

CONTRACT MANUFACTURING



ALCO Diseño y Manufactura with more than 24 years of experience, pioneers in this region and in constant evolution where our processes are at the forefront of technological development, specialized in designing and manufacturing customized projects according to our clients' needs, focusing 100% of our effort obtaining as a result higher productivity and speed in service.

In **ALCO Diseño y manufactura**, we focus on the development of products by piece or by contract for the control, administration, automation, and the distribution of electric energies which are synonymous of Service, Technology, and Innovation.

We join to your projects through a synergy that allow us to be a provider of solutions of **ENDLESS IDEAS** in accordance to your needs. In **ALCO Diseño y Manufactura** our success is summarized in being able to reach and raise our customers' expectations.

Our honest and ethic values lead us to a path that allow us to join in a parallel way the search of our customer's targets by being a trustable and compromised option that always provides the confidence that all of our dedication is being delivered in each one of our projects. **ALCO Diseño y Manufactura** is the trustable and reliable extension of the company.



OUR TARGET

It is generating values to our customers developing and manufacturing high quality products in accordance to your specifications at a competitive price no matter how unique it is.



CUSTOM-MADE PROJECTS

We develop projects and products in accordance to our clients' needs, which are important for the transformation and distribution of electric energy that nowadays are found in a variety of Industries.



OUR CUSTOMERS ARE VALUABLE

Transforming your ideas in competitive business opportunities.



CERTIFICATIONS



Company certified in its quality management system under the ISO 9001: 2015 standard.



Certified painting process with UL DTVV2.



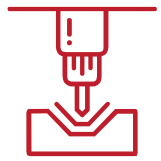
Certification of enclosures for type 1 industrial control panels.

SERVICES



LASER CUT

This process has a precision of $\pm .05$ mm, meeting the highest standards. Our cut capacity for a sheet is up to 3/8. We currently own laser and guillotine cut machines.



PUNCHING

Our equipment has an exact punching of $\pm .05$ mm over positioning. This generates special inlays under 2 1/2", with a capacity of up to 25 tons (1/4 thickness). It's maximum wide of sheet processing is 1.2 mts by indefinite length.



CNC BENDING MACHINES

We have two benders with a bending capacity of 42 to 220 tons and with a precision of .10 mm. This way we are able to offer our customers designs of more specialized products and optimum production times.



PANEL BENDER

This Italian process technology mixes productivity in native form with folded universal cycles and automatic handle, flexibility with folded universal tools to produce a big amount of pieces in a small amount of time without mistakes. Unique in the north side of our Country.



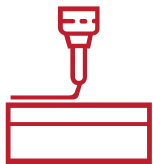
WELDING ROBOT

Currently we weld by the TIG process (Tungsten inert gas). The advantage of this method is basically to get more resistant cords, more ductile and less sensitive to erosion than other procedures. We also have the capacity to weld by MIG process which is a versatile process depositing metal at a high speed and in different positions.



ELECTROSTATIC PAINT

It consists in applying resins (powder) by a continue electrostatic process through an aerial line with controlled speed which delivers speed in execution, security, and quality guarantee. The covering paint application is fundamental in the quality and presentation in all our products. We apply different thicknesses, colors and textures in accordance with our client specs or product's needs by their type of usage. In addition, we offer a guarantee of duration as per B-117 norm. Our application beats the most rigorous tests from 480 to 1,000 hours resistant in a saline chamber. We have 3 painting lines prepared to be on time with the delivery times requested. Certification UL DTVV2.



FOAM GASKET INJECTION

Our foam gasket is injected continuously into one piece in compliance to the FIPFG process (formed in place foam gasket). The system consists in a mixture of components that produces a sealed foam after a few minutes, with UL certification.

PROCESSED MATERIALS

- Cold rolled Carbon Steel. Cold or Hot.
- Galvanized Steel.
- Carbon Steel finished in Galvanized Electrolite.
- Stainless Steel, Type 304, 316 y 430.
- Aluminum , Alloy 1100 H14 Y 5052H32

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CONTROL AND MEASUREMENT



CONTRACT MANUFACTURING

FIXED FRAME ENCLOSURE

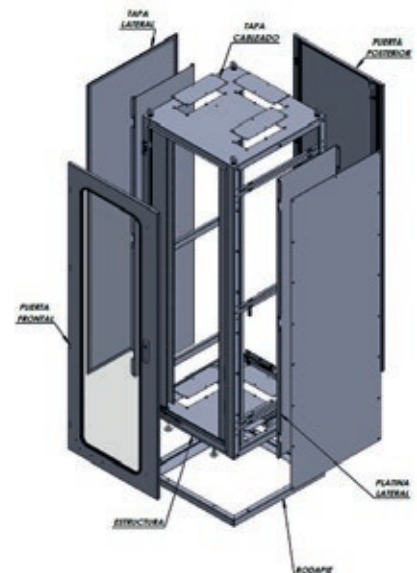
DESCRIPTION

This enclosure is made for interior use and designed to shelter equipments for protection, control, and measurement.

This enclosure is built with welded structure and screwed side covers to facilitate the joint of the required sections for the project.

CHARACTERISTICS

- Gauges 12 and 14.
- 1 front door with a 5mm acrylic clear window 5mm with a limited opening of 120 degrees.
- 3 point plates closing system with polyamide handle and Universal Phillip's key.
- Stainless steel hinges type 304 gauge 12.
- 1 19" fixed rack with a maximun opening of 105 degrees including 45 UR (Rack units).
- 3 blind mount plates on each side and one rear manufactured in gauge 14.
- 2 screwed side covers and one at the back gauge 14.
- Floor and Ceiling with Access to get in cables with screwed covers with tesamol packing.
- Ceiling preparation to assemble a lamp.
- Protection for heating resistance.
- Perforated copper plate 1 ½ X ¼ X24 inches nickel finishing with a capacity of 300A.
- 4 cast steel lifting eye.
- Microswitch support.
- 25 micron primary finishing. Two coats of 38 micron as minimum in Catalyzed epoxy.
- Light gray color 5 fine texturized (or as per our customer's requirements).



CODE	LINE	SIZE*	NEMA	TIPE	MATERIAL	CATEGORY
12AGF230.080.080	PCYM	230X80X80 cm	12	FLIP FRAME	CARBON STEEL	KEYBOARD

FLIP FRAME ENCLOSURE



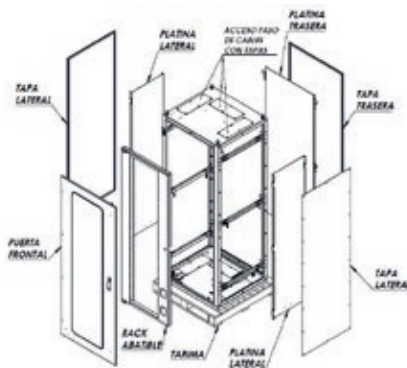
DESCRIPTION

This enclosure is made for interior use and designed to protect, control and measurement of the equipment.

This enclosure is built with welded structure and screwed side covers to facilitate the joint of the required sections for the project.

CHARACTERISTICS

- Gauges 12 and 14.
- 1 front door with an acrylic clear window 5mm with a limited opening 120 degrees.
- 3 points plates closing system with polyamide handle and Universal Philip's Key.
- Stainless steel hinges type 304 gauge 12.
- 1 flip 19 inches rack with a maximum opening 105 degrees with 45 UR (Rack units).
- 3 blind mount plates on each side and one rear manufactured in gauge 14.
- 2 screwed side covers and one at the back gauge 14.
- Floor and Ceiling with Access to get in cables with screwed covers with tesamol packing.
- Ceiling preparation to assemble a lamp.
- Protection for heating resistance.
- Perforated copper plate 1 ½ X ¼ X24 inches nickel finishing with a capacity 300A.
- 4 cast steel lifting eye.
- Microswitch support.
- 25 micron primary finishing. Two coats 38 micron as minimum in Catalyzed epoxy.
- Light gray color 5 fine textured (or as client required).



CODE	LINE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
12AGA230.090.080	PCYM	230X90X80 cm	12	FLIP FRAME	CARBON STEEL	KEYBOARD

FIXED FRAME ENCLOSURE WITH KEYBOARD TRAY

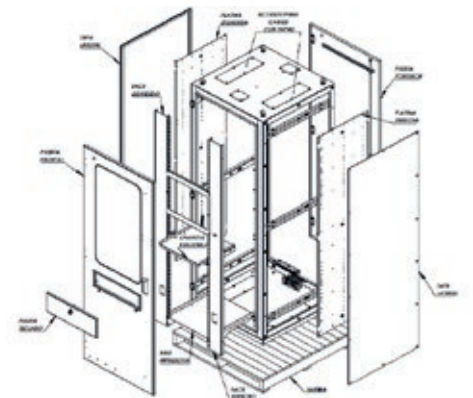
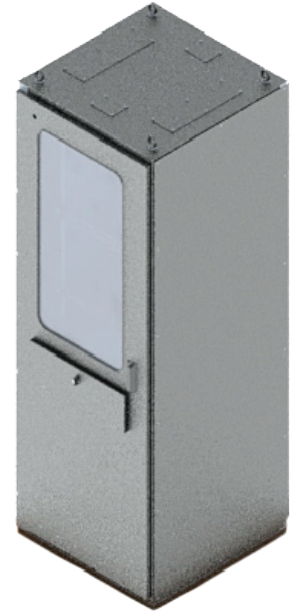
DESCRIPTION

This enclosure is made for interior use and designed to protect, control and measurement of the equipment.

This enclosure is built with welded structure and screwed side covers to facilitate the joint of the required sections for the project.

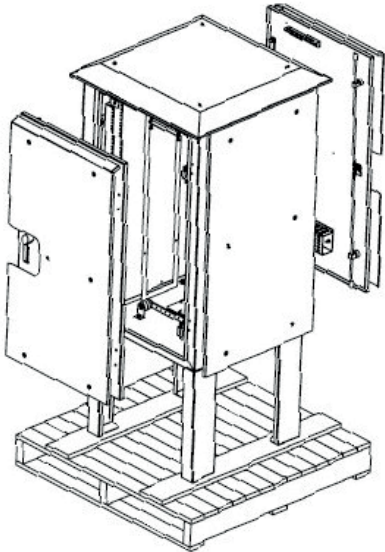
CHARACTERISTICS

- Gauge 12 and 14.
- 2 front doors one of them with an acrylic clear window 5mm and a limited opening 120 degrees, an intermediate door for keyboard access.
- Blind back door with a limited opening 120 degrees.
- 3 point plates closing system with polyamide handle and Universal Philip's key.
- Stainless steel hinges type 304 gauge 12.
- 1 flip 19 inches rack with 48 UR (rack units).
- 2 blind mount plates one in each side gauge 14 od 2150X520 mm.
- 2 screwed side covers in sheet gauge 14.
- Flip sliding tray 2UR.
- Floor and ceiling Access to get in/out cables con side screwed covers and tesamol packing.
- Ceiling preparation to assemble a lamp.
- Protection for heating resistance.
- Copper perforate plate 11/2X1/4X24 inches. Nickel finishing with 300A capacity.
- 4 cast steel lifting eye.
- Rear door microswitch support.
- Primary finished 25 micron finishing paint two coats of 38 micron as minimum in catalyzed epoxy.
- Light gray color 5, fine texturized (or as per our customer's requirement).



CODE	LINE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
12AGC230.080.080	PCYM	230X80X80 cm	12	FIXED FRAME WITH TRAY	CARBON STEEL	KEYBOARD

FIELD ENCLOSURE



DESCRIPTION

This enclosure is designed for exterior areas and manufactured to deal with extreme weather conditions as snow, rain, wind and water pressure.

It is manufactured in just one stainless steel type NEMA 4 X.

CHARACTERISTICS

- Gauges 12, 14 and 16.
- 2 doors one at the front y one back with a limited opening of 90 degrees.
- Closing system with 3 point plates with stainless steel handle and padlock holder.
- Stainless steel hinges type 304, gauge 12.
- 1 front fixed 19 inches rack with 21 UR (rack units).
- 2 blind mount plates one in each side gauge 14.
- 5 screens; 2 lateral, 1 at the front, 1 back and 1 superior.
- Access floor get in/out for cables and screwed cover packing.
- Door protection for heating resistance.
- Copper perforated plate 11/2X1/4X24 inches, Nockel finish with capacity 300A.
- Rear door microswitch support.
- Finished: Polyester electrostatic powder plain paint.
- Screens Automotive liquid paint mixed with ceramic microspheres with a thermal conductivity of 0.16w/m2/°C.
- Plain white color.

CODE	LINE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
4XAGC110.060.060	PCYM	110X60X60 cm	4X	FIELD	STAINLESS STEEL	CABINET

DISTRIBUTION AND CONTROL



CONTRACT MANUFACTURING

MOBILE SUBSTATION ENCLOSURE

DESCRIPTION

This mobile substation cabinet can be manufactured to keep a 500KVA, 750KVA or 100 KVA transformer. It allows them to be used for miner industry. The cabinet is manufactured for interior and exterior use, also as a user's protection.



CODE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
3RASM160.420.183	1600X4200X1830 mm	3R	DISTRIBUTION	CARBON STEEL	ENCLOSURE

COMPACT SUBSTATION ENCLOSURE 13.8 KV

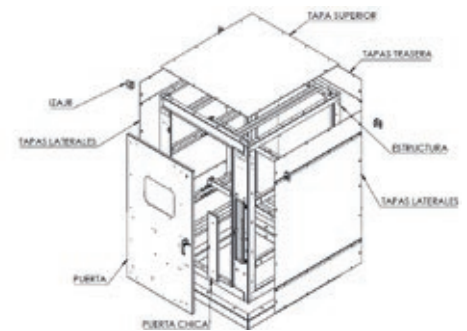
DESCRIPTION

This compact substation enclosure is designed to keep electrical distribution for medium tension. Manufactured for interior NEMA 1 and exterior NEMA 3R.

It is manufactured by modular cells which allow to fix for setting as per customer's requirements.

CHARACTERISTICS

- Gauges 12 and 14.
- 1 frontal door with a small shatterproof glass of 6mm.
- 3 point locking system plate with aluminum handle and a padlock holder.
- Galvanized steel hinges.
- Internal support mounting electrical equipment.
- Screwed side covers and back door.
- Finish: Polyester electrostatic powder paint.



CODE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
01ASM180.120.125	180X120X125 cm	1	MEASURE	CARBON STEEL	ENCLOSURE
3RASM180.120.125	180X120X125 cm	3R	MEASURE	CARBON STEEL	ENCLOSURE
01ASA180.120.125	180X120X125 cm	1	RUSH	CARBON STEEL	ENCLOSURE
3RASAS180.120.125	180X120X125 cm	3R	RUSH	CARBON STEEL	ENCLOSURE

N4 AND N4X ENCLOSURE

SENTINEL TYPE

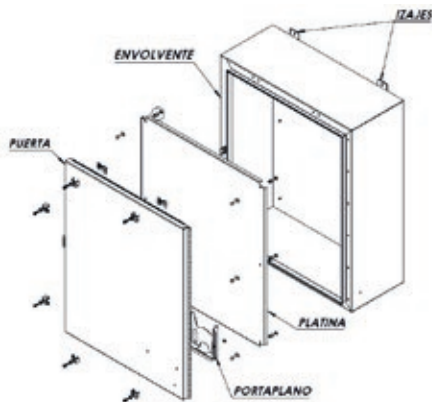


DESCRIPTION

These types of enclosures are used in the Industrial section in aggressive environments. They allow to integrate equipments with a guarantee protection.

CHARACTERISTICS

- Gauge 14.
- 1 Front door
- Closing system with 6 gag stainless steel screwed clips and hasp holders.
- Sliding Piano type hinges.
- 4 clamping hoists to mount on wall.
- Internal mounting plate.
- 1 document holder inside the door.
- Injected foam for door packing with UL certification.



ONLY FOR CARBON STEEL ENCLOSURES

- Finish: Polyester electrostatic powder paint.
- Light gray color 5 embossed.
- White plain mounting plate.

CODE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
04AGM091.076.030	91.4X76.2X30.4 cm	4	MEASURE	CARBON STEEL	ENCLOSURE
4XAGM091.076.030	91.4X76.2X30.4 cm	4X	MEASURE	CARBON STEEL 304	ENCLOSURE

METAL CLAD ENCLOSURE

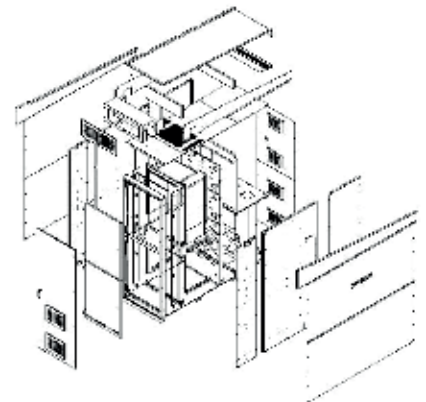
DESCRIPTION

The metal CLAD enclosure is designed for internal and external use in accordance of our customer's requirements.

It is manufactured in 3 different vertical sections which are assembled side by side in a modular form.

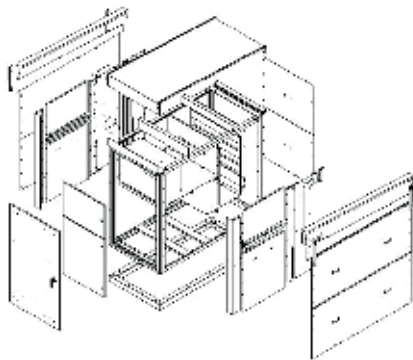
CHARACTERISTICS

- Gauge 12 y and 14.
- 1 main frontal door with a 3 points closing system.
- 2 internal doors with a closing system wing type of ¼" turn.
- Reinforced hinges with 120 inches opening tropicalized. 4 hoists.
- Front vent cap (just for Nema 3R).
- Screwed side covers with tesamol packing.
- Rear screwed covers with vents.
- Finish: Polyester electrostatic powder paint.
- Ogaz gray plain color.



CODE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
01AMC279.091.282	2794x913x2820 mm	1	DISTRIBUTION	CARBON STEEL	ENCLOSURE
3RAMC279.091.282	2794x913x2820 mm	3R	DISTRIBUTION	CARBON STEEL	ENCLOSURE

METAL ENCLOSED ENCLOSURE



DESCRIPTION

This enclosure metal Enclosed type is designed to be assembled in different combinations satisfying our user's needs.

It is manufactured for interior and exterior use.

CHARACTERISTICS

- Gauge 12 and 14.
- Screwed structure.
- Main door with 3 points lock (NEMA 3R).
Reinforced hinges with a 120° degrees opening.
- 2 front doors with closing lock 1/4" inches and double screwed key.
- Cap (Just for Nema 3R).
- Screwed side and back covers.
- Flip mount control white color drawer.
- Lifting ears: Finish: Polyester electrostatic powder paint.
- Light gray color 5 embossed.

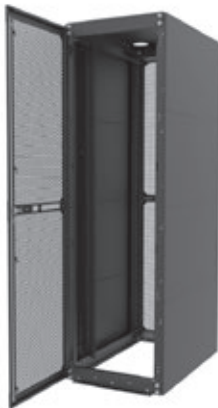
CODE	SIZE*	NEMA	TYPE	MATERIAL	CATEGORY
01AME180.096.211	1801x960x2115 mm	1	DISTRIBUTION	CARBON STEEL	ENCLOSURE
3RAME180.096.211	1801x960x2115 mm	3R	MEASURE	CARBON STEEL	ENCLOSURE

TELECOMMUNICATIONS AND NETWORKS



CONTRACT MANUFACTURING

48 UR FLOOR ENCLOSURE



DESCRIPTION

ALDODM TELECOMMUNICATION ENCLOSURES have 48 rack units, a front drilled door for the ventilation of the equipments in its interior.

It is designed for interior with controlled environment and manufactured with carbon steel structure gauge 14.

EIA-310D AND NEMA 1 RULES.

CHARACTERISTICS

- Carbon steel structure gauge 14.
- Carbon steel doors and side covers gauge 18.
- Adjustable 19 inches rials in depth.
- Floor and ceiling with access for cable.
- High levelers with heavy duty wheels.
- Black color RAL 9005.
- Includes 24 M6 screws.

FRONT DOOR	BACK DOOR
VENTILATE	VENTILATE
POLYCARBONATE	PLAIN
BLIND	DOUBLE
	BLIND
	PLAIN
	DOUBLE

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01AG48230.60.120	T1	48	2300X600X1200	CARBON STEEL	ENCLOSURE
01AG48230.80.120	T1	48	2300X800X1200	CARBON STEEL	ENCLOSURE

CODE	LINE	UR	SIZE*	TYPE	OPENING	MATERIAL	CATEGORY
01APV230.060.002	T1	48	2300X600	VENT	1	CARBON STEEL	DOOR
01APC230.060.002	T1	48	2300X600	BLIND	1	CARBON STEEL	DOOR
01APP230.060.002	T1	48	2300X600	POLYCARBONATE	1	CARBON STEEL	DOOR
01APVD230.60.002	T1	48	2300X600	VENT	2	CARBON STEEL	DOOR
01APCD230.60.002	T1	48	2300X600	BLIND	2	CARBON STEEL	DOOR

CODE	LINE	UR	SIZE*	TYPE	OPENING	MATERIAL	CATEGORY
01APV230.080.002	T1	48	2300X800	VENT	1	CARBON STEEL	DOOR
01APVC230.80.002	T1	48	2300X800	BLIND	1	CARBON STEEL	DOOR
01APP230.080.002	T1	48	2300X800	POLYCARBONATE	1	CARBON STEEL	DOOR
01APVD230.80.002	T1	48	2300X800	VENT	2	CARBON STEEL	DOOR
01APCD230.80.002	T1	48	2300X800	BLIND	2	CARBON STEEL	DOOR

* Measures: height x wide x deep

442 UR FLOOR ENCLOSURE

DESCRIPTION

ALCODM TELECOMMUNICATION enclosures have 42 UR.

Drilled front door, blind or polycarbonate window for a higher versatility in cost and accessibility.

Designed for interior with a controlled environments and manufactured with carbon steel structure gauge 12.

EIA-310D AND NEMA 1 STANDARDS.

CHARACTERISTICS

- Carbon steel structure gauge 14.
- Carbon steel doors and covers gauge 18.
- Adjustable 18 inches rails in depth.
- Floor and ceiling access for cable.
- High levelers and heavy duty wheels.
- Black color RAL 9005.
- Includes 24 M6 screws.



FRONTAL DOOR	VENT, PLAINM, DOUBLE, BLIND.
BACK DOOR	VENT, POLYCARBONATE, BLIND.

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01AG42200.80.080	T1	42	2000X800X800	CARBON STEEL	ENCLOSURE
01AG42200.80.120	T1	42	2000X800X1200	CARBON STEEL	ENCLOSURE
01AG42200.60.080	T1	42	2000X600X800	CARBON STEEL	ENCLOSURE
01AG42200.60.120	T1	42	2000X600X1200	CARBON STEEL	ENCLOSURE

CODE	LINE	UR	SIZE*	TYPE	APERTURA	MATERIAL	CATEGORY
01AMC279.091.282	T1	42	2000X600	VENT	1	CARBON STEEL	DOOR
3RAMC279.091.282	T1	42	2000X600	BLIND	1	CARBON STEEL	DOOR
01APP200.060.002	T1	42	2000X600	POLYCARBONATE	1	CARBON STEEL	DOOR
01APVD200.60.002	T1	42	2000X600	VENT	2	CARBON STEEL	DOOR
01APCD200.60.002	T1	42	2000X600	BLIND	2	CARBON STEEL	DOOR

CODE	LINE	UR	SIZE*	TYPE	APERTURA	MATERIAL	CATEGORY
01APV200.080.002	T1	42	2000X800	VENT	1	CARBON STEEL	DOOR
01APC200.080.002	T1	42	2000X800	BLIND	1	CARBON STEEL	DOOR
01APP200.080.002	T1	42	2000X800	POLYCARBONATE	1	CARBON STEEL	DOOR
01APVD200.80.002	T1	42	2000X800	VENT	2	CARBON STEEL	DOOR
01APCD200.80.002	T1	42	2000X800	BLIND	2	CARBON STEEL	DOOR

* Measures: height x wide x deep

22 UR WALL MOUNT ENCLOSURE



DESCRIPTION

ALCODM TELECOMMUNICATION enclosures have 42 UR.

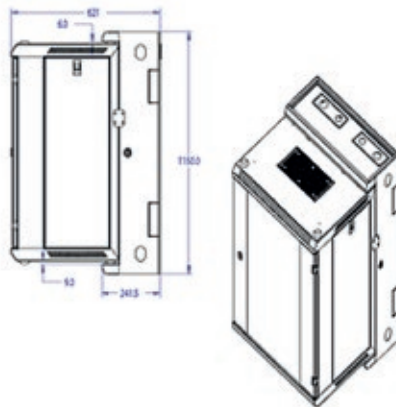
Drilled front door, blind or polycarbonate window for a higher versatility in cost and accessibility.

Designed for interior with a controlled environments and manufactured with carbon steel structure gauge 12.

EIA-310D AND NEMA 1 RULES.

CHARACTERISTICS

- Folded design.
- Carbon steel structure gauge 14.
- Carbon steel doors and side covers gauge 18.
- Adjustable 19 inches rials in depth.
- Floor and ceiling access for cable.
- Levelers with height an heavy duty wheels.
- Black color RAL 9005.



CODE	FRONT DOOR
01APV110.060.002	VENT
01APP110.060.002	POLYCARBONATE

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01AG22110.60.060	T1	22	1100X600X600	CARBON STEEL	ENCLOSURE
01AG22110.80.063	T1	22	1100X800X630	CARBON STEEL	ENCLOSURE

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01APV110.060.002	T1	22	1100X600X002	CARBON STEEL	DOOR
01APP110.060.002	T1	22	1100X600X002	CARBON STEEL	DOOR

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01APV110.080.002	T1	22	1100X800X002	CARBON STEEL	DOOR
01APP110.080.002	T1	22	1100X800X002	CARBON STEEL	DOOR

* Measures: height x wide x deep

24 UR FLOOR ENCLOSURE

DESCRIPTION

24 UR telecommunication enclosures are an ideal option for places where you require flexibility for TL environment.

These are designed for interiors with controlled environment and manufactured with carbon steel structure gauge 12.

EIA-310 D Y NEMA 1 rules.

CHARACTERISTICS

- Carbon steel structure gauge 14.
- Carbon steel doors and side covers gauge 18.
- Adjustable 19 inches rails en depth.
- Floor and ceiling access for cables
- Height levelers with heavy duty wheels.



FRONT DOOR	VENT, POLYCARBONATE.
BACK DOOR	VENT, BLIND.

CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01AG24120.60.080	T1	24	1200X600X002	CARBON STEEL	ENCLOSURE

CODE	LINE	UR	SIZE*	TYPE	OPENING	MATERIAL	CATEGORY
01APV120.060.002	T1	24	1200X060X002	VENT	1	CARBON STEEL	DOOR
01APC120.060.002	T1	24	1200X060X002	BLIND	1	CARBON STEEL	DOOR
01APP120.060.002	T1	24	1200X060X002	POLYCARBONATE	1	CARBON STEEL	DOOR

* Measures: Height x wide x deep

2 POLES DESKTOP RACKS 19"



DESCRIPTION

ALCODM open racks with 2 poles for desktops are ideal for T.I. that require mobility and installation requirements in limited spaces.

CHARACTERISTICS

- Carbon steel structure gauge 12.
- Black color RAL 9005.



CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01AR12058.50.032	T1	12	580X501X321	CARBON STEEL	RACK
01AR8041.50.032	T1	8	415X504X321	CARBON STEEL	RACK

* Measures: heightx wide x deep

2 POLES 45 UR CARBON STEEL RACKS

2 POLE RACKS 45 UR

CARBON STEEL

DESCRIPTION

ALCODM 2 Pole open racks are for T.I. with limited space. Manufactured in carbon steel adapting to your project's needs.

CHARACTERISTICS

- Carbon steel structure gauge 12.
- Anti-seismic reinforced carbon gauge 14.
- Black color RAL 9005.

2 POLE RACKS 45 UR

ALUMINUM

DESCRIPTIONS

ALCODM 2 pole open racks are ideal for T.I. with limited space. Manufactured in Aluminum adapting to your project's needs.

CHARACTERISTICS

- Structure gauge 12.
- Anti-seismic reinforced aluminum gauge 14.
- Black color RAL 9005.

2 POLE RACKS 24 UR

CARBON STEEL

DESCRIPTION

ALCODM 2 pole open racks 24 UR are ideal for T.I. with limited space. Manufactured in carbon steel adapting to your project's needs.

CHARACTERISTICS

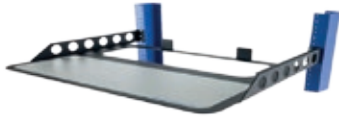
- Carbon steel structure gauge 12.
- Black color RAL 9005.



CODE	LINE	UR	SIZE*	MATERIAL	CATEGORY
01ARAL212.51.036	T1	45	2128X515X360	ALUMINUM	RACK
01ARAC212.51.036	T1	45	2128X515X360	CARBON STEEL	RACK
01ARAL122.51.036	T1	24	2128X515X360	ALUMINUM	RACK
01ARAC122.51.036	T1	24	2128X515X360	CARBON STEEL	RACK

* Measures: height x wide x deep

RACK TRAYS



DESCRIPTION

ALCODM accessories for enclosures and telecommunication racks are the perfect complement for a right development and implementation of your T.I. projects.

2 UR

- C19 inches fixed plain tray.
- 19 inches fixed vent tray.
- 19 inches plain sliding tray.
- 19 inches vent sliding tray.

4 POINTS

- 19 inches plain tray.
- 19 inches sliding plain tray.
- 19 inches vent sliding tray.

BLIND PANELS

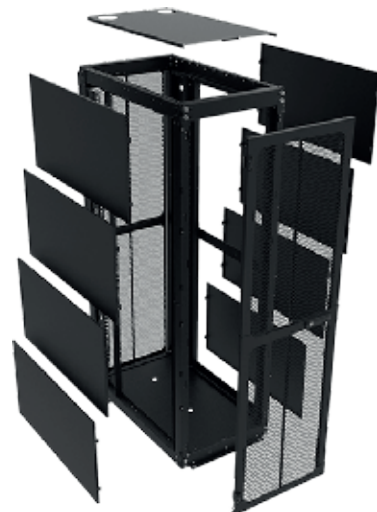
- 1 UR.
- 2 UR.
- 3 UR.
- 4 UR.
- 5 UR.
- 6 UR.
- 7 UR.
- 8 UR.
- 9 UR.
- 10 UR.
- 11 UR.
- 12 UR.

CODE	LINE	UR	DES	TYPE	FINISH	POINTS	CATEGORY
01ACFL08.048.040	T1	2	TRAY	FIXED	PLAIN	2	ACCESSORY
01ACFV08.048.040	T1	2	TRAY	FIXED	VENT	2	ACCESSORY
01ACDL08.048.040	T1	2	TRAY	SLIDING	PLAIN	2	ACCESSORY
01ACDV08.048.040	T1	2	TRAY	SLIDING	VENT	2	ACCESSORY
01ACFL08.048.000	T1	2	TRAY	FIXED	PLAIN	4	ACCESSORY
01ACDL08.048.000	T1	2	TRAY	SLIDING	PLAIN	4	ACCESSORY
01ACDV08.048.000	T1	2	TRAY	SLIDING	VENT	4	ACCESSORY
01AP1004.048.001	T1	1	PANEL			CS	ACCESSORY
01AP2008.048.001	T1	2	PANEL			CS	ACCESSORY
01AP3013.048.001	T1	3	PANEL			CS	ACCESSORY
01AP4017.048.001	T1	4	PANEL			CS	ACCESSORY
01AP5022.048.001	T1	5	PANEL			CS	ACCESSORY
01AP6026.048.001	T1	6	PANEL			CS	ACCESSORY
01AP7031.048.001	T1	7	PANEL			CS	ACCESSORY
01AP8035.048.001	T1	8	PANEL			CS	ACCESSORY
01AP9040.048.001	T1	9	PANEL			CS	ACCESSORY
01AP1044.048.001	T1	10	PANEL			CS	ACCESSORY
01AP1148.048.001	T1	11	PANEL			CS	ACCESSORY
01AP1253.048.001	T1	12	PANEL			CS	ACCESSORY

SIDE COVERS CHARACTERISTICS

- FULL 48 UR.
- HALF 48 UR.
- FULL 42 UR.
- HALF 42 UR.
- THIRD 42 UR.
- FULL 24 UR.
- HALF 24 UR.

CODE	LINE	UR	DES	TYPE	HEIGHT	CATEGORY
01AT48230.120.00	T1	48	COVER	FULL	48	ACCESSORY
01AT48115.120.00	T1	48	COVER	HALF	48	ACCESSORY
01AT48076.120.00	T1	48	COVER	THIRD	48	ACCESSORY
01AT48057.120.00	T1	48	COVER	FOURTH	48	ACCESSORY
01AT42200.120.00	T1	42	COVER	FULL	48	ACCESSORY
01AT42100.120.00	T1	42	COVER	HALF	48	ACCESSORY
01AT42066.120.00	T1	42	COVER	THIRD	48	ACCESSORY
01AT24120.080.00	T1	24	COVER	HALF	48	ACCESSORY
01AT24060.080.00	T1	24	COVER	FULL	48	ACCESSORY
01AT42200.080.00	T1	42	COVER	HALF	48	ACCESSORY
01AT42100.080.00	T1	42	COVER	THIRD	48	ACCESSORY



VERTICAL CABLE ORGANIZERS DESCRIPTION

Metallic spacers.

CHARACTERISTICS

- 22 UR PLAIN
- 22 UR DOUBLE
- 42 UR PLAIN
- 42 UR DOUBLE

HORIZONTAL CABLE ORGANIZERS DESCRIPTION

Metallic spacers.

CHARACTERISTICS

- 1 UR PLAIN
- 2 UR PLAIN
- 2 UR DOUBLE



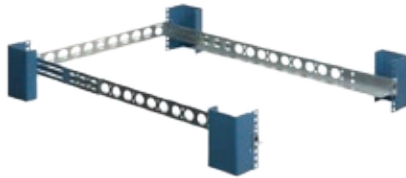
CODE	LINE	UR	SIZE*	MATERIAL	TYPE	CATEGORY
01AOVS42UR186.00	T1	42	ORGANIZER	VERTICAL	PLAIN	ACCESSORY
01AOVD42UR186.00	T1	42	ORGANIZER	VERTICAL	DOUBLE	ACCESSORY
01AOVS24UR106.00	T1	24	ORGANIZER	VERTICAL	PLAIN	ACCESSORY
01AOVD24UR106.00	T1	24	ORGANIZER	VERTICAL	DOUBLE	ACCESSORY
01AOHS2UR008.000	T1	2	ORGANIZER	HORIZONTAL	PLAIN	ACCESSORY
01AOHD2UR008.000	T1	2	ORGANIZER	HORIZONTAL	DOUBLE	ACCESSORY
01AOHS1UR004.000	T1	1	ORGANIZER	HORIZONTAL	PLAIN	ACCESSORY

MONITOR 4 UR BRACKET**CHARACTERISTICS**

- Monitor depth setting.
- Carbon steel gauge 16.

**SUPPORT RIALS****CHARACTERISTICS**

- 1 UR.
- 2 UR.
- 3 UR.



CODE	LINE	UR	SIZE*	MATERIAL	TYPE	CATEGORY
01ABMO17.048.000	T1	4	BRACKET	MONITOR	CARBON STEEL	ACCESSORY
01ARSG1UR004.000	T1	1	RIAL	FIXED	GALVANIZED	ACCESSORY
01ARSG2UR008.000	T1	2	RIAL	FIXED	GALVANIZED	ACCESSORY
01ARSG3UR013.000	T1	3	RIAL	FIXED	GALVANIZED	ACCESSORY

TECHNICAL DATA



NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)

This association was created as its name indicates National Electrical Manufacturers in USA. The purpose of this standard as the IP is to protect equipments when they are properly installed. The most common standards found in the specifications of the equipments are:

Nema	Description
1	1 Enclosures manufactured for interior use, its protection degree is enough to avoid people to accidentally have contact with the equipment in the interior and it also provides protection against dust in the environment.
2	Same as NEMA 1 but it also includes protection against leaking and slight splashing of liquids.
3	Manufactured enclosure for interior and exterior use, it provides a protection degree to avoid people having any accidental contact with interior equipment and to avoid dust, rain, wind. It must not present a breakdown with ice in the exterior.
3R	Same as NEMA 3 excluding protection against wind and dust.
3S	Interior and exterior manufactured enclosures, it provides a protection degree against people having accidental contact with the interior. IT avoid dust, rain, wind, snow.Its exterior mechanism should keep working even if they have ice formation.
4	Interior and exterior enclosures provides protection degree to people who have accidental contact with the equipment. Avoiding Dust in the environment , rain, snow wind, water falling directly. These won't present breakdowns in the exterior.
4X	Same as NEMA 4 but includes rust protection.
5	Enclosure built for indoor or outdoor use, provides a degree of protection so that personnel do not have accidental contact with the interior equipment, to avoid dust from the environment, blows of wind and dust, lint, fibers and protection against dripping and light splashing of liquids
6	Interior and exterior enclosure to protect people to get hurt in an accidental contact. To avoid environment dust, wind, water, falls directly. Could be merge under water until a limit. It must not present a breakdown with ice in the exterior.
6P	Same as NEMA 6 but includes a protection against water during a deep submersion.
7	Interior and exterior enclosures manufactured in locations classified as CLASS1, GROUPS A, B, C, and D and should be capable to support pression as a result of an explosion generated inside the enclosure. It should keep the heat generated by devices in the interior, in order that the heat generated in its area won't be capable of generating a gas explosion in the atmosphere. This enclosure should be tested against explosions, hidrostically and with a temperature support design.
9	Interior and exterior enclosure locations classified as CLASS 2 Groups E, F and G to avoid dust, . It should keep the heat generated by devices in the interior, in order that the heat generated in its area won't be capable of generating a gas explosion in the atmosphere. It must be tested against dust penetration, temperature support design and wear at the joints (if the are used).
12	Manufactured enclosures (without drills) for interior use, it provides protection degree to avoid people accidentally having contact with theinterior. It avoids environment dust , wind fluff , fibers and leaking and splashing of liquids.
12K	Same as NEMA 12 but includes drills.
13	Interior and exterior enclosures manufactured to provide protection degree so that people won't have accidental contact with the equipment in the interior. To avoid environment dust, water filtration or erosion and non erosion of refrigerated liquids.

NEMA VS IP

The following is a cross reference to compare IP and NEMA standards. This is an approximate comparison and it is responsibility of the user to verify the protection level for each use.

	IP23	IP30	IP32	IP55	IP64	IP65	IP66	IP67
NEMA 1	●							
NEMA 2		●						
NEMA 3					●			
NEMA 4							●	
NEMA 4X							●	
NEMA 6								●
NEMA 12				●		●		
NEMA 13						●		

MAIN OFFICE

Gómez Palacio, Durango.

Customer service

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Customer service

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BRANCH OFFICE

Monterrey, Nuevo León.

Customer service

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01152 8115 20 08 53

Cel. 8118 12 23 06

BRANCH OFFICE

Guadalajara, Jalisco.

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01152 33 31 62 08 75

Cel. 33 16 1260 22

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