25+6xM12/20

TboxP121212GMK  
4xM16/25+6xM12/20

TboxP12177GMK  
4xM16/25+8xM12/20

TboxP121710GMK  
4xM16/25+8xM12/20

TboxP121712GMK  
4xM16/25+8xM12/20



- Polycarbonate box with transparent polycarbonate cover.
- Pre-punched walls.

TboxP7127TMK  
2xM16/25+6xM12/20

TboxP71210TMK  
2xM16/25+6xM12/20

TboxP71212TMK  
2xM16/25+6xM12/20

TboxP12127TMK  
4xM16/25+6xM12/20

TboxP121210TMK  
4xM16/25+6xM12/20

TboxP121212TMK  
4xM16/25+6xM12/20

TboxP12177TMK  
4xM16/25+8xM12/20

TboxP121710TMK  
4xM16/25+8xM12/20

TboxP121712TMK  
4xM16/25+8xM12/20



- Polycarbonate box with opaque polycarbonate cover.
- Plain walls.

TboxP7127G

TboxP71210G

TboxP71212G

TboxP12127G

TboxP121210G

TboxP121212G

TboxP12177G

TboxP121710G

TboxP121712G



- Polycarbonate box with transparent polycarbonate cover.
- Paredes lisas.

TboxP7127T

TboxP71210T

TboxP71212T

TboxP12127T

TboxP121210T

TboxP121212T

TboxP12177T

TboxP121710T

TboxP121712T



- Base plate made of galvanized steel.

TboxPBMP813

TboxPBMP813

TboxPBMP813

TboxPBMP1313

TboxPBMP1313

TboxPBMP1313

TboxPBMP1318

TboxPBMP1318

TboxPBMP1318



- DIN-rail, 35 mm

TboxCDIN35040.4  
TboxCDIN35096.4

TboxCDIN35040.4  
TboxCDIN35096.4

TboxCDIN35040.4  
TboxCDIN35096.4

TboxCDIN35096.4

TboxCDIN35096.4

TboxCDIN35096.4

TboxCDIN35096.4  
TboxCDIN35140.4

TboxCDIN35096.4  
TboxCDIN35140.4

TboxCDIN35096.4  
TboxCDIN35140.4



MEASUREMENTS (mm)    125 x 175 x 150    175 x 175 x 75    175 x 175 x 100    175 x 175 x 125    175 x 175 x 150    175 x 250 x 75    175 x 250 x 100    175 x 250 x 150

	<ul style="list-style-type: none"> <li>Polycarbonate box with opaque polycarbonate cover.</li> <li>Pre-punched walls.</li> </ul>	TboxP121715GMK 4xM16/25+8xM12/20	TboxP17177GMK 4xM12/20+4xM16/25+10xM12/20	TboxP171710GMK 4xM12/20+4xM16/25+10xM12/20	TboxP171712GMK 4xM12/20+4xM16/25+10xM12/20	TboxP171715GMK 4xM12/20+4xM16/25+10xM12/20	TboxP17257GMK 4xM12/20+4xM16/25+12xM12/20	TboxP172510GMK 4xM12/20+4xM16/25+12xM12/20	TboxP172515GMK 4xM12/20+4xM16/25+12xM12/20
	<ul style="list-style-type: none"> <li>Polycarbonate box with transparent polycarbonate cover.</li> <li>Pre-punched walls.</li> </ul>	TboxP121715TMK 4xM16/25+8xM12/20	TboxP17177TMK 4xM12/20+4xM16/25+10xM12/20	TboxP171710TMK 4xM12/20+4xM16/25+10xM12/20	TboxP171712TMK 4xM12/20+4xM16/25+10xM12/20	TboxP171715TMK 4xM12/20+4xM16/25+10xM12/20	TboxP17257TMK 4xM12/20+4xM16/25+12xM12/20	TboxP172510TMK 4xM12/20+4xM16/25+12xM12/20	TboxP172515TMK 4xM12/20+4xM16/25+12xM12/20
	<ul style="list-style-type: none"> <li>Polycarbonate box with opaque polycarbonate cover.</li> <li>Plain walls.</li> </ul>	TboxP121715G	TboxP17177G	TboxP171710G	TboxP171712G	TboxP171715G	TboxP17257G	TboxP172510G	TboxP172515G
	<ul style="list-style-type: none"> <li>Polycarbonate box with transparent polycarbonate cover.</li> <li>Plain walls.</li> </ul>	TboxP121715T	TboxP17177T	TboxP171710T	TboxP171712T	TboxP171715T	TboxP17257T	TboxP172510T	TboxP172515T
	<ul style="list-style-type: none"> <li>Base plate made of galvanized steel.</li> </ul>	TboxPBMP1318	TboxPBMP1818	TboxPBMP1818	TboxPBMP1818	TboxPBMP1818	TboxPBMP1825	TboxPBMP1825	TboxPBMP1825
	<ul style="list-style-type: none"> <li>DIN-rail, 35 mm.</li> </ul>	TboxCDIN35096.4 TboxCDIN35140.4	TboxCDIN35140.4	TboxCDIN35140.4	TboxCDIN35140.4	TboxCDIN35140.4	TboxCDIN35140.4 TboxCDIN35215.4	TboxCDIN35140.4 TboxCDIN35215.4	TboxCDIN35140.4 TboxCDIN35215.4



MEASUREMENTS (mm)

150 x 150

200 x 200

300 x 150

300 x 200

300 x 300

400 x 200

400 x 300

400 x 400



- Melted steel box.
- Height 80 mm.

TboxAC15158

TboxAC2028

TboxAC30158

TboxAC30208

TboxAC30308

TboxAC40208

TboxAC40308

TboxAC40408



- Melted steel box.
- Height 120 mm.

TboxAC151512

TboxAC202012

TboxAC301512

TboxAC302012

TboxAC303012

TboxAC402012

TboxAC403012

TboxAC404012



- Base plate made of galvanized steel.

TboxPBM1515

TboxPBM2020

TboxPBM3015

TboxPBM3020

TboxPBM3030

TboxPBM4020

TboxPBM4030

TboxPBM4040

- DIN-rail, 35 mm.

TboxCDIN15

TboxCDIN20

TboxCDIN15  
TboxCDIN30

TboxCDIN20  
TboxCDIN30

TboxCDIN30

TboxCDIN20  
TboxCDIN40

TboxCDIN30  
TboxCDIN40

TboxCDIN40



MEASUREMENTS (mm)

500 x 200

500 x 300

600 x 200

600 x 300

600 x 400

800 x 200

800 x 400



- Melted steel box.
- Height 80 mm.

TboxAC50208

TboxAC50308

TboxAC60208

TboxAC60308

TboxAC60408

TboxAC80208

TboxAC80408

-



- Melted steel box.
- Height 120 mm.

TboxAC502012

TboxAC503012

TboxAC602012

TboxAC603012

TboxAC604012

TboxAC802012

TboxAC804012

-



- Base plate made of galvanized steel.

TboxPBM5020

TboxPBM5030

TboxPBM6020

TboxPBM6030

TboxPBM6040

TboxPBM8020

TboxPBM8040

-

- DIN-rail, 35 mm.

TboxCDIN20  
TboxCDIN50

TboxCDIN30  
TboxCDIN50

TboxCDIN20  
TboxCDIN60

TboxCDIN30  
TboxCDIN60

TboxCDIN40  
TboxCDIN60

TboxCDIN20  
TboxCDIN80

TboxCDIN40  
TboxCDIN80

-

# TECbox ALUMINIUM



MEASUREMENTS (mm)

64 x 58 x 36

64 x 98 x 36

64 x 150 x 36

80 x 75 x 57

80 x 125 x 57

80 x 175 x 57

80 x 250 x 57

120 x 122 x 90

120 x 220 x 90

120 x 360 x 80



■ Box made of aluminium, IP65.	TboxAL653	TboxAL693	TboxAL6153	TboxAL875	TboxAL8125	TboxAL8175	TboxAL8255	TboxAL12129	TboxAL12229	Tbox12368
■ Base plate made of galvanized steel.	TboxPBM54	TboxPBM69	TboxPBM615	TboxPBM87	TboxPBM812	TboxPBM817	TboxPBM825	TboxPBM1212	TboxPBM1222	TboxPBM1236



160 x 160 x 90

160 x 260 x 90

160 x 360 x 90

160 x 560 x 90

200 x 230 x 110

200 x 230 x 180

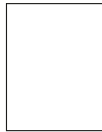
230 x 280 x 110

230 x 330 x 110

230 x 330 x 180



■ Box made of aluminium, IP65	TboxAL16169	TboxAL16269	TboxAL16369	TboxAL16569	TboxAL202311	TboxAL202318	TboxAL232811	TboxAL233311	TboxAL233318	-
■ Base plate made of galvanized steel.	TboxPBM1616	TboxPBM1626	TboxPBM1636	TboxPBM1556	TboxPBM2023	TboxPBM2023	TboxPBM2328	TboxPBM2333	TboxPBM2333	-



230 x 400 x 110

230 x 600 x 110

310 x 400 x 110

310 x 400 x 180

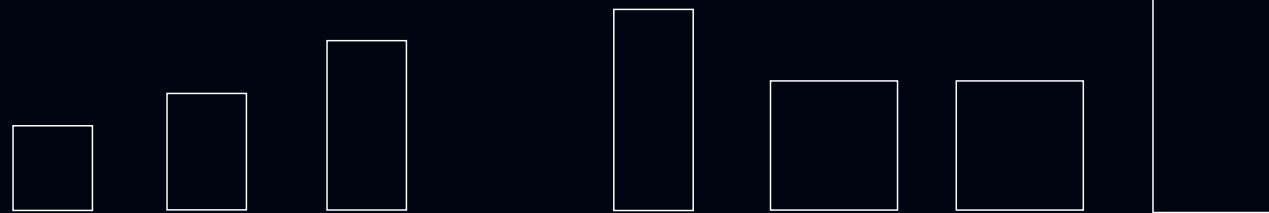
310 x 600 x 110

310 x 600 x 180



■ Box made of aluminium, IP65	TboxAL234011	TboxAL236011	TboxAL314011	TboxAL314018	TboxAL316011	TboxAL316018	-	-	-	-
■ Base plate made of galvanized steel.	TboxPBM2340	TboxPBM2360	TboxPBM3140	TboxPBM3140	TboxPBM3160	TboxPBM3160	-	-	-	-

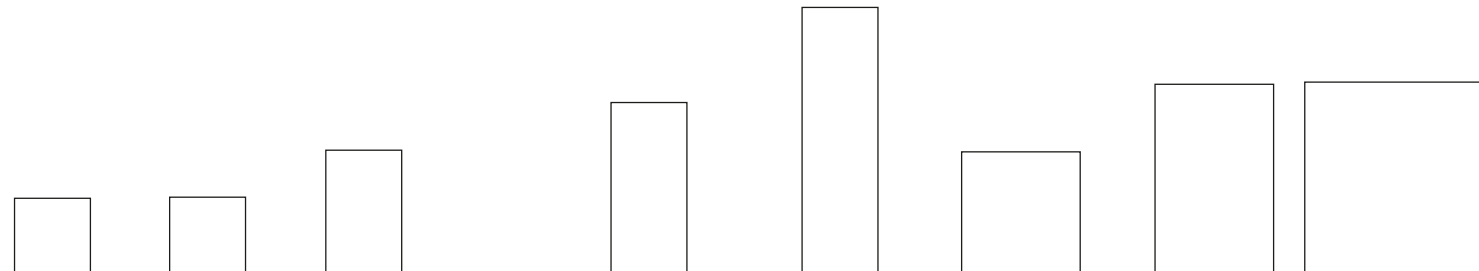




MEASUREMENTS (mm)      75 x 80 x 55      75 x 110 x 55      75 x 160 x 55      75 x 190 x 55      120 x 122 x 90      120 x 122 x 120      120 x 220 x 90



■ Box made of polyester, IP65.	TboxPO785	TboxPO7115	TboxPO7165	TboxPO7195	TboxPO12129	TboxPO121212	TboxPO12229	-
■ Base plate made of galvanized steel.	TboxPBM78	TboxPBM711	TboxPBM716	TboxPBM719	TboxPBM1212	TboxPBM1212	TboxPBM1212	-



160 x 160 x 90      160 x 160 x 120      160 x 260 x 90      160 x 360 x 90      160 x 560 x 90      250 x 255 x 120      250 x 400 x 120      400 x 405 x 120



■ Box made of polyester, IP65.	TboxPO16169	TboxPO161612	TboxPO16269	TboxPO16369	TboxPO16569	TboxPO252512	TboxPO254012	TboxPO404012
■ Base plate made of galvanized steel.	TboxPBM54	TboxPBM1616	TboxPBM1626	TboxPBM1636	TboxPBM1656	TboxPBM2525	TboxPBM2540	TboxPBM4040



# TECbox COMMON ACCESSORIES



## SET OF 4 BRACKETS

TECbox TYPE:	REF.:
ABS Acryl-Butadiene-Styrene	TboxDFL1
PC Polycarbonate	TboxSFL1
S Steel	TboxacACFL11
SS Stainless Steel	TboxacCinoxFL1



## WALL MOUNTING FOR ALUMINIUM AND POLYESTER

TECbox TYPE:	REF.:
AL Aluminium	TboxALFL1
PO Polyester	TboxPOFL1



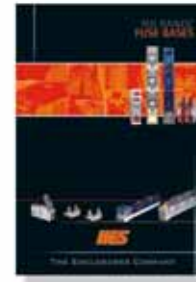
## SET OF HINGES

TECbox TYPE:	REF.:
ABS Acryl-Butadiene-Styrene	TboxDSH11
PC Polycarbonate	TboxDSH11
S Steel	TboxacACFH11
SS Stainless Steel	TboxacACFH11
AL Aluminium	TboxacALH11
PO Polyester	TboxacPOH11



## HUBCAP

TYPE TECbox:	REF.:
ABS Acryl-Butadiene-Styrene	TboxDFL1
PC Polycarbonate	TboxSBI1



FUSE BASES



PROCONNECT PLUGS & SOCKETS



COMBIESTER System



MINIPOL System



MAXIPOL System



Distribution Network Systems



TOPO



TECbox System



INOXPOL System

"More than 9.000 products  
in 7 ranges at your disposal"



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