



INDUSTRIAL ENCLOSURE SOLUTIONS

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# OUTDOOR RACK WITH DOUBLE WALL TORNADO SERIES IP66



STAINLESS  
ANTICORROSIVE  
GUARANTEE



MECHANICAL PARTS  
GUARANTEE





## WE PUT AT YOUR DISPOSAL

We offer over **45 years** providing solutions to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

## WHEREVER YOU GO

We are committed to working closely with our customers, providing them with **exceptional service** and offering an advanced and extensive range of products with very competitive prices.

## HIGH STANDARD OF QUALITY AND SERVICES

We only use materials provided by companies who offer the very **highest quality**, suitable and certified products. Our success is due to top quality assurance: ISO 9001, SGS, UL, TÜV, ISO 14000 and Ohsas 18001.

## CUSTOMIZE TOTALLY YOUR ENCLOSURE

Our production systems can give custom-made solutions **on demand**. Every colour from RAL chart is available to be personalized. A variety of protection standards thanks to our own painting facilities.



**100%**

*Entirely designed  
and manufactured  
in Europe*

## CONTACT US

Confidentiality, reliability & quality

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ALSO ONLINE

Please contact our technical sales department

A team of professionals with high experience and ability to solve all your queries



# OUTDOOR RACK WITH DOUBLE WALL

## TORNADO SERIES IP66



Example

### Large Space Inside for Rack Equipments

Stainless steel cabinet Tornado Series with or without 19" or 21" rack system, especially designed for outdoor use: thermo-insulated and self-cooling double wall for better protection of the electronics, servers, CCTV, telecommunications, voice, data, fibre optics,... Ideal for protecting electronic equipment against temperature change. The interior design allows easy placement of racks, mounting plates, trays, dividers,...

Equipped with a removable tray for easy cable entry and hole cutting. Includes socket 100 mm, 19" frame rack and anti-vandalism handle made resistant to corrosion and weathering.

➔ [FOR MORE INFORMATION CLICK HERE](#)



## APPLICATIONS

Ideal for outdoor computer placement, weather stations, telecommunications, CTV, ETSI, fibre optics, security and video surveillance, traffic light controls, street lighting or any other application that needs extra outdoor protection. For outdoor use in areas experiencing extreme temperatures or harsh environments. External placement:

- Areas with extreme temperatures or hostile environments.
- Desert areas, tropical, high mountain.

## TECHNICAL FEATURES

- Material: stainless steel, aluminium or galvanized.
- Available with 1 or 2 doors.
- Height: from 1185 mm to 1585 mm (other sizes on request).
- Width: 600 mm and 800 mm. (other sizes on request).
- Depth: 600 mm and 800 mm (other sizes on request).
- Rack height: : 20 U, 25 U, 30 U, 35 U and 40 U.
- Sealing: from IP43 to IP66.
- Packing unit: 1.
- Front door: metal with anti-vandalism handle.
- Cable entry: from below.

## ADVANTAGES

- The best system of telecommunication rack cabinets on the market.
- Earthquake and vibration control.
- Thermo insulated and self-cooled.
- Approved water resistant sealing and UL certified, on exterior doors.
- Maximum security against vandalism and lever forced opening.
- Anti-vandalism socket.
- Maximum insulation capacity.
- Especially designed for telecommunications, telephone, fibre optics and public lighting.
- Double thermal proof walls.
- Highly resistant to vandalism.

## MATERIALS

- Stainless steel outdoor rack, corrosion resistant C5H.
- Aluminium outdoor rack, improves cooling and is lighter (2 mm).
- Galvanized outdoor rack, a cheaper alternative.



## OPTIONS

- Delvalle can design a specific solution to the client's requirements while retaining the fundamentals of thermal insulation, sealing, safety and easy installation.
- Material: stainless steel, aluminium or galvanized.
- 19" or 21", depending on rack support position.
- Several options in roof ventilation.
- 200 mm plinth at base.
- Possibility of including air conditioning equipment attached to one side or the roof.
- Can also be supplied without a frame rack but with trays.
- Handle with locking system.
- Full range of accessories available.
- The tray can include micro cuts for later placement of different options.

## OPTION SUN REFLECTIVE TREATMENT COATING "SUNTERM" FOR OUTDOOR ELECTRICAL ENCLOSURES



SunTerm treatment coating for use in outdoor electrical enclosures, contain a reflective component that deflects the infrared light, and thus the half of the sun's total energy, from

any substrate that it coats. As a result, the surface of the substrate, and any interior ambient that it protect, are cooler than a standard coating.

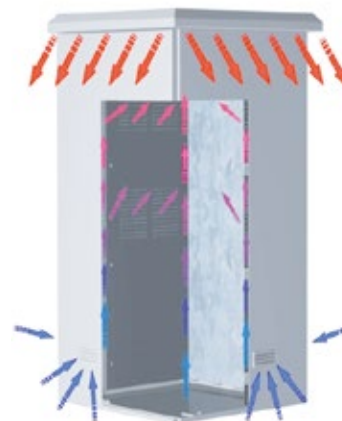
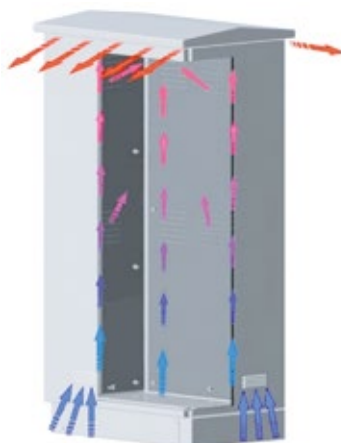
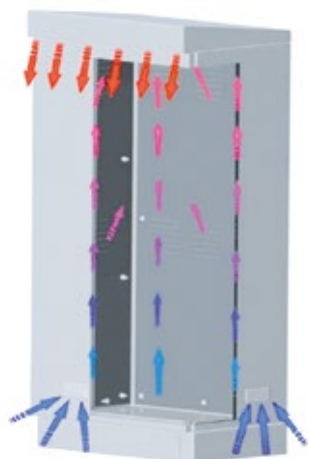
As a treatment solution SunTerm also gives you high corrosion resistant for outdoor environments.

Temperature outdoor resistant  
-40°C +80 °C.

Test under lab controlled conditions showed that the aluminum substrate being coated with SunTerm is 7°C cooler than coated with standard coating inside.

## AIR MOVEMENT INSIDE THE CABINET

- Standard front ventilation cabinet
- Cabinet with extra ventilation (front and back)
- Cabinet with extra ventilation (four sides)



## OUTDOOR FINISH ANTIPOSTER

Outdoor cabinet antiposter; specially designed for public lighting, urban furniture, city hall, shopping centers, buildings...

Its design with rumble strips prevents the sticking of posters. It is also aesthetically more elegant

Available in two materials: aluminium and galvanized steel with epoxy - polyester paint.



Example

## ACCESORIES

- Rack suport



The design of our cabinet means 19" or 21" profiles can be fitted inside as well as the desired components.

- Fan



Placing a fan at the top of the cabinet brings a continuous flow of air inside.

- Sockets



The anti-vandalism socket, especially designed for this model, prevents access to the cabinet and robbery.

- Diffusers



For a perfectly controlled circulation of air inside, both walls and doors incorporate diffusers.

- Roof



With three models of roof we cover all needs to achieve air evacuation, from a simple front, front and rear and finally one from all four sides.

- Brackets



Simple side brackets, coupled with an anti-insect screen, allows the entry of air and prevents the passage of anything larger than 1 mm<sup>2</sup>

TR01 AC01	Ventilation Kit	MVRACM	Heaters (Up to 2000 W). Contact us for further information.
MVSR	Trays	CONSULTAR	Canopies with extra ventilation
MVRT01	Door stop	TROPICO SERIES	Air-conditioning (recommended to obtain a constant temperature)

## VENTILATION KIT

REFERENCE

TR01 AC01

After studying the requirements that our customers demand in ventilation issues, Delvalle includes a kit of accessories consisting of the following elements:

- Roof fan
- Resistance heating
- Dual thermostat



## NORMS

- From IP43 to IP66 . Norm IEC EN 62208 and EN 60529/10.91.
  - IP43 with ventilation brackets
  - IP54 with vent grille
  - IP66 without ventilation
- 2014/35/UEEN 50102
- Maximum voltage 1000V
- UL Nema 4x, 12, 1, 3r by request. N° File E342220.
- Several options in roof ventilation 200 mm plinth at base.
- EN61969-3 Mechanical structures for electronic equipment and outdoor enclosures.
- Possibility of including air conditioning equipment attached to one side or the roof.
- Can also be supplied without a frame rack but with trays.
- Handle with locking system. Available with 1 or 2 doors.
- The tray can includes micro cuts for later placement of different options.



**10**  
YEARS

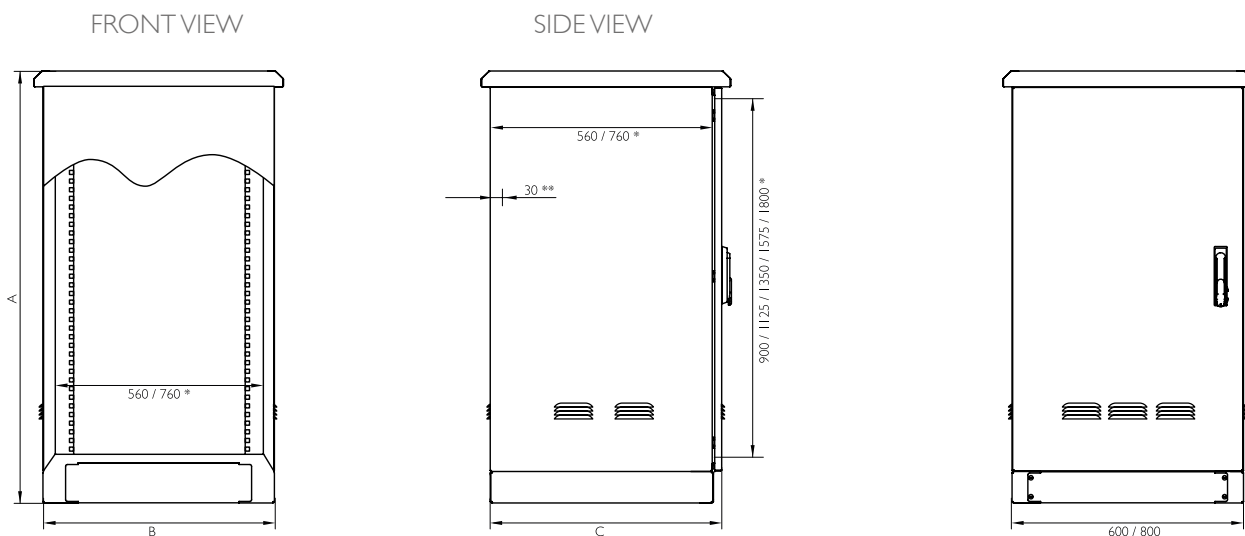
STAINLESS  
ANTICORROSIVE  
GUARANTEE

**5**  
YEARS

MECHANICAL PARTS  
GUARANTEE

## PLAN AND REFERENCES | DOOR

CLICK HERE TO DOWNLOAD  
THE FILES CAD - PLANS - CERTIFICATES



\*Internal dimensions

\*\*Internal dimensions for two door cabinets

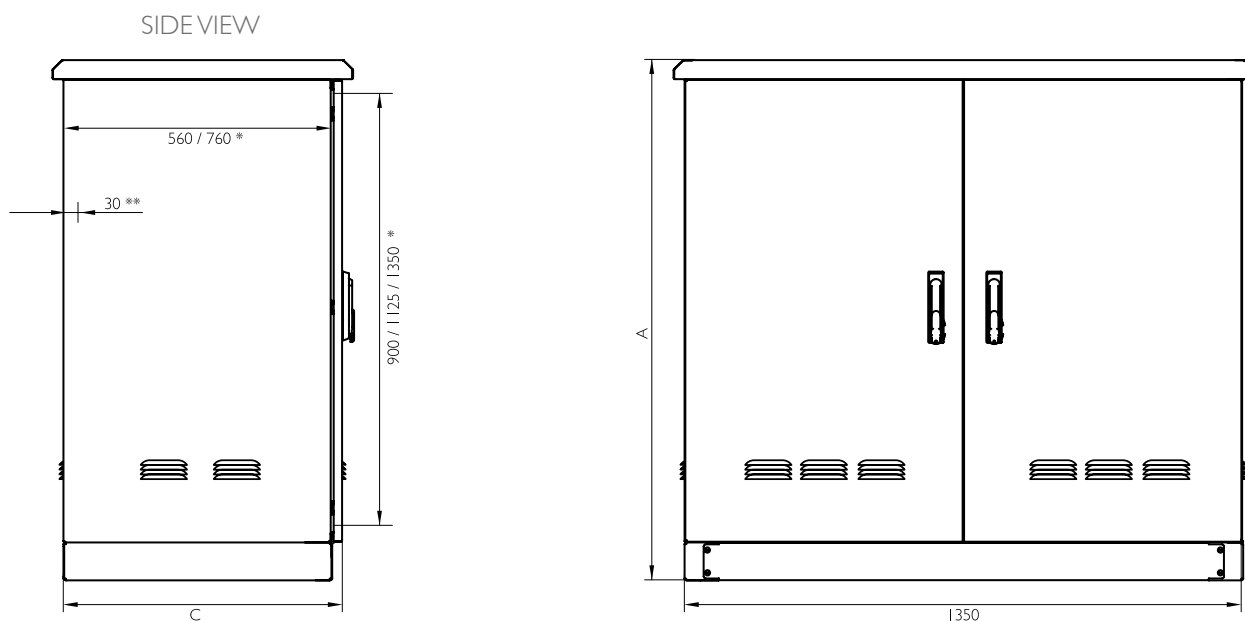
REFERENCES - MATERIALS			DIMENSIONS (mm)						
STAINLESS STEEL	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)	DOUBLE DOOR MACHINABLE AREA	LATERAL MACHINABLE AREA	PLATE MEASURES
TRI16080	TRALI16080	TRGI16080	TORNADO 20 U	1185	600	800	905x430	925x715	965x530
TRI16060	TRALI16060	TRGI16060	TORNADO 20 U	1185	600	600	905x430	925x515	965x530
TRI18080	TRALI18080	TRGI18080	TORNADO 20 U	1185	800	800	905x630	925x715	965x730
TRI18060	TRALI18060	TRGI18060	TORNADO 20 U	1185	800	600	905x630	925x515	965x730
TRI36080	TRALI36080	TRGI36080	TORNADO 25 U	1385	600	800	1105x430	1125x715	1165x530
TRI36060	TRALI36060	TRGI36060	TORNADO 25 U	1385	600	600	1105x430	1125x515	1165x530
TRI38080	TRALI38080	TRGI38080	TORNADO 25 U	1385	800	800	1105x630	1125x715	1165x730
TRI38060	TRALI38060	TRGI38060	TORNADO 25 U	1385	800	600	1105x630	1125x515	1165x730
TRI56080	TRALI56080	TRGI56080	TORNADO 30 U	1585	600	800	1305x430	1325x715	1165x730
TRI56060	TRALI56060	TRGI56060	TORNADO 30 U	1585	600	600	1305x430	1325x515	1165x730
TRI58080	TRALI58080	TRGI58080	TORNADO 30 U	1585	800	800	1305x630	1325x715	1365x530
TRI58060	TRALI58060	TRGI58060	TORNADO 30 U	1585	800	600	1305x630	1325x515	1365x530
TRI86080	TRALI86080	TRGI86080	TORNADO 35 U	1885	600	800	1555x430	1575x715	1615x530
TRI86060	TRALI86060	TRGI86060	TORNADO 35 U	1885	600	600	1555x430	1575x515	1615x530
TRI88080	TRALI88080	TRGI88080	TORNADO 35 U	1885	800	800	1555x630	1575x715	1615x730
TRI88060	TRALI88060	TRGI88060	TORNADO 35 U	1885	800	600	1555x630	1575x515	1615x730
TR206080	TRAL206080	TRG206080	TORNADO 40 U	2060	600	800	1780x430	1800x715	1840x530
TR206060	TRAL206060	TRG206060	TORNADO 40 U	2060	600	600	1780x430	1800x515	1840x530
TR208080	TRAL208080	TRG208080	TORNADO 40 U	2060	800	800	1780x630	1800x715	1840x730
TR208060	TRAL208060	TRG208060	TORNADO 40 U	2060	800	600	1780x630	1800x515	1840x730
Version Norme UL			Add "UL" to reference. Ex: "TR208080UL"						
Version Rear Door			Add code letter P to reference. Ex: "TR208080P"						

Separation depth plate 20mm



## PLAN AND REFERENCES 2 DOORS

➔ [CLICK HERE TO DOWNLOAD THE FILES CAD - PLANS - CERTIFICATES](#)



REFERENCES - MATERIALS			DIMENSIONS (mm)			
STAINLESS STEEL	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)
TRI11380D	TRALI11380D	TRGI11380D	TORNADO 20 U	1160	1350	800
TRI11360D	TRALI11360D	TRGI11360D	TORNADO 20 U	1160	1350	600
TRI31380D	TRALI31380D	TRGI31380D	TORNADO 25 U	1385	1350	800
TRI31360D	TRALI31360D	TRGI31360D	TORNADO 25 U	1385	1350	600
TRI61380D	TRALI61380D	TRGI61380D	TORNADO 30 U	1610	1350	800
TRI61360D	TRALI61360D	TRGI61360D	TORNADO 30 U	1610	1350	600
TRI81380D	TRALI81380D	TRGI81380D	TORNADO 35 U	1835	1350	800
TRI81360D	TRALI81360D	TRGI81360D	TORNADO 35 U	1835	1350	600
Version Norme UL			Add "UL" to reference. Ex: "TR208080UL"			

\* Standard dimensions (any rack can be custom made to meet needs)



## CUSTOMIZED ENCLOSURE SOLUTIONS DELVALLE

*Delvalle has more than 50 years of experience using the latest technology to implement and obtain the most innovative products on offer to all our customers. Delvalle is an ideal partner, combining an advanced and wide range of products at very competitive prices.*

*The customized manufacture of all electrical enclosures and cabinets Delvallebox is carry out with the most advanced technical methods and with the precision and consciousness of a craftsman. This makes the difference from competitors and is the best way to gain our customers' trust.*

*In Delvallebox we bear in mind that customers perceive the quality very clearly. In every product (for instance, in the cabinets here presented) safety and useful solutions are what customers value most.*



STAINLESS STEEL  
INDUSTRIAL ENCLOSURES



OUTDOOR ELECTRICAL  
ENCLOSURES



GLOBAL ELECTRICAL  
SOLUTIONS FOR URBAN AREAS



GALVANIZED STEEL  
ELECTRICAL ENCLOSURES

## ATEX INDUSTRIAL ENCLOSURES



### SLOPED ROOF ENCLOSURES - HYGIENIC



## INDUSTRIAL ENCLOSURES IP66, IP67, IP68 AND IP69K

Buy direct from manufacturer of custom made IP66, IP67, IP68 and IP69K heavy duty industrial and waterproof electrical enclosures AISI 304L and 316L made by standard IEC 60529. Delvalle has tested all sizes and dimensions of waterproof enclosures according to EN 60529:2018. All weather resistant enclosures are more than simply rainproof, they meet a minimum of Nema 4X and IP66, IP67, IP68 and IP69k requirements to ensure your electronics are protected. From Junction boxes to industrial enclosures, Delvalle weatherproof enclosures offer a wide range of sizes and styles to keep your project waterproof.



## CLIMATE CONTROL COOLING FOR ENCLOSURES



### CABLE GLANDS FOR ELECTRICAL ENCLOSURES





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