



INDUSTRIAL ENCLOSURE SOLUTIONS

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ALUMINIUM OUTDOOR RACK WITH DOUBLE WALL

TORNADO SERIES IP66



ANTICORROSIVE
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



ALUMINIUM OUTDOOR RACK WITH DOUBLE WALL

TORNADO SERIES IP66



Example

Large Space Inside for Rack Equipments

Aluminium 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.

TECHNICAL FEATURES

- Material: stainless steel, aluminium or galvanized.
- Rack colour: grey RAL 7035. other colours on request.
- 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

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

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.

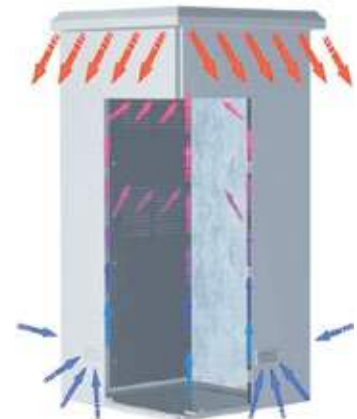
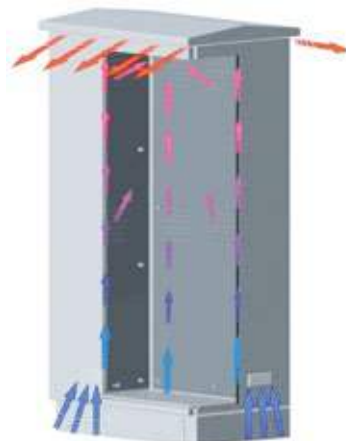
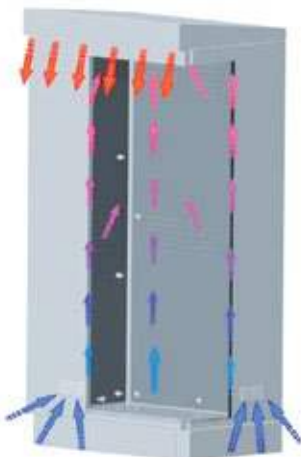
As a treatment solution SunTerm also gives you high corrosion resistant for outdoor environments.

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 anti poster, 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

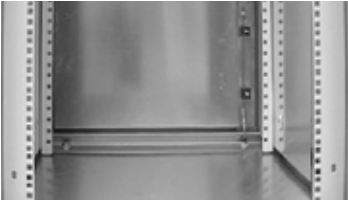
Available in two materials: aluminium and galvanized steel with epoxy - polyester paint.



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 mm²

TR01 AC01	Ventilation Kit	MVRACM	Heaters (Up to 2000 W). Contact us for further information.
MVV01	Anchor frame base	MVC I I	Safety closure "Temper"
MVCI	Handle	MVDT01	Tamper detector
MVSR	Trays	CONSULTAR	Canopies with extra ventilation
MVRT01	Door stop	TRÓPICO SERIES	Air-conditioning (recommended to obtain a constant temperature)

VENTILATION KIT

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/UE
- EN 50102
- Maximum voltage 1000V.
- Certificat UL Nema 4, 12, I, 3r á la demande. N° File E342220.
- EN61969-3 Mechanical Structures for Electronic Equipment and Outdoor Enclosures.
- UL Nema 4x, 12, I, 3r by request. N°File E342220.



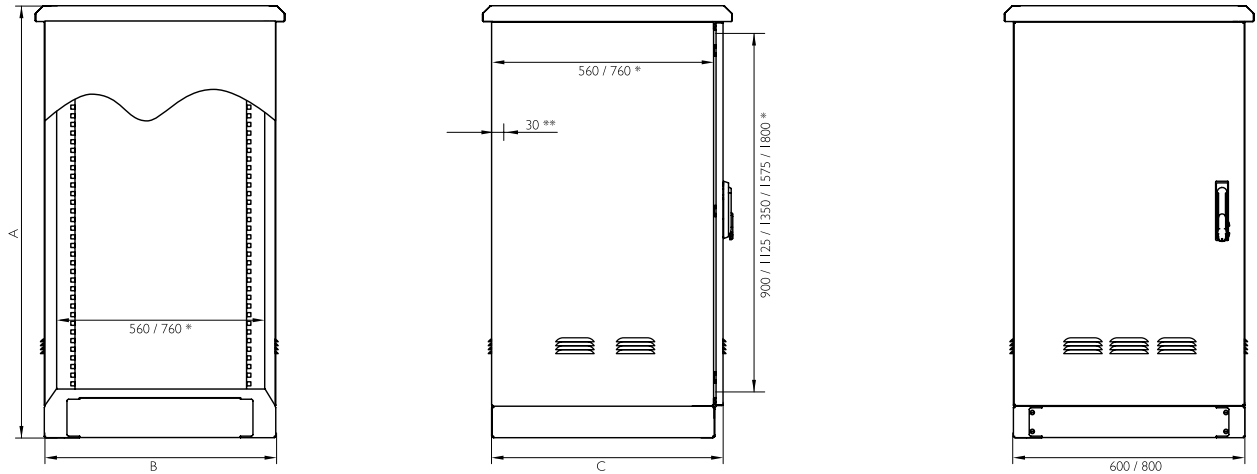
ANTICORROSIVE
GUARANTEE

ONE DOOR

PLAN

CLICK HERE TO DOWNLOAD THE FILES CAD - PLANS - CERTIFICATES

SIDE VIEW



*Internal dimensions

**Internal dimensions for two door cabinets

REFERENCES

REFERENCES - MATERIALS			DIMENSIONS (mm)						
STAINLESS STEEL	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)	DOUBLE DOOR MACHINABLE AREA	LATERAL MACHINABLE AREA	PLATE MEASURES
TR116080	TRAL116080	TRG116080	TORNADO 20 U	1185	600	800	905x430	925x715	965x530
TR116060	TRAL116060	TRG116060	TORNADO 20 U	1185	600	600	905x430	925x515	965x530
TR118080	TRAL118080	TRG118080	TORNADO 20 U	1185	800	800	905x630	925x715	965x730
TR118060	TRAL118060	TRG118060	TORNADO 20 U	1185	800	600	905x630	925x515	965x730
TR136080	TRAL136080	TRG136080	TORNADO 25 U	1385	600	800	1105x430	1125x715	1165x530
TR136060	TRAL136060	TRG136060	TORNADO 25 U	1385	600	600	1105x430	1125x515	1165x530
TR138080	TRAL138080	TRG138080	TORNADO 25 U	1385	800	800	1105x630	1125x715	1165x730
TR138060	TRAL138060	TRG138060	TORNADO 25 U	1385	800	600	1105x630	1125x515	1165x730
TR156080	TRAL156080	TRG156080	TORNADO 30 U	1585	600	800	1305x430	1325x715	1165x730
TR156060	TRAL156060	TRG156060	TORNADO 30 U	1585	600	600	1305x430	1325x515	1165x730
TR158080	TRAL158080	TRG158080	TORNADO 30 U	1585	800	800	1305x630	1325x715	1365x530
TR158060	TRAL158060	TRG158060	TORNADO 30 U	1585	800	600	1305x630	1325x515	1365x530
TR186080	TRAL186080	TRG186080	TORNADO 35 U	1885	600	800	1555x430	1575x715	1615x530
TR186060	TRAL186060	TRG186060	TORNADO 35 U	1885	600	600	1555x430	1575x515	1615x530
TR188080	TRAL188080	TRG188080	TORNADO 35 U	1885	800	800	1555x630	1575x715	1615x730
TR188060	TRAL188060	TRG188060	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"						

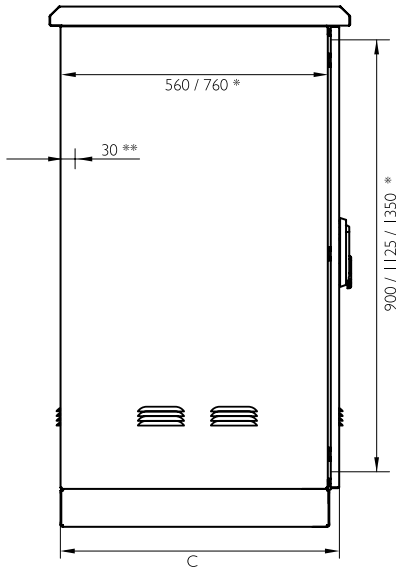
Separation depth plate 20mm

TWO DOORS

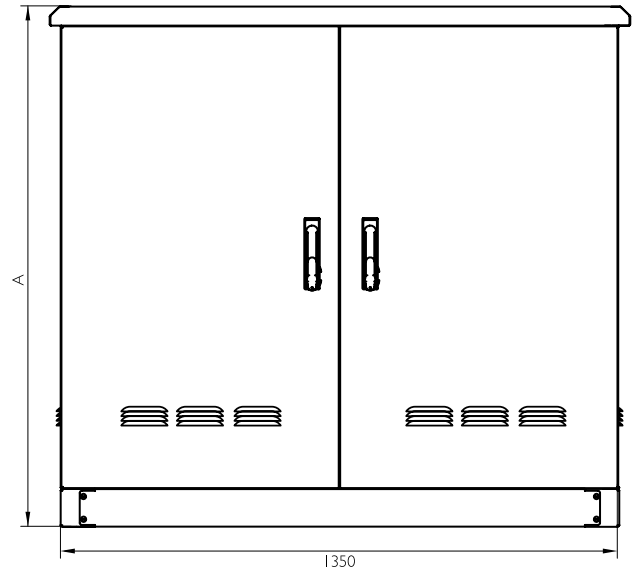
PLAN

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SIDE VIEW



*Internal dimensions



**Internal dimensions for two door cabinets

REFERENCES

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
TRI131380D	TRALI131380D	TRGI131380D	TORNADO 25 U	1385	1350	800
TRI131360D	TRALI131360D	TRGI131360D	TORNADO 25 U	1385	1350	600
TRI161380D	TRALI161380D	TRGI161380D	TORNADO 30 U	1610	1350	800
TRI161360D	TRALI161360D	TRGI161360D	TORNADO 30 U	1610	1350	600
TRI181380D	TRALI181380D	TRGI181380D	TORNADO 35 U	1835	1350	800
TRI181360D	TRALI181360D	TRGI181360D	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 45 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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Contact us, we will be available at any time

