

OUR STORY

Established in 1955 as a small 13 person operation, The EMF Company has been manufacturing custom sheet metal enclosures for over 65 years. Through decades of experience, we have taken on every aspect of the manufacturing process and greatly expanded our products and capabilities to meet the needs of our customers.

Our now 65,000 square ft facility includes in-house machining, forming, welding, assembly and powder coating. This allows EMF to offer a wide range of products for our customers and deliver consistent quality with efficient lead times.

In 2021, EMF joined the MUM Industries umbrella of brands, allowing us to further expand our capabilities and better serve our customers around the world.



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NEMA RATINGS & PROTECTION

An Enclosure is a surrounding case constructed to provide a degree of protection against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

NEMA TYPE 1 – Enclosures constructed for indoor use to provide a degree of protection to the equipment inside the enclosure against limited amounts of falling dirt.

NEMA TYPE 3R – Enclosures constructed for either indoor or outdoor use to provide a degree of protection against rain, sleet, wind-blown dust, and will remain undamaged by the external formation of ice on the enclosure. A small drain hole on the bottom allows for ventilation and quick dispersion of any water that may enter the enclosure.

NEMA TYPE 4 – Enclosures constructed for either indoor or outdoor use with a dust-tight, water-tight seal to protect against windblown particles, rain, splashing water and hose-directed water. Will remain undamaged by the external formation of ice on the enclosure.

NEMA TYPE 4X/IP66 – Enclosures constructed for either indoor or outdoor use with a dust-tight, water-tight seal to protect against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation. Plus, an additional level of protection against corrosion.

NEMA TYPE 12 – Enclosures constructed (without knockouts) for indoor use to provide a degree of protection against circulating dust or fibers, falling dirt and dripping non-corrosive liquids.

NEMA TYPE 12K – Enclosures constructed (with knockouts) for indoor use to provide a degree of protection against circulating dust or fibers, falling dirt and dripping non-corrosive liquids.

NEMA TYPE 13 – Enclosures constructed for indoor use to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolants.

NEMA ENCLOSURE RATINGS																
		INDOOR USE					OUTDOOR USE									
		Type 1	Type 2	Type 5	Type 5 12/12K	Type 13	Type 3	Type 3S	Type 3X	Type 3SX	Type 3R	TYPE 3RX	Type 4	Type 4X	Type 6	Type 6P
SOLIDS	INCIDENTAL CONTACT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FALLING DIRT	●	●		●	●	●	●	●	●	●	●	●	●	●	●
	CIRCULATING DUST				●	●							●	●	●	●
	SETTLING AIRBORNE DUST			●	●	●							●	●	●	●
	WINDBLOWN DUST						●	●	●	●			●	●	●	●
LIQUIDS	LIGHT SPLASH		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HOSEDOWN & SPLASH												●	●	●	●
	TEMPORARY SUBMERSION														●	●
	PROLONGED SUBMERSION															●
	RAIN, SNOW & SLEET						●	●	●	●	●	●	●	●	●	●
	ICE LADEN							●		●						
CHEMICALS	OIL & COOLANT SEEPAGE				●	●										
	OIL & COOLANT SPLASH					●										
	CORROSION								●	●		●		●		●
Comparable IP Rating		IP 20	IP 22	IP 53	IP 54		IP 55				IP 24		IP 66		IP 67	IP 68

A close-up photograph of laboratory glassware, including several Erlenmeyer flasks and beakers containing a clear liquid, positioned on a lab bench. The image is partially obscured by a white diagonal line that separates it from the teal background on the right.

WALL MOUNT ENCLOSURES

Our NEMA rated wall mount enclosures are designed to meet your specific needs and protect components in a wide range of environments. Choose from multiple door styles and latching options.

POPULAR APPLICATIONS

- Food Production & Packaging
- Chemical Mixing
- Pharmaceutical
- Crane control systems
- Water Treatment



One Door Type 1



PART NUMBERS ON PAGE 29



CSA - UL/cUL Listed, IEC 60529, IP10

Standard Specifications

- 14 gauge steel
- Spot welded/skip welded construction
- Polyurethane gasket to soften door closing
- Continuous hinge with stainless steel pin
- Slotted quarter turn latch
- Mounting holes in back of enclosure
- Collar studs and mounting panel included
- Grounding stud on door

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Three-Point
Latches



Window Kits

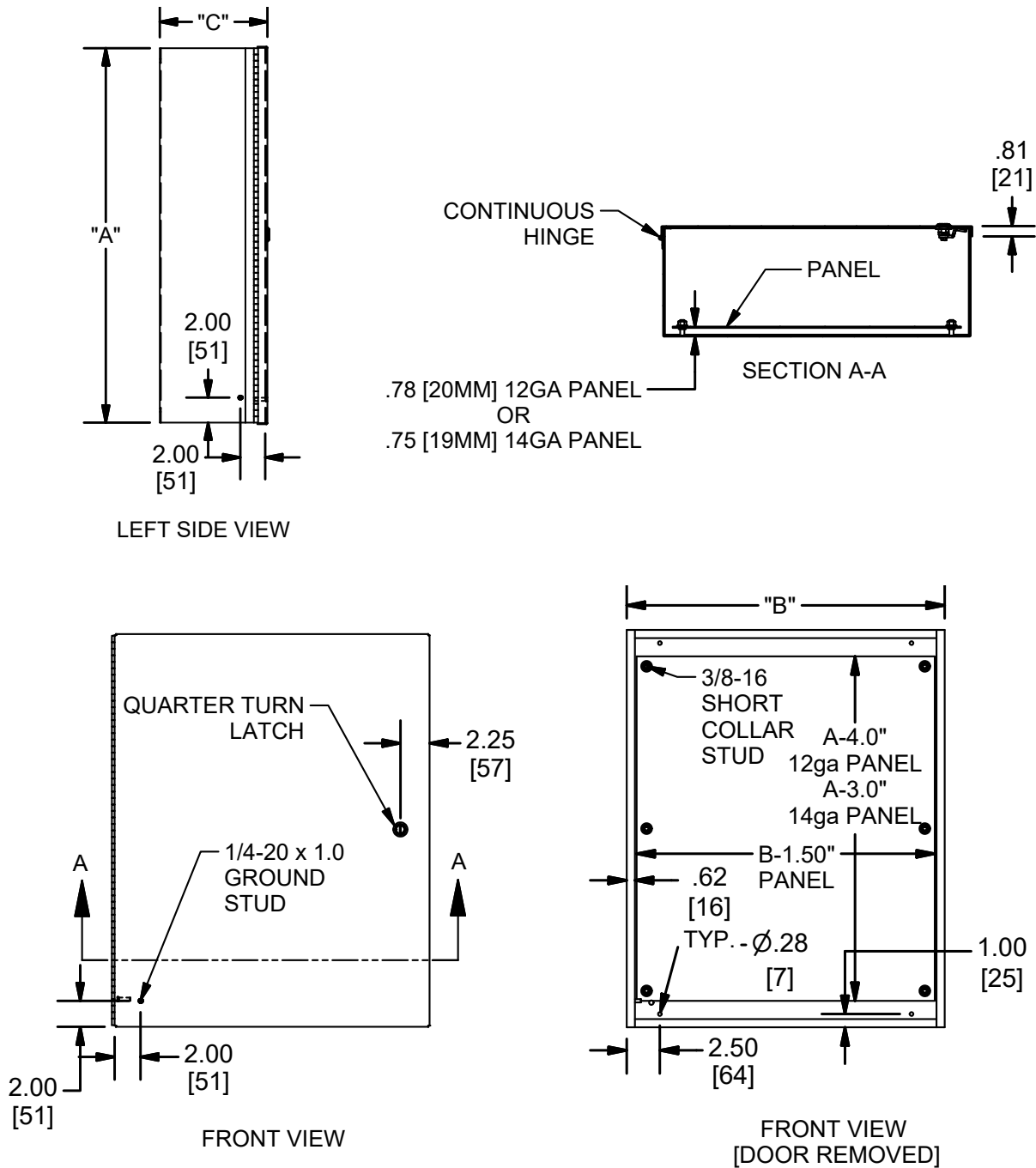


Louvers



Key Locking
Quarter Turn Latch

One Door Type 1



14 GA. Panel (A-3") x (B-1.50") WHEN A ≤ 24" & B < 24" OR A < 24" & B ≤ 24"
 12 GA. Panel (A-3") x (B-1.50") WHEN A = 24" & B = 24"
 12 GA. Panel (A-4") x (B-1.50") WHEN A > 24" & B > 24"

For more information and detailed drawing files, visit www.emfcompany.com

Extra Large Type 1



Standard Specifications

- 14-gauge steel
- Spot welded/skip welded construction
- Polyurethane gasket to soften door closing
- Continuous hinge with stainless steel pin
- Quarter turn locking handle
- Mounting feet on top and bottom
- 3/8-16 collar studs and mounting panel included
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"

PART NUMBERS ON PAGE 29



CSA - UL/cUL Listed, IEC 60529, IP10

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits



Louvers



Key Locking
Quarter Turn Latch

Technical drawings of the 1000 Series Enclosure showing the Left View, Front View, and Section A-A.

Left View: Shows the side profile of the enclosure. Dimensions include overall height "A", overall width "C", and a mounting foot dimension of 2.00 [51]. A continuous hinge is indicated on the left side.

Front View: Shows the front of the enclosure with the door closed. Dimensions include overall height "A", overall width "B + .25", and a mounting foot dimension of 2.00 [51]. The door is shown with a door brace and a 1/4-20 X 1.0 ground stud. The door height is labeled A + .25".

Front View Door Removed: Shows the front of the enclosure with the door removed. Dimensions include overall height "A", overall width "B", and a mounting foot dimension of 3.00 [76]. The door opening is labeled A - 3.0" PANEL. The door brace is shown with a dimension of .62 [16]. The body brace is shown with a dimension of 1.50 [38]. The door height is labeled B - 3.0" PANEL. The door is shown with a door brace and a 1/4-20 X 1.0 ground stud. The door height is labeled A + .25".

Section A-A: A cross-section view of the enclosure. Dimensions include overall height "A", overall width "C", and a mounting foot dimension of 2.00 [51]. The door is shown with a door brace and a 1/4-20 X 1.0 ground stud. The door height is labeled A + .25". The door is shown with a door brace and a 1/4-20 X 1.0 ground stud. The door height is labeled A + .25".

Section B-B: A cross-section view of the enclosure. Dimensions include overall height "A", overall width "B", and a mounting foot dimension of 3.00 [76]. The door opening is labeled A - 3.0" PANEL. The door brace is shown with a dimension of .62 [16]. The body brace is shown with a dimension of 1.50 [38]. The door is shown with a door brace and a 1/4-20 X 1.0 ground stud. The door height is labeled A + .25".

Notes:

- OMIT CENTER STUDS IF B < 30"
- OMIT CENTER STUDS IF A < 30"
- OMIT BODY BRACE WHEN A & B < 30"
- OMIT BODY BRACE WHEN B < 31"

3

One Door Type 3R



Standard Specifications

- 14 or 16 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Captivated screws hold door closed
- Pad lockable hasp and staple
- Mounting feet on top and bottom
- 3/8-16 collar studs or tap pads for mounting panel
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"
- Drip shield across top edge

PART NUMBERS ON PAGE 29



CSA - UL/cUL Listed, IEC 60529, IP14

Finish

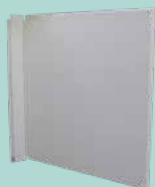
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



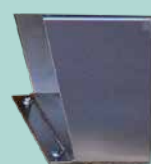
Swing Out Panels



Window Kits

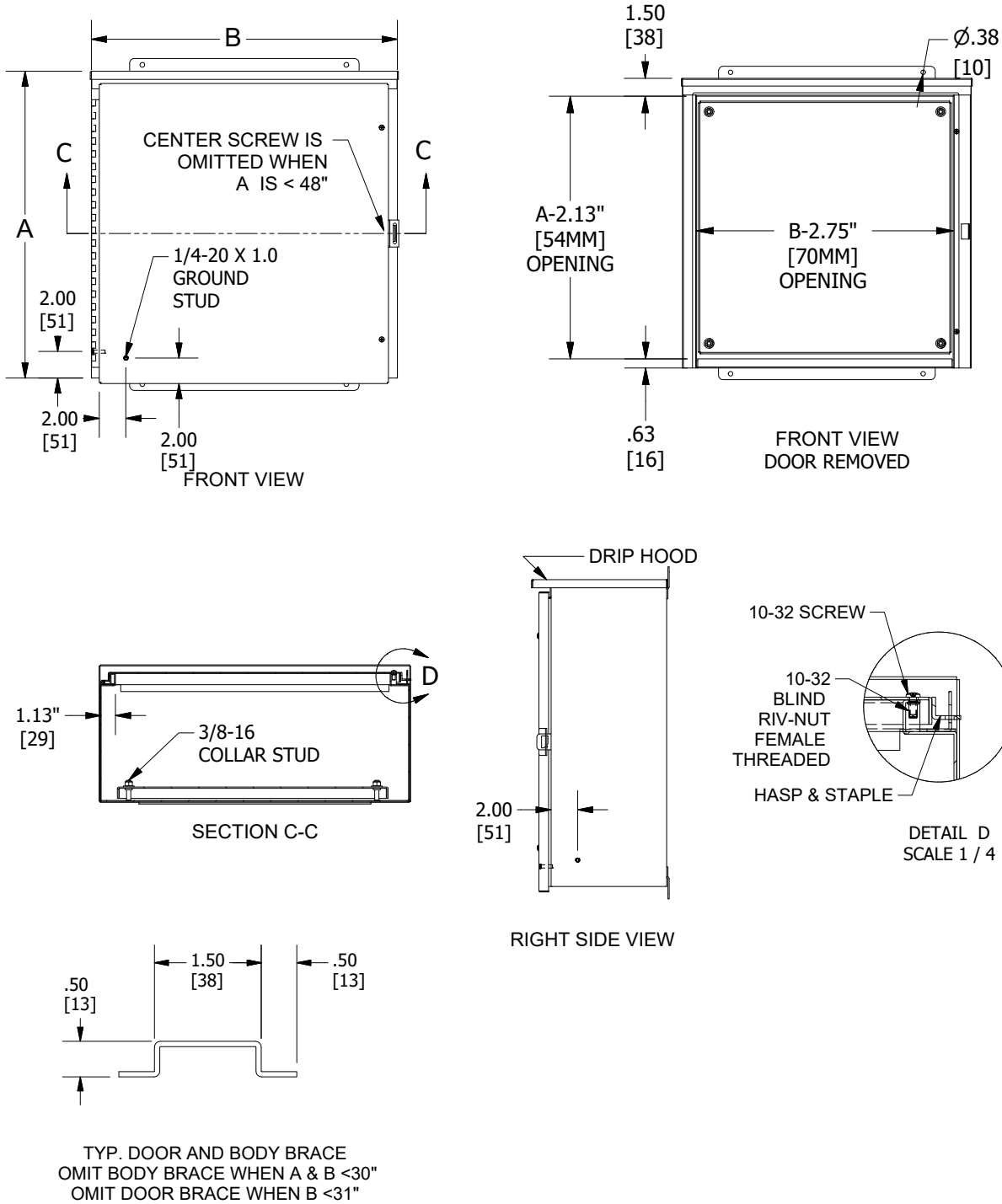


Louvers



Floor Stand Kit

One Door Type 3R



For more information and detailed drawing files, visit www.emfcompany.com

One Door Type 4/4x



PART NUMBERS ON PAGE 30



CSA - UL/cUL Listed, IEC 60529, IP66

Standard Specifications

- 14 or 16 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Return flange around all sides of door opening
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Stainless steel door clamps
- Mounting feet on top and bottom
- 3/8-16 collar studs for mounting panels
- Ground stud on door
- Stiffeners added to enclosure sizes over 30"

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Floor Stand Kits



Window Kits

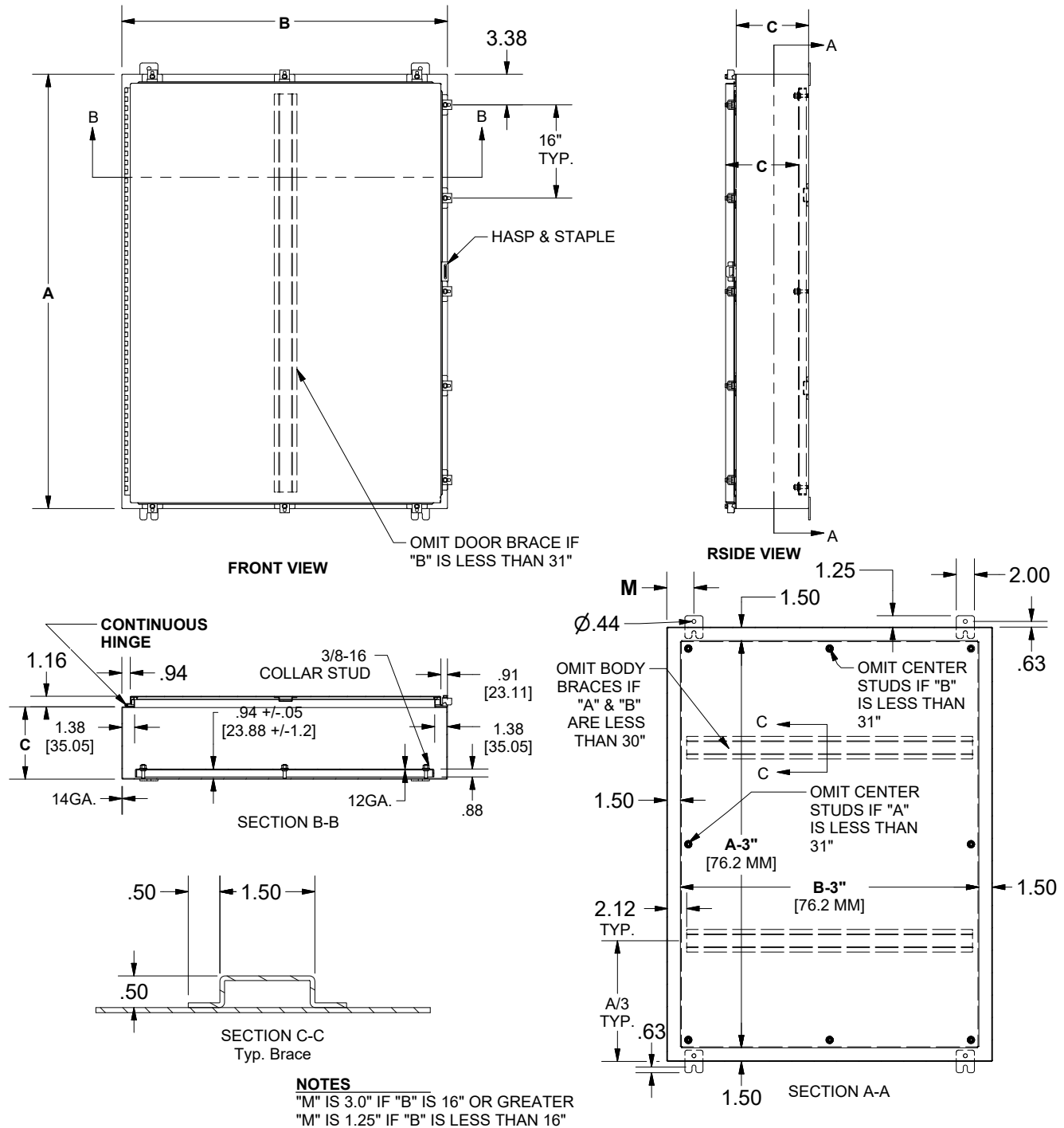


Louvers



Insulation

One Door Type 4/4x



For more information and detailed drawing files, visit www.emfcompany.com

Two Door Type 4/4x



Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Return flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on Steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Stainless steel door clamps
- Mounting feet on top and bottom
- 3/8-16 collar studs for mounting panels
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"
- Removable center post

PART NUMBERS ON PAGE 30



CSA - UL/cUL Listed, IEC 60529, IP66

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Floor Stand Kits



Window Kits

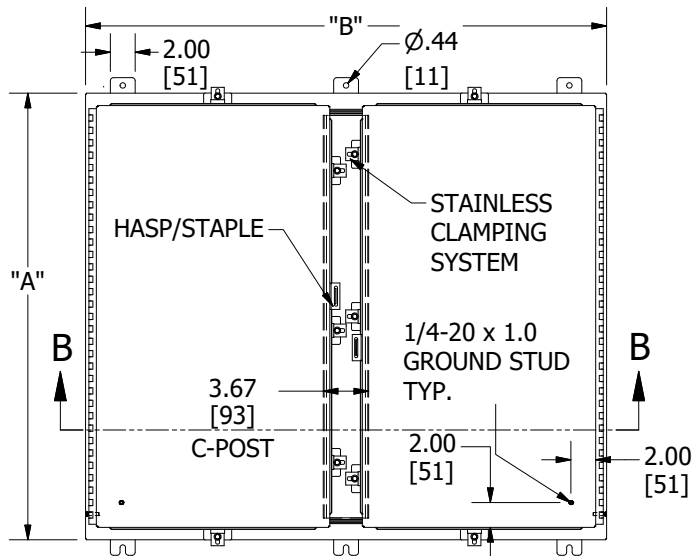


Louvers

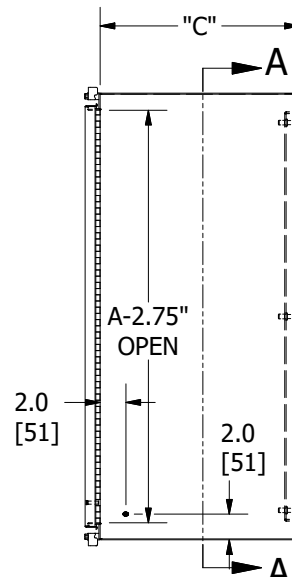


Insulation

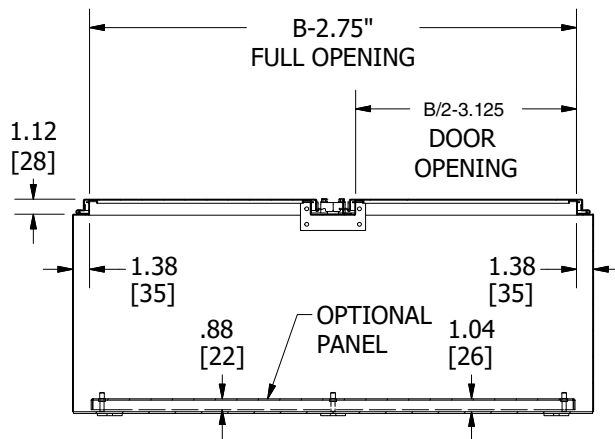
Two Door Type 4/4x



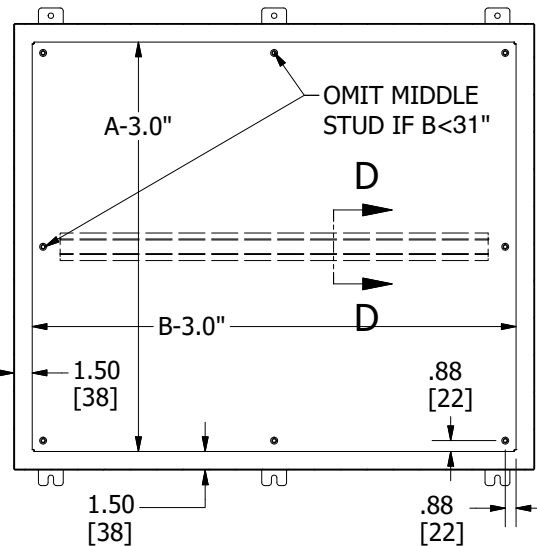
FRONT VIEW



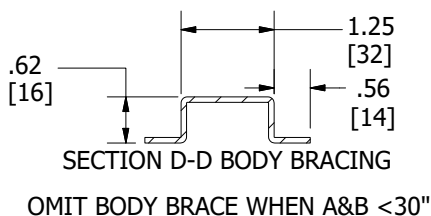
R-SIDE VIEW



SECTION B-B



SECTION A-A



SECTION D-D BODY BRACING

OMIT BODY BRACE WHEN A & B < 30"

For more information and detailed drawing files, visit www.emfcompany.com

One Door Strongbox Type 4x



CSA - UL/cUL Listed, IEC 60529, IP66

Standard Specifications

- 304 Stainless Steel with #4 brush finish
- Chemical, Corrosion & Hose-down resistant
- Removable Pin Hinge
- Slotted Quarter-Turn Latch
- Panel Standoffs for optional back panel
- Grounding Stud on door & body
- Return flange around all sides of door face
- Hydrophobic FIP urethane gasket
- Rivet nuts in back of enclosure
- Bolt-on mounting tabs provided

Available For Quick Ship!

Standard Strongbox Nema 4x enclosures are pre-built and ready to ship. These enclosures cannot be modified. See page 16 for available sizes.

Finish

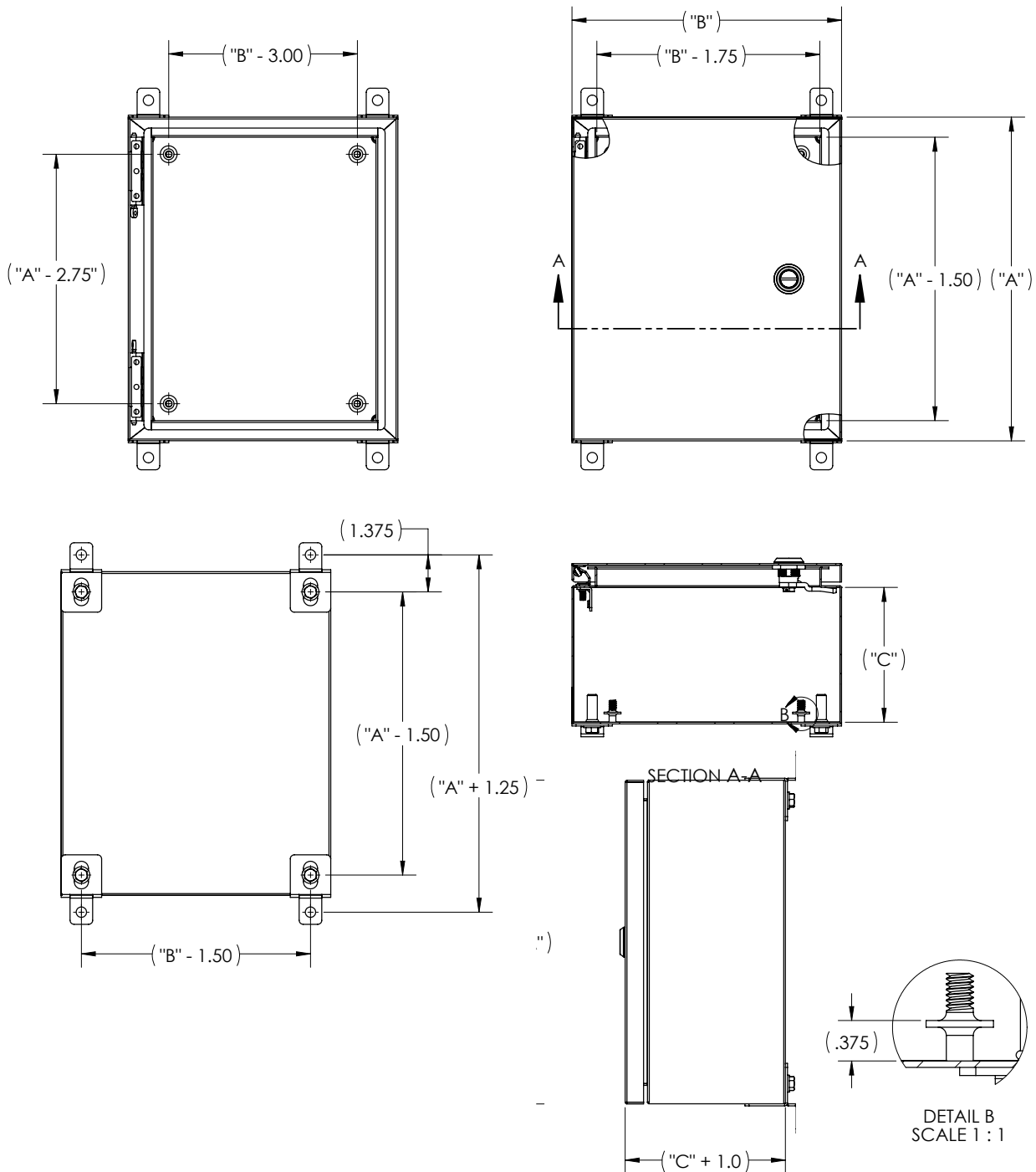
Strongbox 4x standard enclosures only available in stainless steel

- Brushed & blended finish for stainless steel enclosures

Strongbox Standard Type 4x

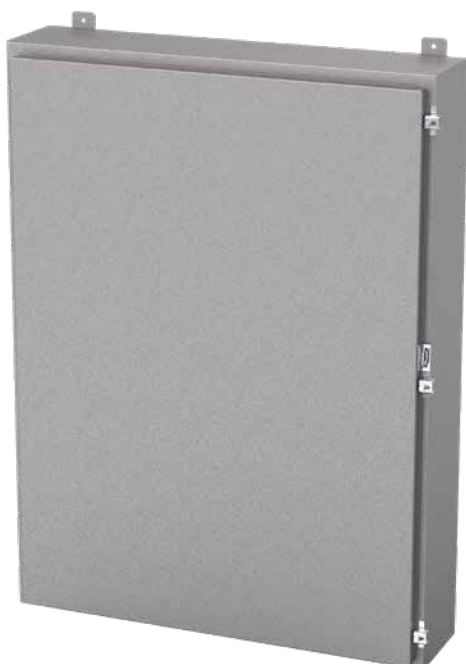
Stainless Steel 304 Part #	Dimensions (in)	Dimensions (mm)	Material Thickness Cover & Base	Shipping (lbs)	Optional Panel Part #	Panel Size A x B (in)
W100804-4PQ-BT	10 x 8 x 4	8"	16 Gauge (.060 in.)*	6	PNLB1008GVN	8 x 6
W100806-4PQ-BT	10 x 8 x 6	8"	16 Gauge (.060 in.)*	7	PNLB1008GVN	8 x 6
W121004-4PQ-BT	12 x 10 x 4	10"	16 Gauge (.060 in.)*	8	PNLB1210GVN	10 x 8
W121006-4PQ-BT	12 x 10 x 6	10"	16 Gauge (.060 in.)*	10	PNLB1210GVN	10 x 8
W141206-4PQ-BT	14 x 12 x 6	12"	16 Gauge (.060 in.)*	12	PNLB1412GVN	12 x 10
W201608-4PQ-BT	20 x 16 x 8	16"	16 Gauge (.060 in.)*	23	PNLB2016GVN	18 x 14
W202008-4PQ-BT	20 x 20 x 8	20"	16 Gauge (.060 in.)*	27	PNLB2020GVN	18 x 18
W202010-4PQ-BT	20 x 20 x 10	20"	14 Gauge (.075 in.)*	37	PNLB2020GVN	18 x 18
W242008-4PQ-BT	24 x 20 x 8	20"	16 Gauge (.060 in.)*	31	PNLB2420GVN	22 x 18
W242010-4PQ-BT	24 x 20 x 10	20"	14 Gauge (.075 in.)*	42	PNLB2420GVN	22 x 18
W242408-4PQ-BT	24 x 24 x 8	24"	16 Gauge (.060 in.)*	35	PNLB2424GVN	22 x 22
W242410-4PQ-BT	24 x 24 x 10	24"	14 Gauge (.075 in.)*	48	PNLB2424GVN	22 x 22
W302410-4PQ-BT	30 x 24 x 10	24"	14 Gauge (.075 in.)*	58	PNLB3024GVN	28 x 22
W302412-4PQ-BT	30 x 24 x 12	24"	14 Gauge (.075 in.)*	62	PNLB3024GVN	28 x 22
W363012-4PQ-BT	36 x 30 x 12	30"	14 Gauge (.075 in.)*	85	PNLB3630GVN	34 x 28

One Door Strongbox Type 4x



For more information and detailed drawing files, visit www.emfcompany.com

One Door Type 12



Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on Steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS Models)
- Zinc plated door clamps
- Pad lockable hasp and staple
- Mounting feet on top and bottom
- 3/8-16 collar studs for mounting panels
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"

PART NUMBERS ON PAGE 31



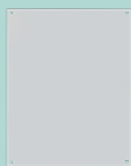
CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Number 4 brushed and blended finish for all Stainless Steel and Aluminum
- ANSI 61 gray powder coating outside, white powder coat inside for Carbon Steel enclosures
- Ask about custom powder coating color options!

Popular Add-Ons



Sub Panels



Three-Point Latch



Window Kits



Louvers



Key Locking Quarter Turn Latch

Two Door Type 12



Standard Specifications

- 14 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on all SS models)
- Three-point key locking handle
- Mounting feet on top and bottom
- 3/8-16 collar studs for mounting panels
- Grounding stud on door
- Larger enclosures use 12/10 gauge steel and stiffeners on back
- Overlapping doors with right door as master

PART NUMBERS ON PAGE 31



Finish

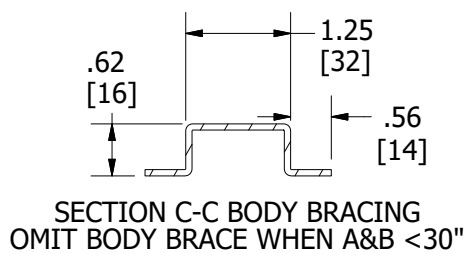
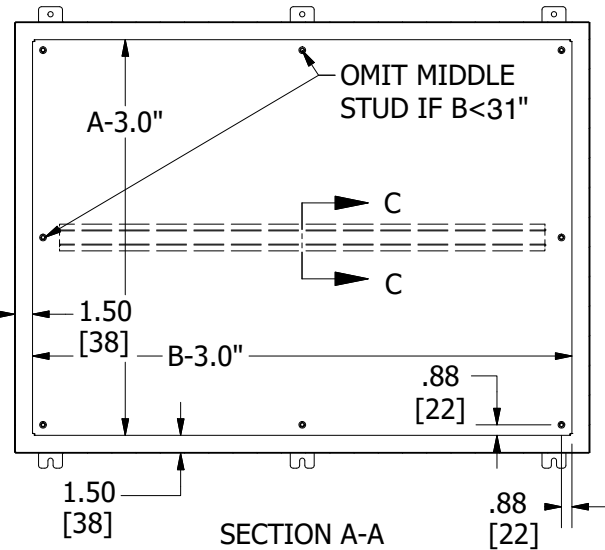
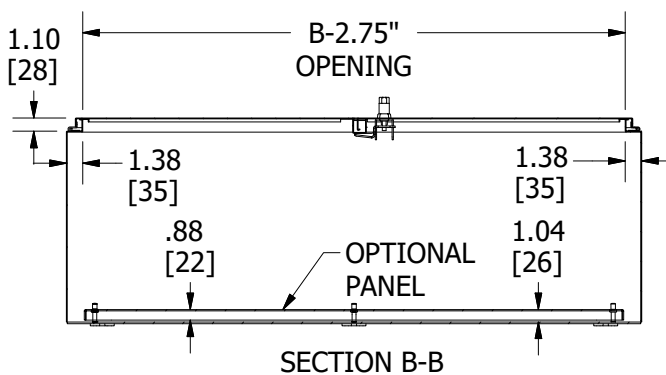
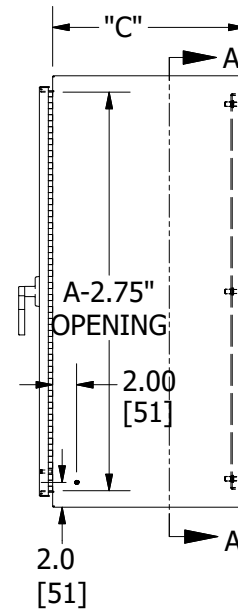
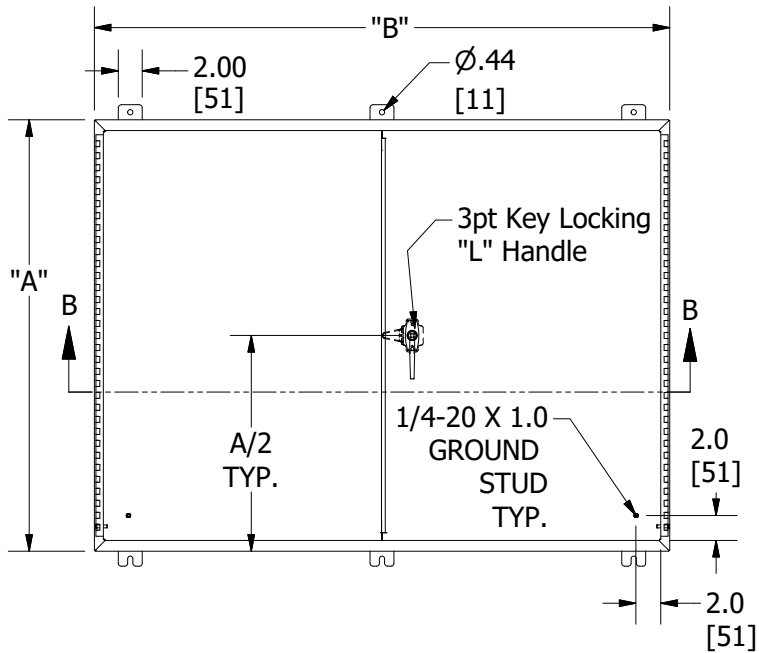
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Number 4 brushed and blended finish for all Stainless Steel and Aluminum
- ANSI 61 gray powder coating outside, white powder coat inside for Carbon Steel enclosures
- Ask about custom powder coating color options!

Popular Add-Ons



Two Door Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Flushmount Type 12



PART NUMBERS ON PAGE 32



Standard Specifications

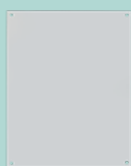
- 14 gauge steel enclosure, 12 gauge steel flange
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin
- Captivated screws hold door closed
- Pad lockable hasp
- Mounting holes on flange
- 3/8-16 collar studs for mounting panels
- Grounding stud on door

Finish

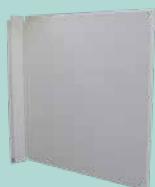
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

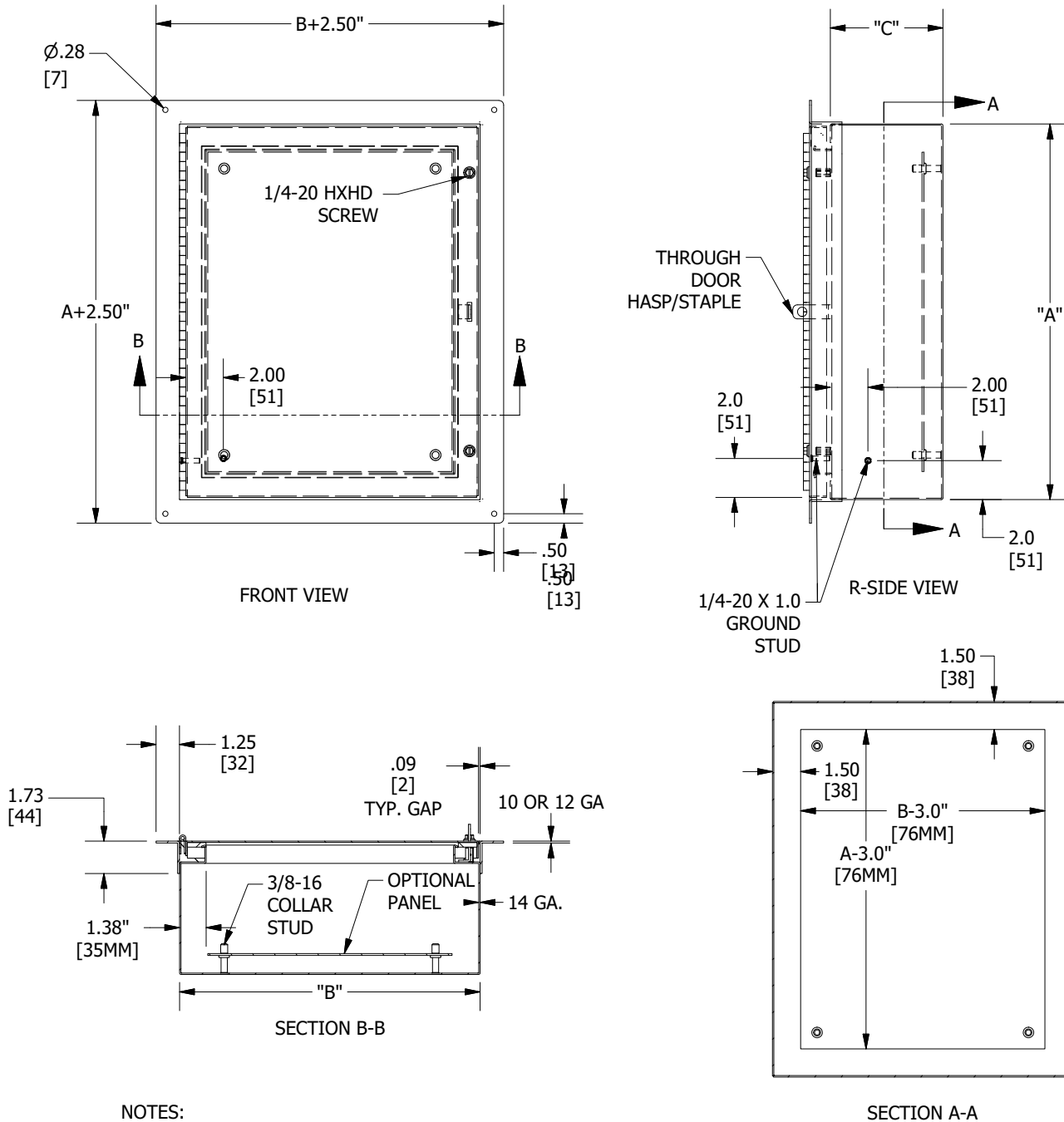


Louvers



Key Locking
Quarter Turn Latch

Flushmount Type 12



NOTES:

1. BODY BRACE REQUIRED WHEN $A \text{ \& } B > 30"$ [762MM]
2. DOOR BRACE REQUIRED WHEN $B > 30"$ [762MM]
3. PANELS TYPICALLY 12GA, AND HAVE FLANGES WHEN $> 21"$
4. CENTER STUD REQUIRED IF A or $B > 30"$
5. Addn'l Flange Mtg Hole If $"A"$ or $"B"$ $> 30"$

For more information and detailed drawing files, visit www.emfcompany.com

One Door New Generation Type 12/12X



PART NUMBERS ON PAGE 32



Standard Specifications

- 14 or 16 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Door mounted flush with body
- Stainless steel removable pin hinges
- Mounting feet on top and bottom
- Slotted quarter turn latch
- 3/8-16 collar studs for mounting panels
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"

Finish

*All enclosures can be formed out of
Stainless Steel, Aluminum, or Carbon Steel*

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating outside, white powder coating inside for Stainless Steel enclosures
- Ask about custom powder coating color options!

Popular Add-Ons



Sub Panels



Three-Point
Latch



Window Kits

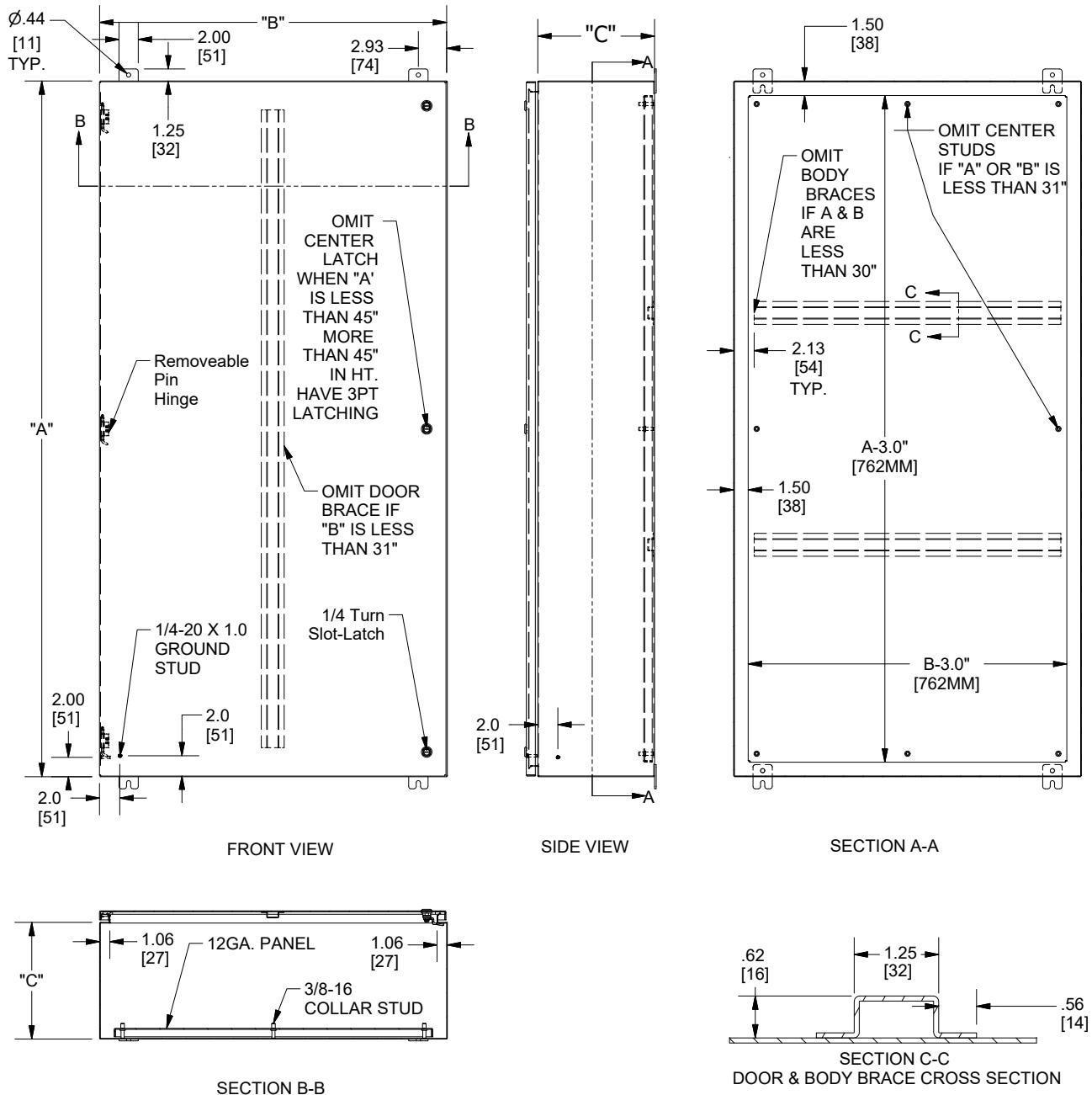


Louvers



Key Locking
Quarter Turn Latch

One Door New Generation Type 12/12X



"A" Dimension is Hinged Side

For more information and detailed drawing files, visit www.emfcompany.com

One Door Panel Spec Type 12



PART NUMBERS ON PAGE 33



CSA - UL/cUL Listed, IEC 60529, IP52

* Available with NEMA 4/4X protection rating. Contact factory for details.

Standard Specifications

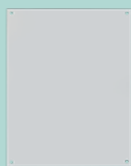
- 14 or 16 gauge steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Flush mounted door with 170° opening
- Removable pin hinges
- Flush slotted quarter turn latches (3-point flush slotted latching for 40" or taller)
- 5/16-18 collar studs for mounting panels
- 10-32 grounding stud on door
- Door bars

Finish

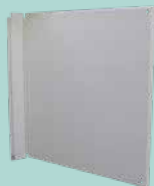
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



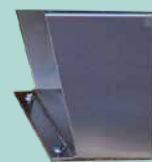
Swing Out Panels



Window Kits

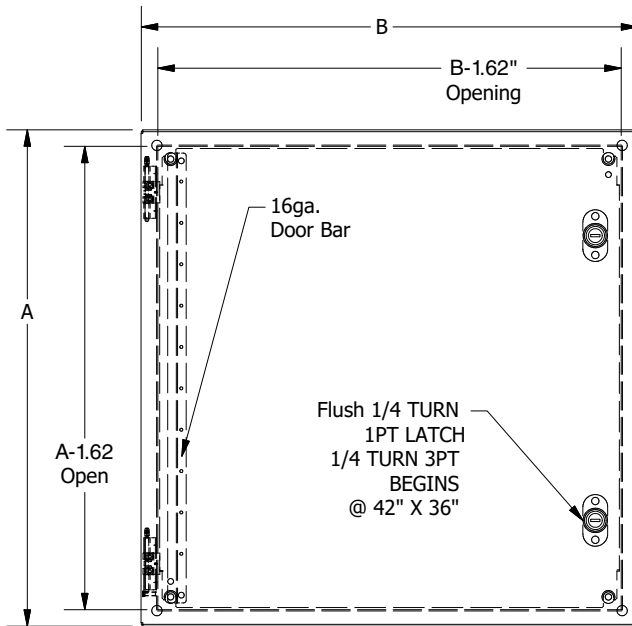


Louvers

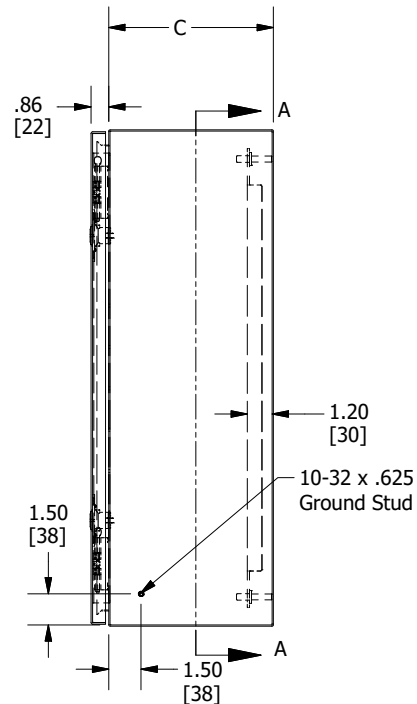


Floor Stand Kit

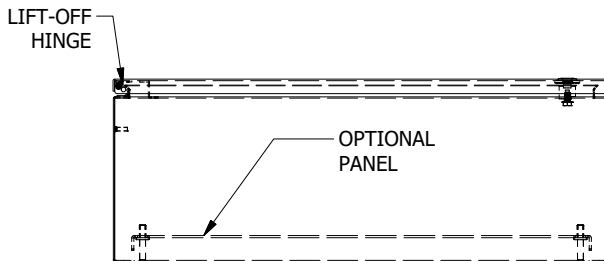
One Door Panel Spec Type 12



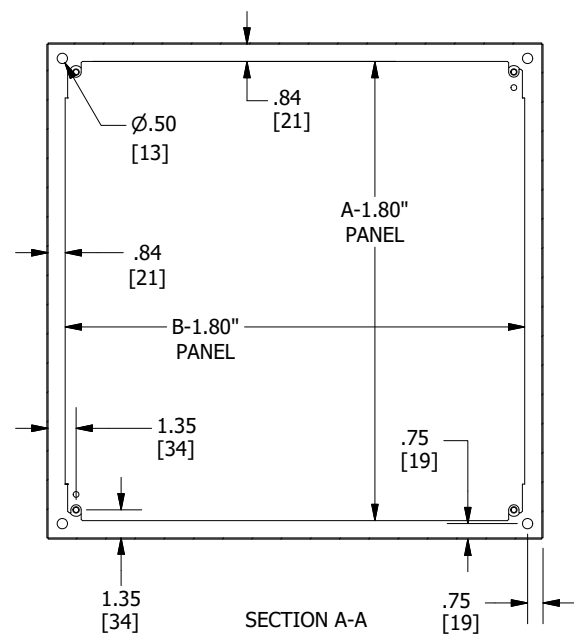
FRONT VIEW



RIGHT VIEW



BOTTOM VIEW



SECTION A-A

For more information and detailed drawing files, visit www.emfcompany.com

Two Door Panel Spec Type 12



Standard Specifications

- 14 or 16 gauge steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Overlapping doors with 170° opening
- Removable pin hinges
- Three-point flush slotted quarter turn latches
- 5/16-18 collar studs for mounting panels
- 10-32 grounding stud on door
- Door bars

PART NUMBERS ON PAGE 33



CSA - UL/cUL Listed, IEC 60529, IP52

* Available with NEMA 4/4X protection rating. Contact factory for details.

Finish

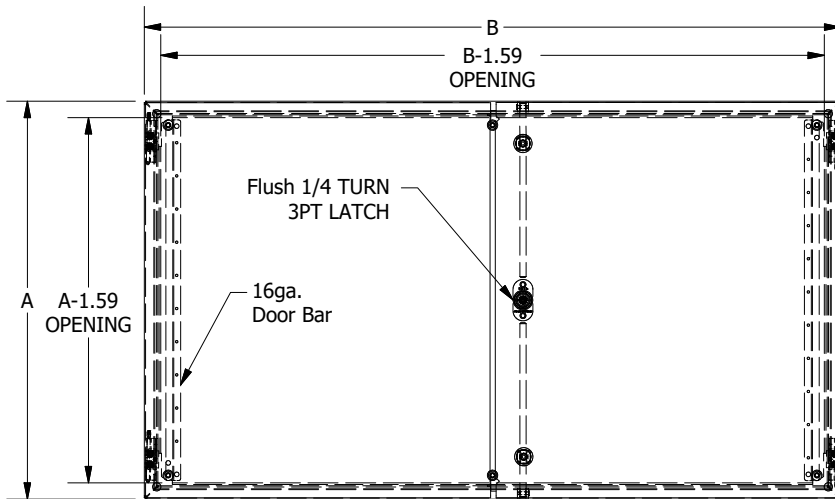
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

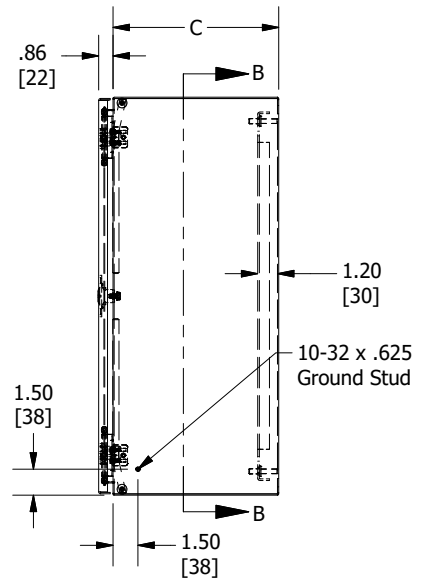
Popular Add-Ons



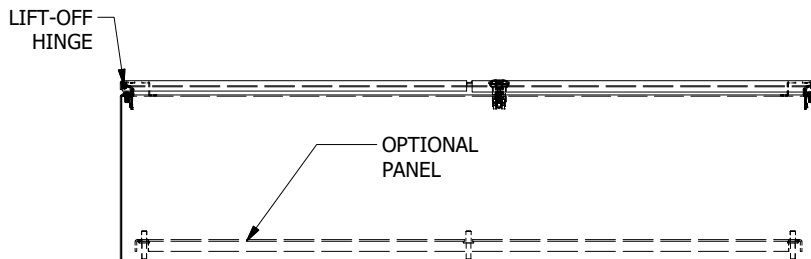
Two Door Panel Spec Type 12



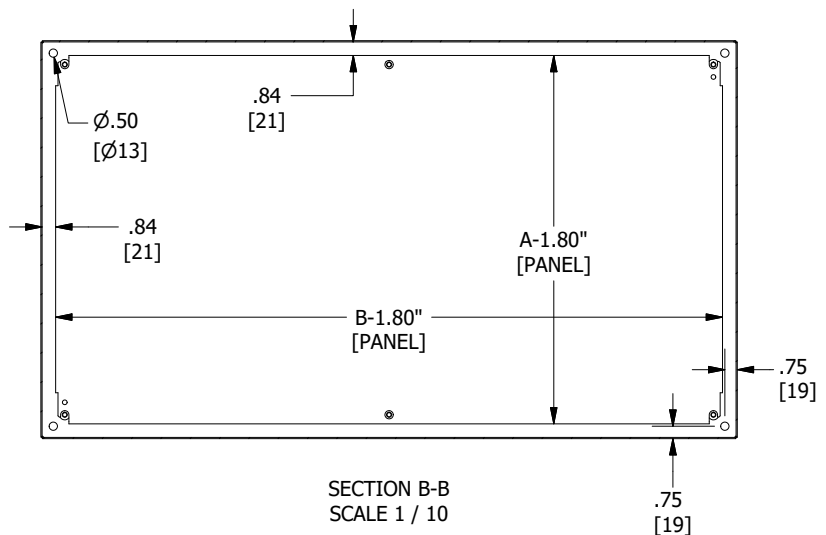
FRONT VIEW



RIGHT VIEW



BOTTOM VIEW



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Type 1

Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
A-1612N7	16 x 12 x 6	406 x 305 x 168	21	A-1612P	13 x 10
A-1616N7	16 x 16 x 6	406 x 406 x 168	27	A-1616P	13 x 14
A-1620N7	16 x 20 x 6	406 x 508 x 168	31	A-2016P	17 x 14
A-2016N9	20 x 16 x 8	508 x 406 x 219	35	A-2016P	17 x 14
A-2420N9	24 x 24 x 8	610 x 508 x 219	48	A-2420P	21 x 18
A-3024N11	30 x 24 x 10	762 x 610 x 270	57	A-3024P	26 x 22
A-3630N11	36 x 30 x 10	914 x 762 x 270	78	A-3630P	32 x 28
A-2424N13	24 x 24 x 12	610 x 610 x 321	52	A-2424P	21 x 22
A-3024N13	30 x 24 x 12	762 x 610 x 321	61	A-3024P	26 x 22
A-3630N13	36 x 30 x 12	914 x 762 x 321	83	A-3630P	32 x 28

Extra Large Type 1

Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
A-4230N9	42 x 30 x 9	1067 x 762 x 229	96	E-4230P	39 x 27
A-4236N9	42 x 36 x 9	1067 x 914 x 229	103	E-4230P	39 x 27
A-4836N9	48 x 36 x 9	1219 x 914 x 229	112	E-4836P	45 x 33
A-4230N11	42 x 30 x 11	1067 x 762 x 279	119	E-4230P	39 x 27
A-4236N11	42 x 36 x 11	1067 x 914 x 279	127	E-4230P	39 x 27
A-4836N11	48 x 36 x 11	1219 x 914 x 279	135	E-4836P	45 x 33
A-4836N17	48 x 36 x 17	1219 x 914 x 432	160	E-4836P	45 x 33

One Door Type 3R

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
B-161206SSHCR	B-161206HCR	16 x 12 x 6	406 x 305 x 152	23	E-1612P	13 x 9
B-161606SSHCR	B-161606HCR	16 x 16 x 6	406 x 406 x 152	28	E-1616P	13 x 13
B-362406SSHCR	B-362406HCR	36 x 24 x 6	914 x 610 x 152	68	E-3624P	33 x 21
B-161608SSHCR	B-161608HCR	16 x 16 x 8	406 x 406 x 203	32	E-1616P	13 x 13
B-603608SSHCR	B-603608HCR	60 x 36 x 8	1524 x 914 x 203	161	E-6036P	57 x 33
B-201610SSHCR	B-201610HCR	20 x 16 x 10	508 x 305 x 254	39	E-2016P	17 x 13
B-161212SSHCR	B-161212HCR	16 x 12 x 12	406 x 305 x 305	24	E-1612P	13 x 9
B-242412SSHCR	B-242412HCR	24 x 24 x 12	610 x 610 x 305	62	E-2424P	21 x 21
B-483616SSHCR	B-483616HCR	48 x 36 x 16	1219 x 914 x 406	165	E-4826P	45 x 33
B-603616SSHCR	B-603616HCR	60 x 36 x 16	1524 x 914 x 406	196	E-6036P	57 x 33

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Type 4/4x

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F-161206N4X-SS	F-161206N4X-316SS	F-161206N4	16 x 12 x 6	406 x 305 x 152	23	E-1612P	13 x 9
F-161208N4X-SS	F-161208N4X-316SS	F-161208N4	16 x 12 x 8	406 x 305 x 203	25	E-1612P	13 x 9
F-201606N4X-SS	F-201606N4X-316SS	F-201606N4	20 x 16 x 6	508 x 406 x 152	32	E-2016P	17 x 13
F-201608N4X-SS	F-201608N4X-316SS	F-201608N4	20 x 16 x 8	508 x 406 x 203	35	E-2016P	17 x 13
F-202008N4X-SS	F-202008N4X-316SS	F-202008N4	20 x 20 x 8	503 x 508 x 203	42	E-2020P	17 x 17
F-242006N4X-SS	F-242006N4X-316SS	F-242006N4	24 x 20 x 6	610 x 508 x 152	43	E-2420P	21 x 17
F-242008N4X-SS	F-242008N4X-316SS	F-242008N4	24 x 20 x 8	610 x 508 x 203	47	E-2420P	21 x 17
F-242010N4X-SS	F-242010N4X-316SS	F-242010N4	24 x 20 x 10	610 x 508 x 254	52	E-2420P	21 x 17
F-242408N4X-SS	F-242408N4X-316SS	F-242408N4	24 x 24 x 8	610 x 610 x 203	54	E-2424P	21 x 21
F-302008N4X-SS	F-302008N4X-316SS	F-302008N4	30 x 20 x 8	762 x 508 x 203	57	E-3020P	27 x 17
F-302408N4X-SS	F-302408N4X-316SS	F-302408N4	30 x 24 x 8	762 x 610 x 203	65	E-3024P	27 x 21
F-302412N4X-SS	F-302412N4X-316SS	F-302412N4	30 x 24 x 12	762 x 610 x 305	75	E-3024P	27 x 21
F-363008N4X-SS	F-363008N4X-316SS	F-363008N4	36 x 30 x 8	914 x 762 x 203	92	E-3630P	33 x 27
F-363010N4X-SS	F-363010N4X-316SS	F-363010N4	36 x 30 x 10	914 x 762 x 254	98	E-3630P	33 x 27
F-363012N4X-SS	F-363012N4X-316SS	F-363012N4	36 x 30 x 12	914 x 762 x 305	104	E-3630P	33 x 27

Two Door Type 4/4x

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F-244208N4XSS-TDW	F-244208N4XSS-TDW	F-244208N4-TDW	24 x 42 x 8	610 x 1067 x 203	80	E-4224P	39 x 21
F-244812N4XSS-TDW	F-244812N4XSS-TDW	F-244812N4-TDW	24 x 48 x 12	610 x 1219 x 305	94	E-4824P	45 x 21
F-304212N4XSS-TDW	F-304212N4XSS-TDW	F-304212N4-TDW	30 x 42 x 12	762 x 1067 x 305	110	E-4230P	39 x 27
F-306008N4XSS-TDW	F-306008N4XSS-TDW	F-306008N4-TDW	30 x 60 x 8	762 x 1524 x 254	131	E-3060P	57 x 27
F-363610N4XSS-TDW	F-363610N4XSS-TDW	F-363610N4-TDW	36 x 36 x 10	914 x 914 x 254	105	E-3636P	33 x 33
F-364212N4XSS-TDW	F-364212N4XSS-TDW	F-364212N4-TDW	36 x 42 x 12	914 x 1067 x 305	127	E-3642P	39 x 33
F-366010N4XSS-TDW	F-366010N4XSS-TDW	F-366010N4-TDW	36 x 60 x 10	914 x 1524 x 254	163	E-3660P	57 x 33
F-424210N4XSS-TDW	F-424210N4XSS-TDW	F-424210N4-TDW	42 x 42 x 10	1067 x 1067 x 254	136	E-4242P	39 x 39
F-484812N4XSS-TDW	F-484812N4XSS-TDW	F-484812N4-TDW	48 x 48 x 12	1219 x 1219 x 305	180	E-4848P	44 x 44
F-486016N4XSS-TDW	F-486016N4XSS-TDW	F-486016N4-TDW	48 x 60 x 16	1219 x 1524 x 406	240	E-4860P	56 x 44

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Type 12

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-122406SS12	E-122406S6S12	E-122406	12 X 24 X 6	305 X 610 X 152	22	E2412P	21 X 9
E-161606SS12	E-161606S6S12	E-161606	16 X 16 X 6	406 X 406 X 152	19	E-1616P	13 X 13
E-202006SS12	E-202006S6S12	E-202006	20 X 20 X 6	508 X 508 X 152	28	E-2020P	17 X 17
E-202008SS12	E-202008S6S12	E-202008	20 X 20 X 8	508 X 508 X 203	31	E-2020P	17 X 17
E-242408SS12	E-242408S6S12	E-242408	24 X 24 X 8	610 X 610 X 203	42	E-2424P	21 X 21
E-242410SS12	E-242410S6S12	E-242410	24 X 24 X 10	610 X 610 X 254	46	E-2424P	21 X 21
E-302408SS12	E-302408S6S12	E-302408	30 X 24 X 8	762 X 610 X 203	50	E-3024P	27 X 21
E-302410SS12	E-302410S6S12	E-302410	36 X 24 X 10	762 X 610 X 254	76	E-3024P	27 X 21
E-302416SS12	E-302416S6S12	E-302416	30 X 24 X 16	762 X 610 X 406	69	E-3024P	27 X 21
E-303012SS12	E-303012S6S12	E-303012	30 X 30 X 12	762 X 762 X 305	84	E-3030P	27 X 27
E-363010SS12	E-363010S6S12	E-363010	36 X 30 X 16	914 X 762 X 254	111	E-3630P	33 X 27

Two Door Type 12

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-244208-SSTDW	E-244208-316TDW	E-244208TDW	24 X 42 X 8	610 X 1067 X 203	80	E-4224P	39 X 21
E-244212-SSTDW	E-244212-316TDW	E-244212TDW	24 X 42 X 12	610 X 1067 X 305	94	E-4224P	39 X 21
E-244216-SSTDW	E-244216-316TDW	E-244216TDW	24 X 42 X 16	610 X 1067 X 406	107	E-4224P	39 X 21
E-244810-SSTDW	E-244810-316TDW	E-244810TDW	24 X 48 X 10	610 X 1219 X 254	98	E-4824P	45 X 21
E-304210-SSTDW	E-304210-316TDW	E-304210TDW	30 X 42 X 10	762 X 1067 X 305	103	E-4230P	39 X 27
E-304810-SSTDW	E-304810-316TDW	E-304810TDW	30 X 48 X 10	762 X 1219 X 254	116	E-4830P	45 X 27
E-306012-SSTDW	E-306012-316TDW	E-306012TDW	30 X 60 X 12	762 X 1524 X 305	150	E-6030P	57 X 27
E-363616-SSTDW	E-363616-316TDW	E-363616TDW	36 X 36 X 16	914 X 914 X 406	128	E-3636P	33 X 33
E-364212-SSTDW	E-364212-316TDW	E-364212TDW	36 X 42 X 12	914 X 1067 X 305	128	E-4236P	39 X 33
E-364816-SSTDW	E-364816-316TDW	E-364816TDW	36 X 48 X 16	914 X 1219 X 406	144	E-4836P	45 X 33
E-424816-SSTDW	E-424816-316TDW	E-424816TDW	42 X 48 X 16	1067 X 1219 X 406	180	E-4842P	45 X 39
E-426012-SSTDW	E-426012-316TDW	E-426012TDW	42 X 60 X 12	1067 X 1524 X 305	195	E-6042P	56 X 38
E-426016-SSTDW	E-426016-316TDW	E-426016TDW	42 X 60 X 16	1067 X 1524 X 406	216	E-6042P	56 X 38
E-484810-SSTDW	E-484810-316TDW	E-484810TDW	48 X 48 X 10	1219 X 1219 X 254	170	E-4848P	44 X 44
E-484816-SSTDW	E-484816-316TDW	E-484816TDW	48 X 48 X 16	1219 X 1219 X 406	200	E-4848P	44 X 44

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Flush Mount Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-161206-SSFW	E-161206FW	16 x 12 x 6	406 x 305 x 152	15	E-1612P	13 x 9
E-201606F-SSW	E-201606FW	20 x 16 x 6	508 x 406 x 152	23	E-2016P	17 x 13
E-202006-SSFW	E-202006FW	20 x 20 x 6	508 x 508 x 152	28	E-2020P	17 x 17
E-242006-SSFW	E-242006FW	24 x 20 x 6	610 x 508 x 152	32	E-2420P	21 x 17
E-242408-SSFW	E-242408FW	24 x 24 x 8	610 x 610 x 203	42	E-2420P	21 x 17
E-302408-SSFW	E-302408FW	30 x 24 x 8	762 x 610 x 203	50	E-3024P	27 x 21
E-362408-SSFW	E-362408FW	36 x 24 x 8	914 x 610 x 203	58	E-3624P	33 x 21
E-363008-SSFW	E-363008FW	36 x 30 x 8	914 x 762 x 203	70	E-3630P	33 x 27

New Generation Type 12/12x

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
NGSS-122406	NG-122406	12 x 24 x 6	305 x 610 x 152	18	E-2412P	21 x 9
NGSS-161608	NG-161608	16 x 16 x 8	406 x 406 x 203	18	E-1616P	13 x 13
NGSS-201610	NG-201610	20 x 16 x 10	508 x 406 x 254	30	E-2016P	17 x 13
NGSS-202008	NG-202008	20 x 20 x 8	508 x 508 x 203	32	E-2020P	17 x 17
NGSS-242012	NG-242012	24 x 20 x 12	610 x 508 x 305	52	E-2420P	21 x 17
NGSS-302416	NG-302416	30 x 24 x 16	762 x 610 x 406	69	E-3024P	27 x 21
NGSS-303010	NG-303010	30 x 30 x 10	762 x 762 x 254	66	E-3030P	27 x 27
NGSS-362408	NG-362408	36 x 24 x 8	914 x 610 x 8	59	E-3624P	33 x 21
NGSS-422406	NG-422406	42 x 24 x 6	1067 x 610 x 152	61	E-4224P	39 x 21
NGSS-482420	NG-482420	48 x 24 x 20	1219 x 610 x 508	113	E-4824P	45 x 21
NGSS-483610	NG-483610	48 x 36 x 10	1219 x 914 x 254	112	E-4836P	45 x 33
NGSS-602412	NG-602412	60 x 24 x 12	1524 x 610 x 305	107	E-6024P	57 x 21
NGSS-603616	NG-603616	60 x 36 x 16	1524 x 914 x 406	161	E-6036P	57 x 33
NGSS-723612	NG-723612	72 x 36 x 12	1829 x 914 x 305	169	E-7236P	69 x 33

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Panel Spec One Door Type 12

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
PS-121206SS	PS-121206SS6	PS-121206	12 x 12 x 6	305 x 305 x 152	13	PS-1212P	10 X 10
PS-161208SS	PS-161208SS6	PS-161208	16 x 12 x 8	406 x 305 x 203	18	PS-1612P	14 X 10
PS-201608SS	PS-201608SS6	PS-201608	20 x 16 x 8	508 x 406 x 203	26	PS-2016P	18 X 14
PS-202008SS	PS-202008SS6	PS-202008	20 x 20 x 8	508 x 508 x 203	31	PS-2020P	18 x 18
PS-202412SS	PS-202412SS6	PS-202412	20 x 24 x 12	508 x 610 x 305	44	PS-2024P	18 X 22
PS-241610SS	PS-241610SS6	PS-241610	24 x 16 x 10	610 x 406 x 254	34	PS-2416P	22 X 14
PS-242006SS	PS-242006SS6	PS-242006	24 x 20 x 6	610 x 508 x 152	32	PS-2420P	22 X 18
PS-242410SS	PS-242410SS6	PS-242410	24 x 24 x 10	610 x 610 x 254	46	PS-2424P	22 x 22
PS-242412SS	PS-242412SS6	PS-242412	24 x 24 x 12	610 x 610 x 305	50	PS-2424P	22 x 22
PS-302410SS	PS-302410SS6	PS-302410	30 x 24 x 10	762 x 610 x 254	55	PS-3024P	28 x 22
PS-303008SS	PS-303008SS6	PS-303008	30 x 30 x 8	762 x 762 x 203	60	PS-3030P	28 x 28
PS-363010SS	PS-363010SS6	PS-363010	36 x 30 x 10	914 x 762 x 254	76	PS-3630P	34 x 28
PS-363608SS	PS-363608SS6	PS-363608	36 x 36 x 8	914 x 914 x 203	81	PS-3636P	34 x 34
PS-482410SS	PS-482410SS6	PS-482410	48 x 24 x 10	1219 x 610 x 254	98	PS-4824P	46 x 22
PS-483612SS	PS-483612SS6	PS-483612	48 x 36 x 12	1219 x 914 x 305	143	PS-4836P	46 x 34
PS-603612SS	PS-603612SS6	PS-603612	60 x 36 x 12	1524 x 914 x 305	173	PS-6036P	58 x 34
PS-603612SS	PS-603612SS6	PS-603616	60 x 36 x 16	1524 x 914 x 406	193	PS-6036P	58 x 34

Panel Spec Two Door Type 12

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
PS-242408TDWSS	PS-242408TDWSS6	PS-244208TDW	24 x 42 x 8	610 x 1067 x 203	80	PS-4224P	22 x40
PS-244210TDWSS	PS-244210TDWSS6	PS-244210TDW	24 x 42 x 10	610 x 1067 x 254	87	PS-4224P	22 x40
PS-244810TDWSS	PS-244810TDWSS6	PS-244810TDW	24 x 48 x 10	610 x 1219 x 254	98	PS-4824P	22 x46
PS-304210TDWSS	PS-304210TDWSS6	PS-304210TDW	30 x 42 x 10	762 x 1067 x 254	103	PS-4230P	28 x 40
PS-306008TDWSS	PS-306008TDWSS6	PS-306008TDW	30 x 60 x 8	762 x 1524 x 203	131	PS-6030P	28 x 58
PS-363612TDWSS	PS-363612TDWSS6	PS-363612TDW	36 x 36 x 12	914 x 914 x 305	113	PS-3636P	34 x 34
PS-364212TDWSS	PS-364212TDWSS6	PS-364212TDW	36 x 42 x 12	914 x 1067 x 305	128	PS-4236P	34 x 40
PS-364216TDWSS	PS-364216TDWSS6	PS-364216TDW	36 x 42 x 16	914 x 1067 x 406	144	PS-4236P	34 x 40
PS-366012TDWSS	PS-366012TDWSS6	PS-366012TDW	36 x 60 x 12	914 x 1524 x 305	173	PS-6036P	34 x 58
PS-424808TDWSS	PS-424808TDWSS6	PS-424808TDW	42 x 48 x 8	1067 x 1219 x 203	143	PS-4842P	40 x 46
PS-484810TDWSS	PS-484810TDWSS6	PS-484810TDW	48 x 48 x 10	1219 x 1219 x 254	170	PS-4848P	46 x 46
PS-486012TDWSS	PS-486012TDWSS6	PS-486012TDW	48 x 60 x 12	1219 x 1524 x 305	218	PS-6048P	46 x 58
PS-486016TDWSS	PS-486016TDWSS6	PS-486016TDW	48 x 60 x 16	1219 x 1524 x 406	240	PS-6048P	46 x 58

*Contact factory for NEMA 4/4X PS Style boxes.

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.



FREESTANDING ENCLOSURES

Freestanding enclosures are designed to house controls, drive assemblies and other electronic assemblies. These large, heavy duty enclosures can be built with up to five overlapping doors.

POPULAR APPLICATIONS

- Parks & Recreation
- Rail Switching Systems
- Motor Control Systems
- Water Treatment



One Door Type 4/4X



PART NUMBERS ON PAGE 45



CSA - UL/cUL Listed, IEC 60529, IP66

Standard Specifications

- 10 or 12 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel hinge on SS Models)
- Stainless steel door clamps
- Pad lockable hasp and staple
- Mounting holes in bottom for securing to floor
- Unistrut rails for mounting panels
- Panels adjustable front to back
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for additional strength

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating outside, white powder coating inside for Steel enclosures

Popular Add-Ons



Sub Panels



Print Pockets



Window Kits

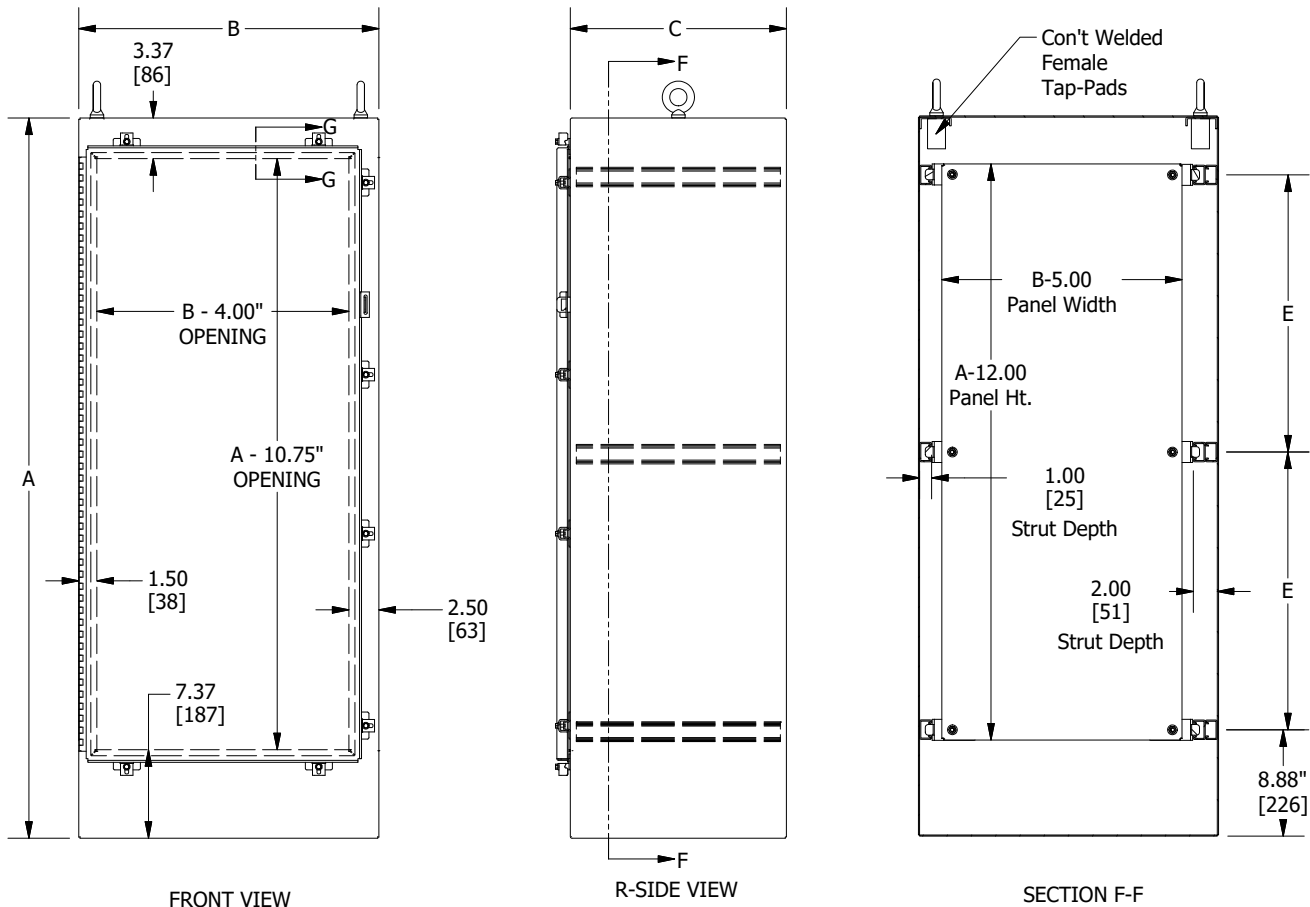


Three-Point
Latch



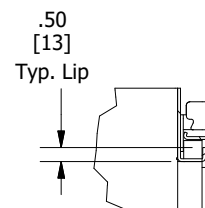
Insulation

One Door Type 4/4X



NOTES

- * E = 23.12" WHEN A = 60"
- * E = 29.12" WHEN A = 72"
- * E = 38.12" WHEN A = 90"



SEC G-G
DETAIL

For more information and detailed drawing files, visit www.emfcompany.com

Two Door Type 4/4X



Standard Specifications

- 10 or 12 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel hinge on SS Models)
- Stainless steel door clamps
- Pad lockable hasp and staple
- Mounting holes in bottom for securing to floor
- Unistrut rails for mounting panels
- Panels adjustable front to back
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for additional strength

PART NUMBERS ON PAGE 46



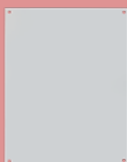
CSA - UL/cUL Listed, IEC 60529, IP66

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating outside, white powder coating inside for steel enclosures

Popular Add-Ons



Sub Panels



Print Pockets



Window Kits

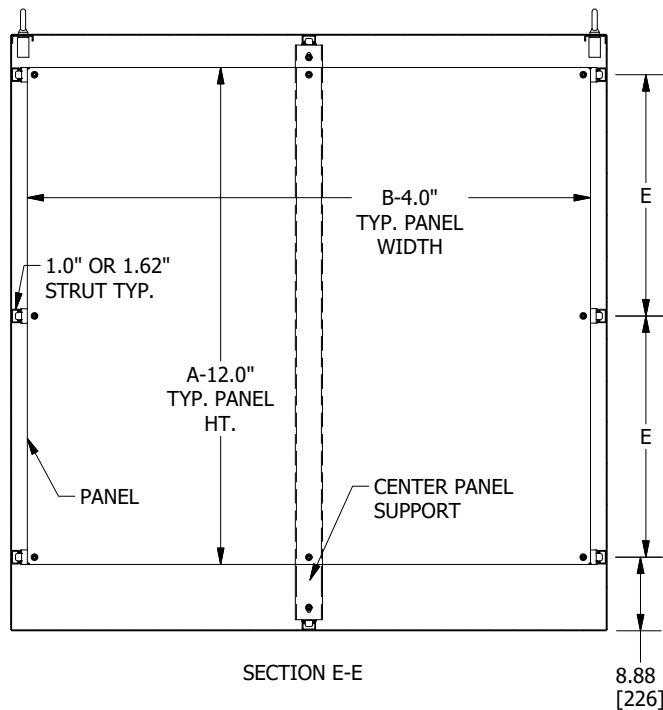
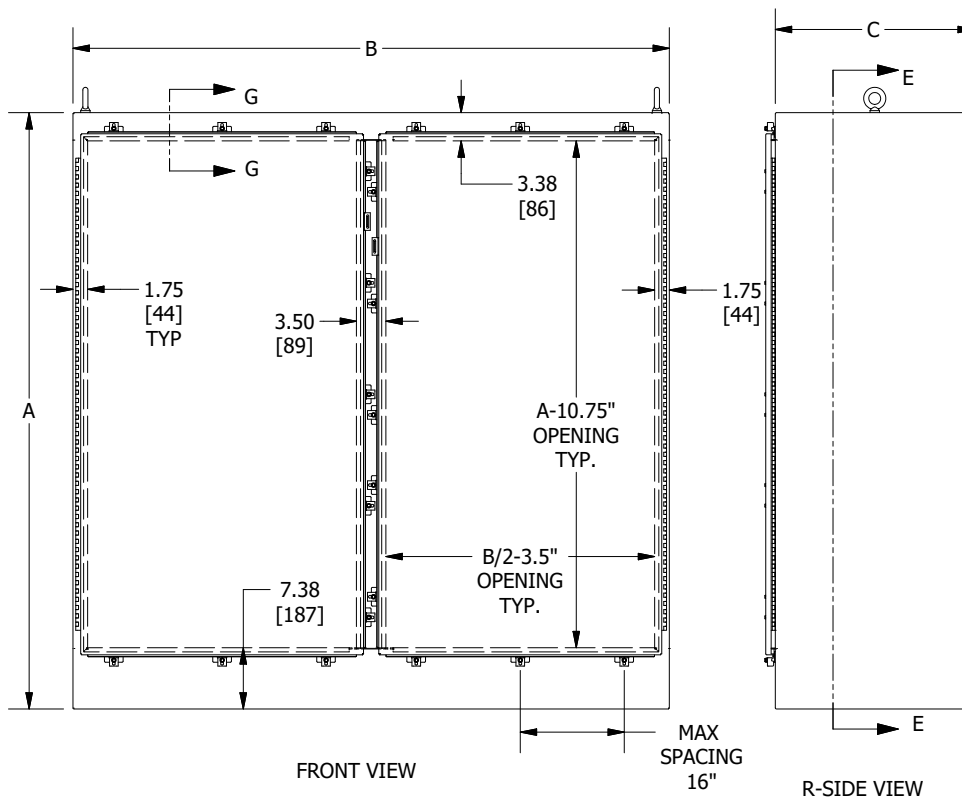


Three-Point
Latch



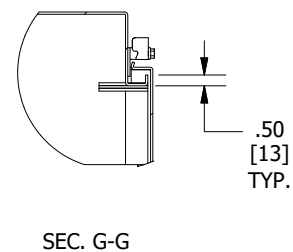
Insulation

Two Door Type 4/4X



NOTES

- * E = 23.12" WHEN A = 60"
- * E = 29.12" WHEN A = 72"
- * E = 38.12" WHEN A = 90"



For more information and detailed drawing files, visit www.emfcompany.com

One Door Type 12



PART NUMBERS ON PAGE 45



CSA - UL/cUL Listed, IEC 60529, IP52

Standard Specifications

- 10/12 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinges on SS Models)
- Mounting holes in bottom for securing to floor
- Three point locking latch
- Unistrut rails for mounting panels
- Panels adjustable front to back
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Overlapping doors with right door as master

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Print Pockets



Window Kits

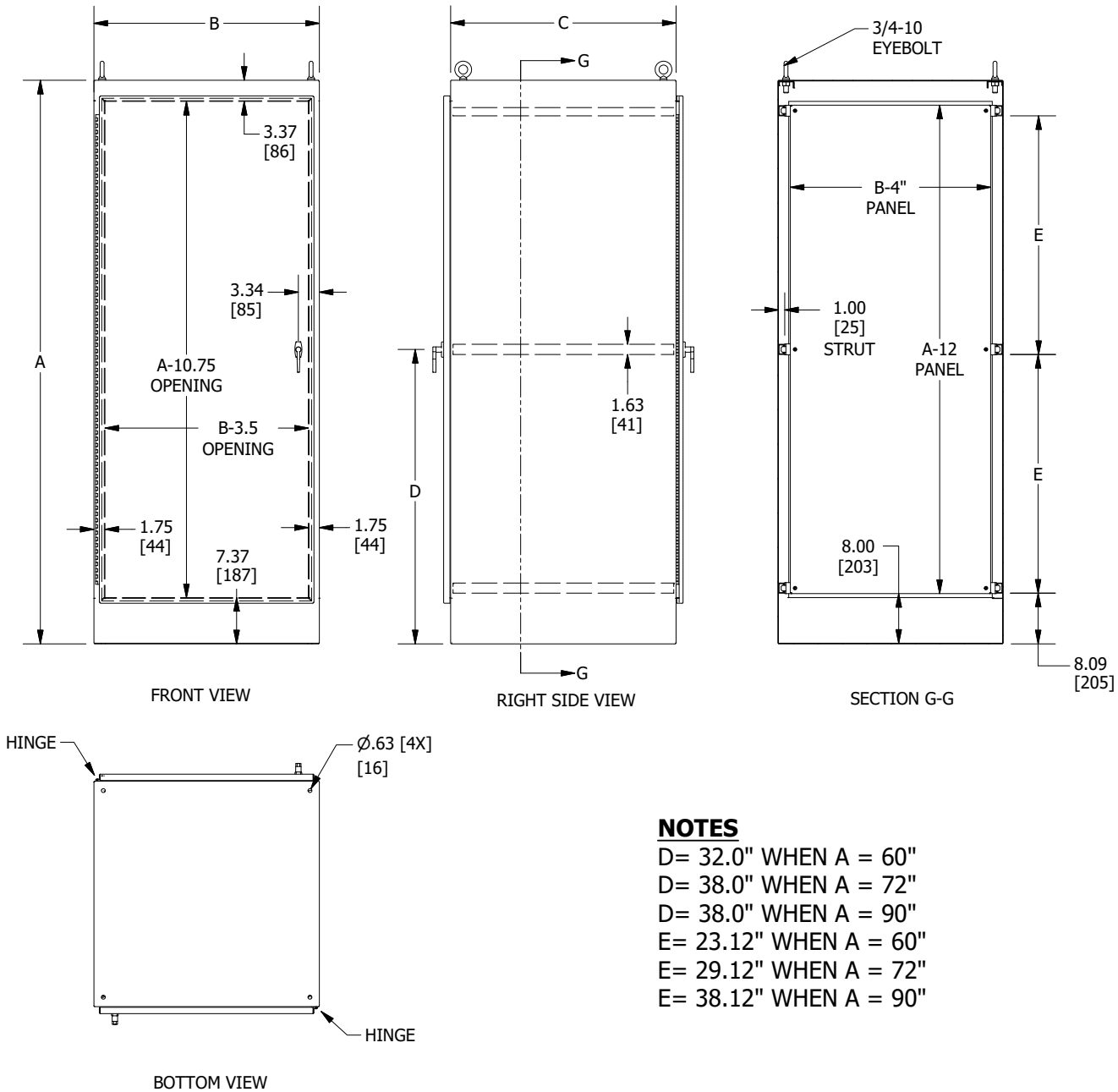


Alternative
Handles



Insulation

One Door Type 12



NOTES

D= 32.0" WHEN A = 60"
 D= 38.0" WHEN A = 72"
 D= 38.0" WHEN A = 90"
 E= 23.12" WHEN A = 60"
 E= 29.12" WHEN A = 72"
 E= 38.12" WHEN A = 90"

For more information and detailed drawing files, visit www.emfcompany.com

Two Door Type 12



Standard Specifications

- 10/12 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinges on SS Models)
- Mounting holes in bottom for securing to floor
- Three point locking latch
- Unistrut rails for mounting panels
- Panels adjustable front to back
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Overlapping doors with right door as master

PART NUMBERS ON PAGE 46



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

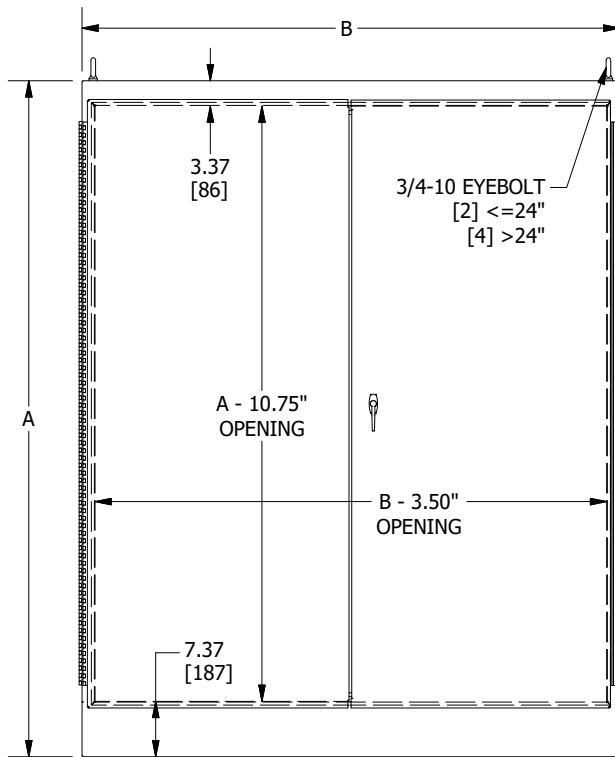
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

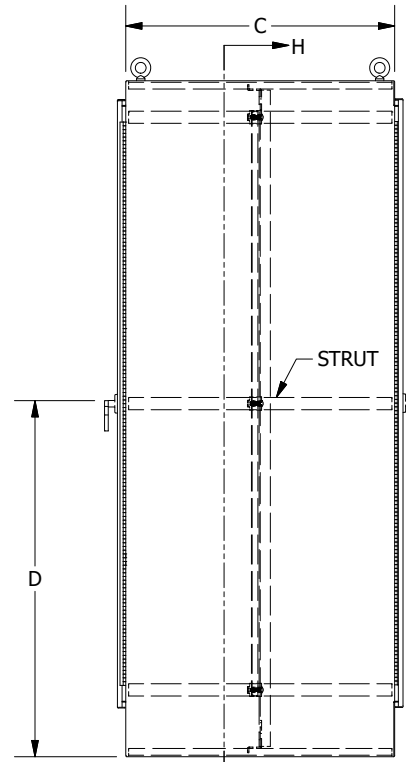
Popular Add-Ons

 Sub Panels	 Print Pockets	 Window Kits	 Alternative Handles	 Insulation
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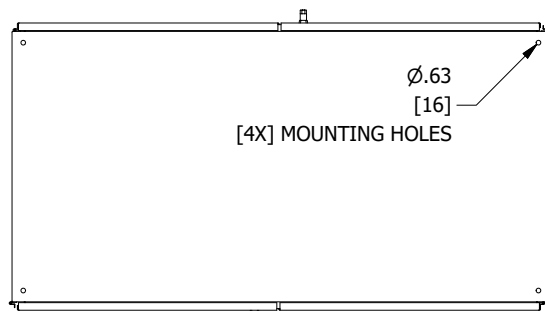
Two Door Type 12



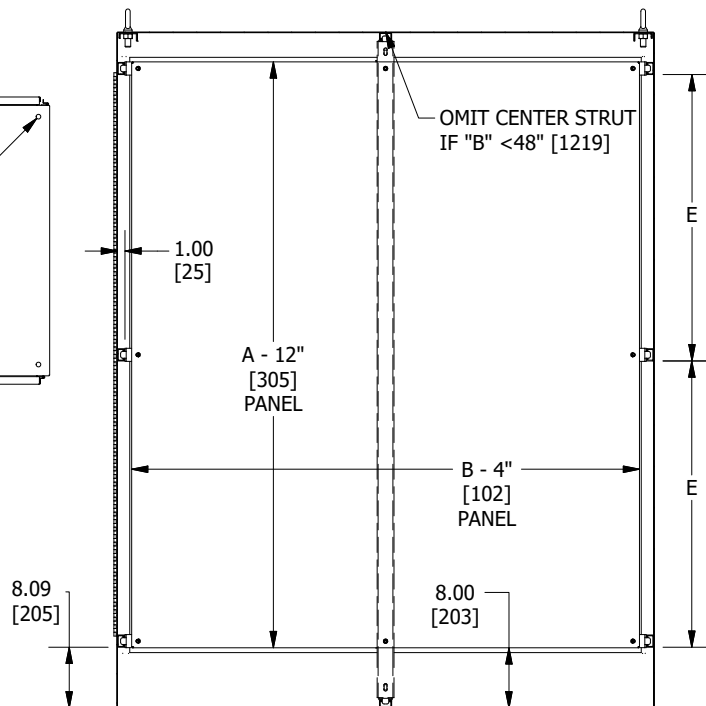
FRONT VIEW



R SIDE VIEW



BOTTOM VIEW



SECTION H-H

NOTES

D= 32.0" WHEN A = 60"
 D= 38.0" WHEN A = 72"
 D= 38.0" WHEN A = 90"
 E= 23.12" WHEN A = 60"
 E= 29.12" WHEN A = 72"
 E= 38.12" WHEN A = 90"

For more information and detailed drawing files, visit www.emfcompany.com

Multi Door Type 12



Standard Specifications

- 10 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on all steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS Models)
- Three point locking latch
- Mounting holes in bottom for securing to floor
- 3/8-16 collar studs with mounting panel included
- 3/4" Heavy duty lifting eyes
- Stiffeners added for rigidity
- Includes light strut for mounting internal lighting

PART NUMBERS ON PAGE 47



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

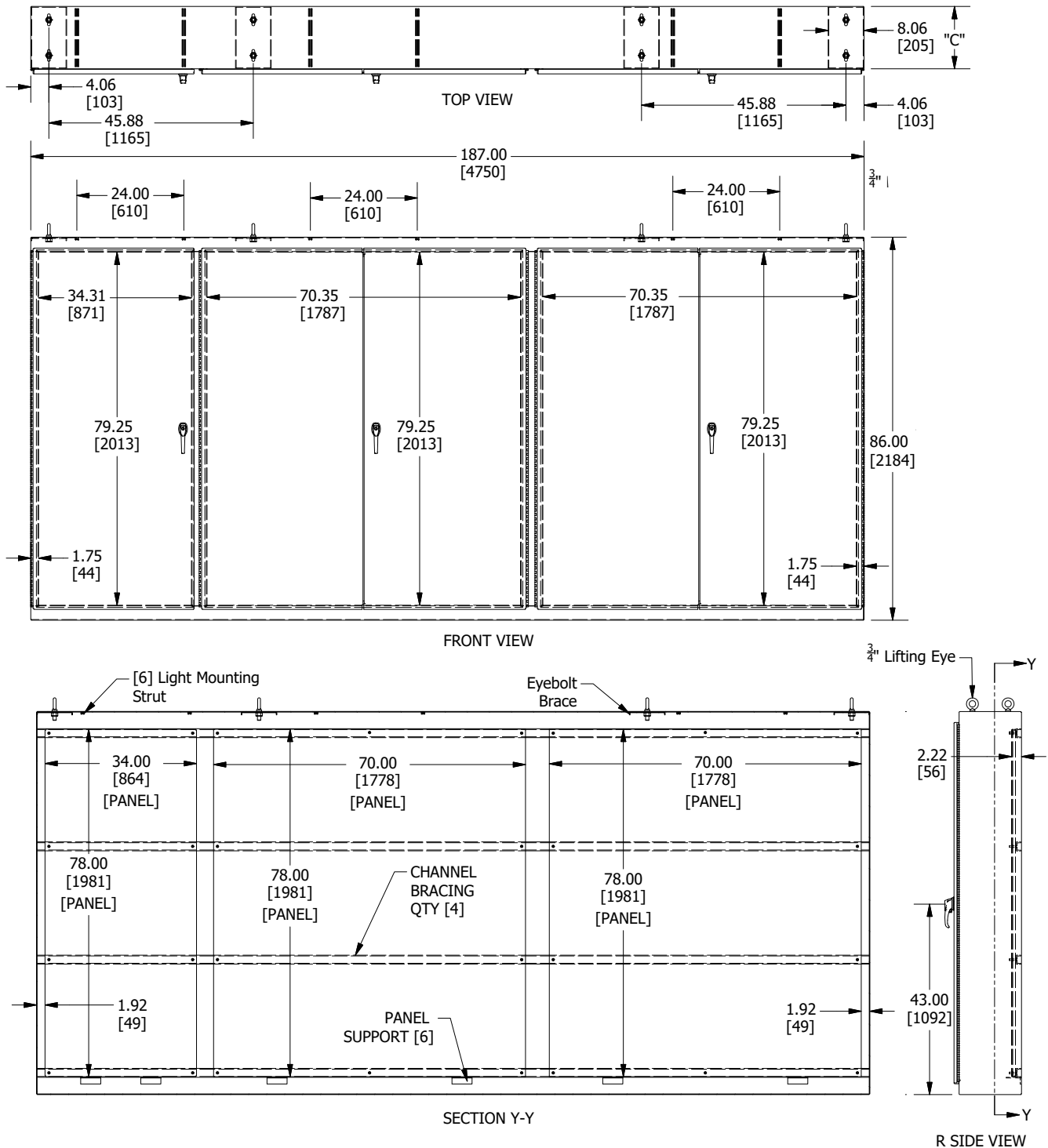
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Multi Door Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Type 4/4X

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F5-722518N4X-SS	F5-722518	72 X 25 X 18	1830 X 637 X 459	229	E5-72924F	60 X 20
F5-722524N4X-SS	F5-722524	72 X 25 X 24	1830 X 637 X 611	269	E5-72P24F	60 X 20
F5-722530N4X-SS	F5-722530	72 X 25 X 30	1830 X 637 X 763	310	E5-72P24F	60 X 20
F5-722536N4X-SS	F5-722536	72 X 25 X 36	1830 X 637 X 915	349	E5-72P24F	60 X 20
F5-723118N4X-SS	F5-723118	72 X 31 X 18	1830 X 789 X 459	263	E5-72P30F	60 X 26
F5-723124N4X-SS	F5-723124	72 X 31 X 24	1830 X 789 X 611	305	E5-72P30F	60 X 26
F5-723130N4X-SS	F5-723130	72 X 31 X 30	1830 X 789 X 763	348	E5-72P30F	60 X 26
F5-723136N4X-SS	F5-723136	72 X 31 X 36	1830 X 789 X 915	389	E5-72P30F	60 X 26
F5-723718N4X-SS	F5-723718	72 X 37 X 18	1830 X 941 X 459	296	E5-72P36F	60 X 32
F5-723724N4X-SS	F5-723724	72 X 37 X 24	1830 X 941 X 611	340	E5-72P36F	60 X 32
F5-723736N4X-SS	F5-723736	72 X 37 X 36	1830 X 941 X 915	429	E5-72P36F	60 X 32
F5-902518N4X-SS	F5-902518	90 X 25 X 18	2288 X 637 X 459	277	E5-90P24F	78 X 20
F5-902524N4X-SS	F5-902524	90 X 25 X 24	2288 X 637 X 611	324	E5-90P24F	78 X 20
F5-902530N4X-SS	F5-902530	90 X 25 X 30	2288 X 637 X 763	371	E5-90P24F	78 X 20
F5-902536N4X-SS	F5-902536	90 X 25 X 36	2288 X 637 X 915	417	E5-90P24F	78 X 20
F5-903118N4X-SS	F5-903118	90 X 31 X 18	2288 X 789 X 459	316	E5-90P30F	78 X 26
F5-903124N4X-SS	F5-903124	90 X 31 X 24	2288 X 789 X 611	366	E5-90P30F	78 X 26
F5-903130N4X-SS	F5-903130	90 X 31 X 30	2288 X 789 X 763	415	E5-90P30F	78 X 26
F5-903136N4X-SS	F5-903136	90 X 31 X 36	2288 X 789 X 915	463	E5-90P30F	78 X 26
F5-903724N4X-SS	F5-903724	90 X 37 X 24	2288 X 941 X 611	407	E5-90P36F	78 X 32
F5-903730N4X-SS	F5-903730	90 X 37 X 30	2288 X 941 X 763	458	E5-90P36F	78 X 32
F5-903736N4X-SS	F5-903736	90 X 37 X 36	2288 X 941 X 915	509	E5-90P36F	78 X 32

One Door Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E5-602418-SS	E5-602418	60 X 24 X 18	1526 X 611 X 459	185	E5-60P24F	48 X 20
E5-603618-SS	E5-603618	60 X 36 X 18	1526 X 916 X 459	243	E5-60P36F	48 X 32
E5-722424-SS	E5-722424	72 X 24 X 24	1830 X 611 X 611	300	E5-72P24F	60 X 20
E5-723024-SS	E5-723024	72 X 30 X 24	1830 X 764 X 611	335	E5-72P30F	60 X 26
E5-723636-SS	E5-723636	72 X 36 X 36	1830 X 916 X 915	465	E5-72P36F	60 X 32
E5-902418-SS	E5-902418	90 X 24 X 18	2288 X 611 X 459	261	E5-90P24F	78 X 20
E5-903018-SS	E5-903018	90 X 30 X 18	2288 X 764 X 459	338	E5-90P30F	78 X 26
E5-903030-SS	E5-903030	90 X 30 X 30	2288 X 764 X 763	424	E5-90P30F	78 X 26
E5-903630-SS	E5-903630	90 X 36 X 30	2288 X 916 X 763	486	E5-90P36F	78 X 32
E5-903636-SS	E5-903636	90 X 36 X 36	2288 X 916 X 915	532	E5-90P36F	78 X 32

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Two Door Type 4/4X

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F5-604818N4X-SS	F5-604818	60 X 48 X 18	1524 X 1219 X 457	295	E5-60P48F	48 X 44
F5-604824N4X-SS	F5-604824	60 X 48 X 24	1524 X 1219 X 610	334	E5-60P48F	48 X 44
F5-606018N4X-SS	F5-606018	60 X 60 X 18	1524 X 1524 X 457	351	E5-60P60F	48 X 56
F5-606036N4X-SS	F5-606036	60 X 60 X 36	1524 X 1524 X 914	483	E5-60P60F	48 X 56
F5-724818N4X-SS	F5-724818	72 X 48 X 18	1829 X 1219 X 457	346	E5-72P48F	60 X 44
F5-724824N4X-SS	F5-724824	72 X 48 X 24	1829 X 1219 X 610	387	E5-72P48F	60 X 44
F5-724836N4X-SS	F5-724836	72 X 48 X 36	1829 X 1219 X 914	474	E5-72P48F	60 X 44
F5-726018N4X-SS	F5-726018	72 X 60 X 18	1829 X 1524 X 457	408	E5-72P60F	60 X 56
F5-726024N4X-SS	F5-726024	72 X 60 X 24	1829 X 1524 X 610	457	E5-72P60F	60 X 56
F5-726036N4X-SS	F5-726036	72 X 60 X 36	1829 X 1524 X 914	553	E5-72P60F	60 X 56
F5-727218N4X-SS	F5-727218	72 X 72 X 18	1829 X 1829 X 457	474	E5-72P72F	60 X 68
F5-727236N4X-SS	F5-727236	72 X 72 X 36	1829 X 1829 X 914	761	E5-72P72F	60 X 68
F5-904820N4X-SS	F5-904820	90 X 48 X 20	2286 X 1219 X 508	498	E5-90P48F	78 X 44
F5-904836N4X-SS	F5-904836	90 X 48 X 36	2286 X 1219 X 914	632	E5-90P48F	78 X 44
F5-906020N4X-SS	F5-906020	90 X 60 X 20	2286 X 1524 X 508	595	E5-90P60F	78 X 56
F5-906024N4X-SS	F5-906024	90 X 60 X 24	2286 X 1524 X 610	635	E5-90P60F	78 X 56
F5-906036N4X-SS	F5-906036	90 X 60 X 36	2286 X 1524 X 914	757	E5-90P60F	78 X 56
F5-907218N4X-SS	F5-907218	90 X 72 X 18	2286 X 1829 X 457	662	E5-90P72F	78 X 68
F5-907220N4X-SS	F5-907220	90 X 72 X 20	2286 X 1829 X 508	684	E5-90P72F	78 X 68
F5-907224N4X-SS	F5-907224	90 X 72 X 24	2286 X 1829 X 610	727	E5-90P72F	78 X 68
F5-907236N4X-SS	F5-907236	90 X 72 X 36	2286 X 1829 X 914	858	E5-90P72F	78 X 68

Two Door Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E5-604818-SS	E5-604818	60 x 48 x 18	1524 x 1219 x 457	300	E5-60P48F	48 x 44
E5-606018-SS	E5-606018	60 x 60 x 18	1524 x 1524 x 457	396	E5-60P60F	48 x 56
E5-606036-SS	E5-606036	60 x 60 x 36	1524 x 1524 x 914	546	E5-60P60F	48 x 56
E5-724824-SS	E5-724824	72 x 48 x 24	1829 x 1219 x 610	530	E5-72P48F	60 x 44
E5-726036-SS	E5-726036	72 x 60 x 36	1829 x 1524 x 914	750	E5-72P60F	60 x 56
E5-904818-SS	E5-904818	90 x 48 x 18	2286 x 1219 x 457	503	E5-90P48F	78 x 44
E5-904820-SS	E5-904820	90 x 48 x 20	2286 x 1219 x 508	528	E5-90P48F	78 x 44
E5-906018-SS	E5-906018	90 x 60 x 18	2286 x 1524 x 457	593	E5-90P60F	78 x 56
E5-906036-SS	E5-906036	90 x 60 x 36	2286 x 1524 x 914	776	E5-90P60F	78 x 56
E5-907224-SS	E5-907224	90 x 72 x 24	2286 x 1829 x 610	825	E5-90P72F	78 x 68
E5-907236-SS	E5-907236	90 x 72 x 36	2286 x 1829 x 914	1000	E5-90P72F	78 x 68

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Dual Access Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E5-602418DA-SS	E5-602418DA	60 X 24 X 18	1526 X 611 X 459	190	E5-60P24F	48 X 20
E5-603618DA-SS	E5-603618DA	60 X 36 X 18	1526 X 916 X 459	248	E5-60P36F	48 X 32
E5-722424DA-SS	E5-722424DA	72 X 24 X 24	1830 X 611 X 611	300	E5-72P24F	60 X 20
E5-723024DA-SS	E5-723024DA	72 X 30 X 24	1830 X 764 X 611	335	E5-72P30F	60 X 26
E5-723618DA-SS	E5-723618DA	72 X 36 X 18	1830 X 916 X 459	325	E5-72P36F	60 X 32
E5-723636DA-SS	E5-723636DA	72 X 36 X 36	1830 X 916 X 915	465	E5-72P36F	60 X 32
E5-902418DA-SS	E5-902418DA	90 X 24 X 18	2288 X 611 X 459	261	E5-90P24F	78 X 20
E5-903024DA-SS	E5-903024DA	90 X 30 X 24	2288 X 764 X 611	381	E5-90P30F	78 X 26
E5-903036DA-SS	E5-903036DA	90 X 30 X 36	2288 X 764 X 915	468	E5-90P30F	78 X 26
E5-903630DA-SS	E5-903630DA	90 X 36 X 30	2288 X 916 X 763	486	E5-90P36F	78 X 32
E5-903636DA-SS	E5-903636DA	90 X 36 X 36	2288 X 916 X 915	532	E5-90P36F	78 X 32

Two Door Dual Access Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimension (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E5-604818DA-SS	E5-604818DA	60 X 48 X 18	1524 X 1219 X 457	300	E5-60P48F	48 X 44
E5-604824DA-SS	E5-604824DA	60 X 48 X 24	1524 X 1219 X 610	339	E5-60P48F	48 X 44
E5-606024DA-SS	E5-606024DA	60 X 60 X 24	1524 X 1524 X 610	402	E5-60P60F	48 X 56
E5-724824DA-SS	E5-724824DA	72 X 48 X 24	1829 X 1219 X 610	393	E5-72P48F	60 X 44
E5-726024DA-SS	E5-726024DA	72 X 60 X 24	1829 X 1524 X 610	463	E5-72P60F	60 X 56
E5-727224DA-SS	E5-727224DA	72 X 72 X 24	1829 X 1829 X 610	579	E5-72P72F	60 X 68
E5-727236DA-SS	E5-727236DA	72 X 72 X 36	1829 X 1829 X 914	684	E5-72P72F	60 X 68
E5-904824DA-SS	E5-904824DA	90 X 48 X 24	2286 X 1219 X 610	511	E5-90P48F	78 X 44
E5-906020DA-SS	E5-906020DA	90 X 60 X 20	2286 X 1524 X 508	567	E5-90P60F	78 X 56
E5-907224DA-SS	E5-907224DA	90 X 72 X 24	2286 X 1829 X 610	697	E5-90P72F	78 X 68
E5-907236DA-SS	E5-907236DA	90 X 72 X 36	2286 X 1829 X 914	815	E5-90P72F	78 X 68

Multi Door Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	A x B x C (in)	Dimensions (mm)	Shipping (lbs)	# of Doors	# of panels	1 st Panel Size (in)	2 nd Panel Size (in)
E-86M3ESS	E-86M3E	86 x 112 x 14	2187 x 2845 x 359	1163	3	2	78 x 70	78 x 34
E-86M3E20SS	E-86M3E20	86 x 112 x 20	2187 x 2845 x 511	1274	3	2	78 x 70	78 x 34
E-86M4ESS	E-86M4E	86 x 149 x 14	2187 x 3785 x 359	1510	4	2	78 x 70	78 x 70
E-86M4E20SS	E-86M4E20	86 x 149 x 20	2187 x 3785 x 511	1642	4	2	78 x 70	78 x 70
E-86M5ESS	E-86M5E	86 x 187 x 14	2187 x 4750 x 359	1866	5	3	78 x 70	78 x 34
E-86M5E20SS	E-86M5E20	86 x 187 x 20	2187 x 4750 x 511	2020	5	3	78 x 70	78 x 34

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.



FLOOR MOUNT ENCLOSURES

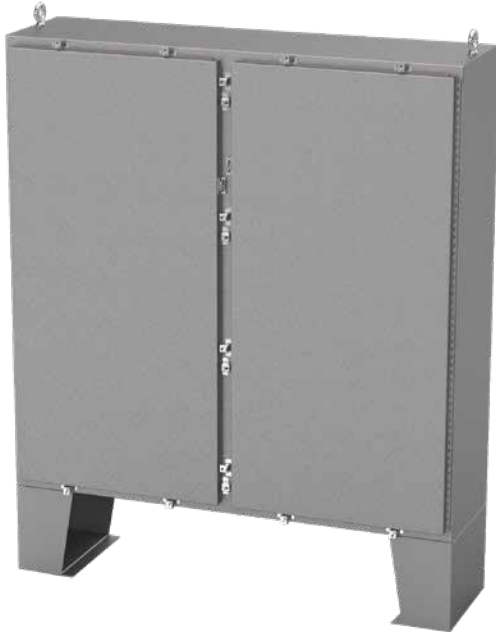
Floor mount enclosures provide a sturdy mounting system while raising electrical components off of the floor. Various leg heights and styles are available.

POPULAR APPLICATIONS

- Dock Unloader Systems
- Conveyor Systems
- Parks & Recreation
- Breweries & Food Preparation
- Motor Control Systems



Two Door Type 4/4X



Standard Specifications

- 12 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on all SS models)
- Stainless steel door clamps
- Pad lockable hasp and staple
- 12" Legs with pre-cut mounting holes
- 3/8-16 collar studs and panel supports for mounting panels
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Removable center post
- Stiffeners added for additional strength

PART NUMBERS ON PAGE 53



Finish

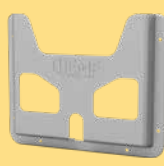
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating outside, white powder coat inside for carbon steel enclosures
- Ask about custom powder coating options!

Popular Add-Ons



Sub Panels



Print Pockets



Window Kits

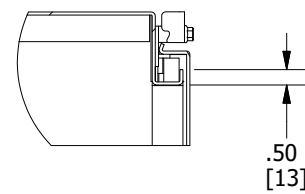
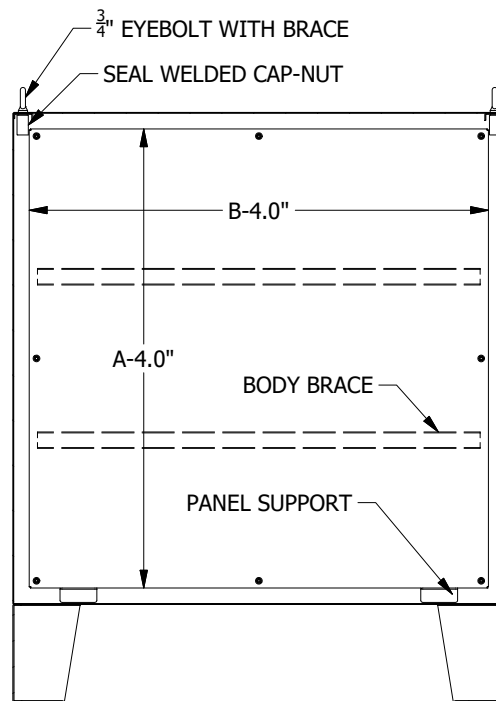
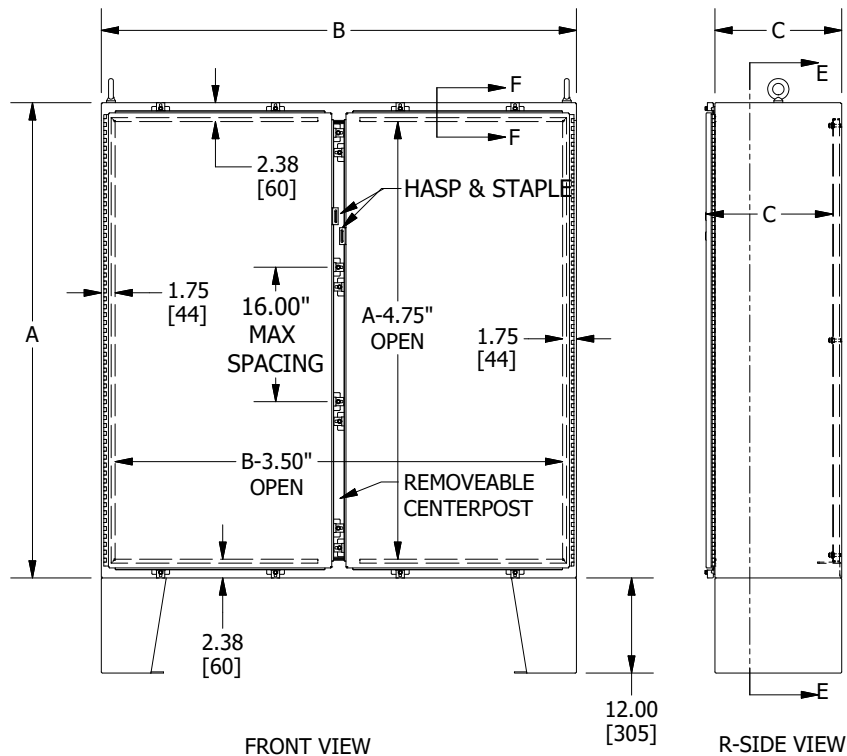


Louvers



Alternative
Leg Height

Two Door Type 4/4X



SECTION F-F

For more information and detailed drawing files, visit www.emfcompany.com

Two Door Type 12



Standard Specifications

- 12 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door face
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge for SS Enclosures)
- Three-point locking latch (L2 handle standard)
- 12" Legs with pre-cut mounting holes
- 3/8-16 collar studs and panel supports for mounting panels
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for additional strength
- Overlapping doors with right as master

PART NUMBERS ON PAGE 53

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel



- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coating options!

Popular Add-Ons



Sub Panels



Alternative Handles



Window Kits

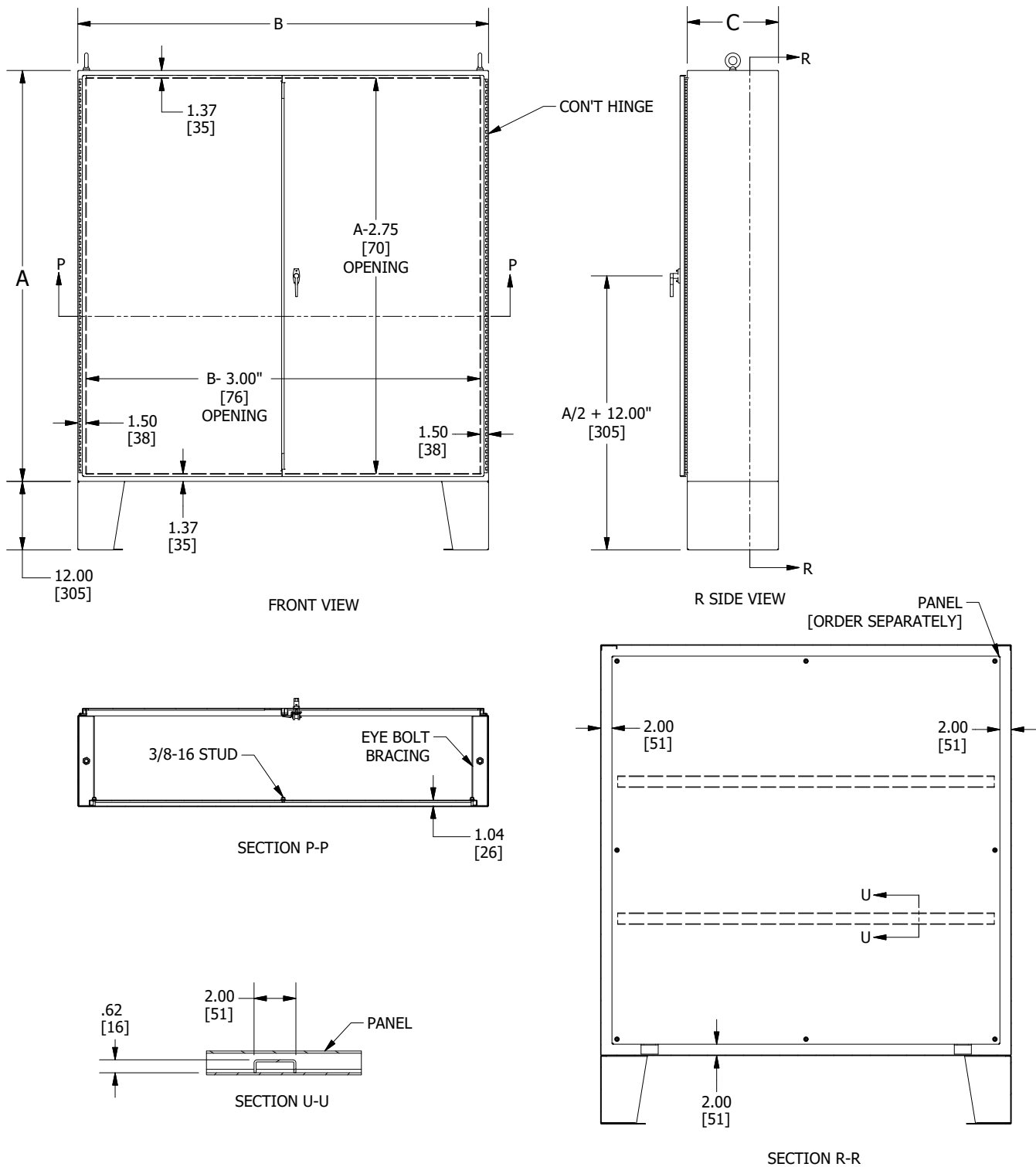


Louvers



Insulation

Two Door Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Two Door Type 4/4x

Stainless Steel 304	Stainless Steel 316	Carbon Steel	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F-624810N4FXSS	F-624810N4FX6SS	F-624810	62 X 48 X 10	1576 X 1221 X 256	356	E-6048P	56 X 44
F-624812N4FXSS	F-624812N4FX6SS	F-624812	62 X 48 X 12	1576 X 1221 X 306	369	E-6048P	56 X 44
F-624816N4FXSS	F-624816N4FX6SS	F-624816	62 X 48 X 16	1576 X 1221 X 408	396	E-6048P	56 X 44
F-624820N4FXSS	F-624820N4FX6SS	F-624820	62 X 48 X 20	1576 X 1221 X 510	423	E-6048P	56 X 44
F-624824N4FXSS	F-624824N4FX6SS	F-624824	62 X 48 X 24	1576 X 1221 X 611	450	E-6048P	56 X 44
F-626010N4FXSS	F-626010N4FX6SS	F-626010	62 X 60 X 10	1576 X 1526 X 256	409	E-6060P	56 X 56
F-626016N4FXSS	F-626016N4FX6SS	F-626016	62 X 60 X 16	1576 X 1526 X 408	453	E-6060P	56 X 56
F-626020N4FXSS	F-626020N4FX6SS	F-626020	62 X 60 X 20	1576 X 1526 X 510	483	E-6060P	56 X 56
F-626024N4FXSS	F-626024N4FX6SS	F-626024	62 X 60 X 24	1576 X 1526 X 611	513	E-6060P	56 X 56
F-744810N4FXSS	F-744810N4FX6SS	F-744810	74 X 48 X 10	1881 X 1221 X 256	398	E-7248P	68 X 44
F-744812N4FXSS	F-744812N4FX6SS	F-744812	74 X 48 X 12	1881 X 1221 X 306	413	E-7248P	68 X 44
F-744820N4FXSS	F-744820N4FX6SS	F-744820	74 X 48 X 20	1881 X 1221 X 510	473	E-7248P	68 X 44
F-744824N4FXSS	F-744824N4FX6SS	F-744824	74 X 48 X 24	1881 X 1221 X 611	503	E-7248P	68 X 44
F-746010N4FXSS	F-746010N4FX6SS	F-746010	74 X 60 X 10	1881 X 1526 X 256	460	E-7260P	68 X 56
F-746012N4FXSS	F-746012N4FX6SS	F-746012	74 X 60 X 12	1881 X 1526 X 306	476	E-7260P	68 X 56
F-746016N4FXSS	F-746016N4FX6SS	F-746016	74 X 60 X 16	1881 X 1526 X 408	508	E-7260P	68 X 56
F-746024N4FXSS	F-746024N4FX6SS	F-746024	74 X 60 X 24	1881 X 1526 X 611	572	E-7260P	68 X 56
F-747212N4FXSS	F-747212N4FX6SS	F-747212	74 X 72 X 12	1881 X 1830 X 306	539	E-7272P	68 X 68
F-747216N4FXSS	F-747216N4FX6SS	F-747216	74 X 72 X 16	1881 X 1830 X 408	575	E-7272P	68 X 68
F-747220N4FXSS	F-747220N4FX6SS	F-747220	74 X 72 X 20	1881 X 1830 X 510	611	E-7272P	68 X 68
F-747224N4FXSS	F-747224N4FX6SS	F-747224	74 X 72 X 24	1881 X 1830 X 611	647	E-7272P	68 X 68

Two Door Type 12

Stainless Steel 304	Stainless Steel 316	Carbon Steel	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-544208SSN12	E-544208316SS-FM	E-544208	54 x 42 x 8	1372 x 1067 x 203	210	E-5442P	51 x 39
E-604812SSN12	E-604812316SS-FM	E-604812	60 x 48 x 12	1524 x 1219 x 306	301	E-6048P	57 x 45
E-604820SSN12	E-604820316SS-FM	E-604820	60 x 48 x 20	1524 x 1219 x 510	367	E-6048P	57 x 45
E-606008SSN12	E-606008316SS-FM	E-606008	60 x 60 x 8	1524 x 1524 x 203	319	E-6060P	57 x 57
E-606010SSN12	E-606010316SS-FM	E-606010	60 x 60 x 10	1524 x 1524 x 256	336	E-6060P	57 x 57
E-606016SSN12	E-606016316SS-FM	E-606016	60 x 60 x 16	1524 x 1524 x 408	390	E-6060P	57 x 57
E-724816SSN12	E-724816316SS-FM	E-724816	72 x 48 x 16	1829 x 1219 x 408	387	E-7248P	69 x 45
E-726012SSN12	E-726012316SS-FM	E-726012	72 x 60 x 12	1829 x 1524 x 306	407	E-7260P	69 x 57
E-726016SSN12	E-726016316SS-FM	E-726016	72 x 60 x 16	1829 x 1524 x 408	446	E-7260P	69 x 57
E-726020SSN12	E-726020316SS-FM	E-726020	72 x 60 x 20	1829 x 1524 x 510	485	E-7260P	69 x 57
E-727216SSN12	E-727216316SS-FM	E-727216	72 x 72 x 16	1829 x 1829 x 408	556	E-7272P	69 x 69

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

JIC ENCLOSURES

JIC Enclosures are NEMA rated to protect against dust, dirt, oil and water. These Junction Boxes have multiple hinge and clamp configurations to choose from.

POPULAR APPLICATIONS

- Highway Lighting Systems
- Breweries & Dairies
- General electrical contracting



Screw Cover Type 12



Standard Specifications

- 14 or 16 gauge steel
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Captivated screws threaded into sealed wells for liquid-tight seal
- Mounting feet on top and bottom
- Weld nuts for mounting panels
- Grounding stud on door

PART NUMBERS ON PAGE 67

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel



CSA - UL/cUL Listed, IEC 60529, IP52

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

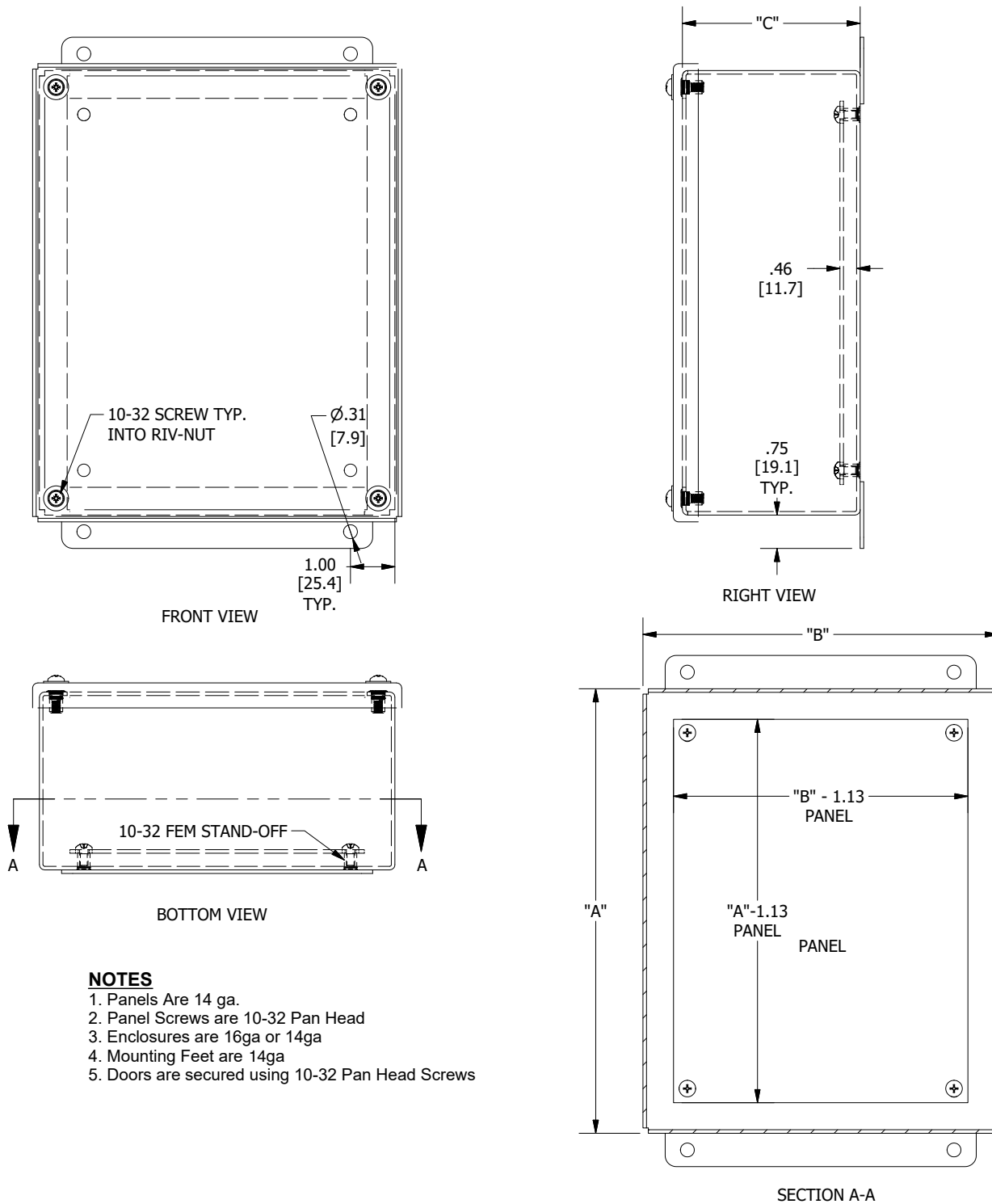


Louvers



Knockouts/Cutouts

Screw Cover Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Clamp Cover Type 4



Standard Specifications

- 14 or 16 gauge steel or galvanized steel
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Removable cover
- Screw door clamps
- Mounting feet on top and bottom
- Weld nuts for mounting panels
- Grounding stud on door

PART NUMBERS ON PAGE 68



CSA - UL/cUL Listed, IEC 60529, IP66

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for Steel enclosures
- Galvanized boxes are unpainted. Corners are coated with zinc-rich primer for protection

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

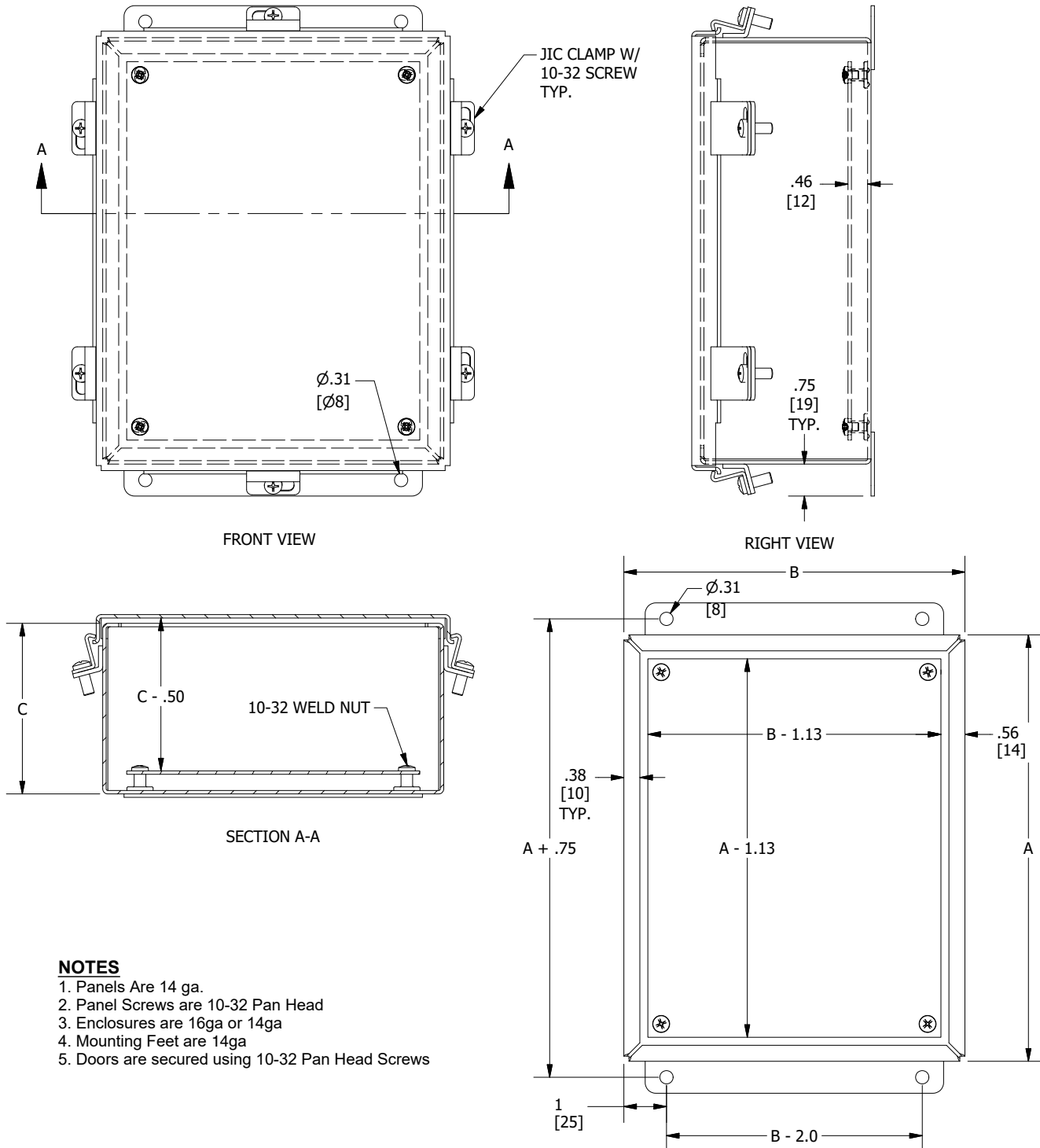


Alternative
Clamps



Knockouts/Cutouts

Clamp Cover Type 4



For more information and detailed drawing files, visit www.emfcompany.com

Continuous Hinge Clamp Cover Type 4/4X



Standard Specifications

- 14 or 16 gauge steel, 304 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS Models)
- Screw door clamps
- Mounting feet on top and bottom
- Weld nuts for mounting panels
- Grounding stud on door

PART NUMBERS ON PAGE 68



CSA - UL/cUL Listed, IEC 60529, IP66

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

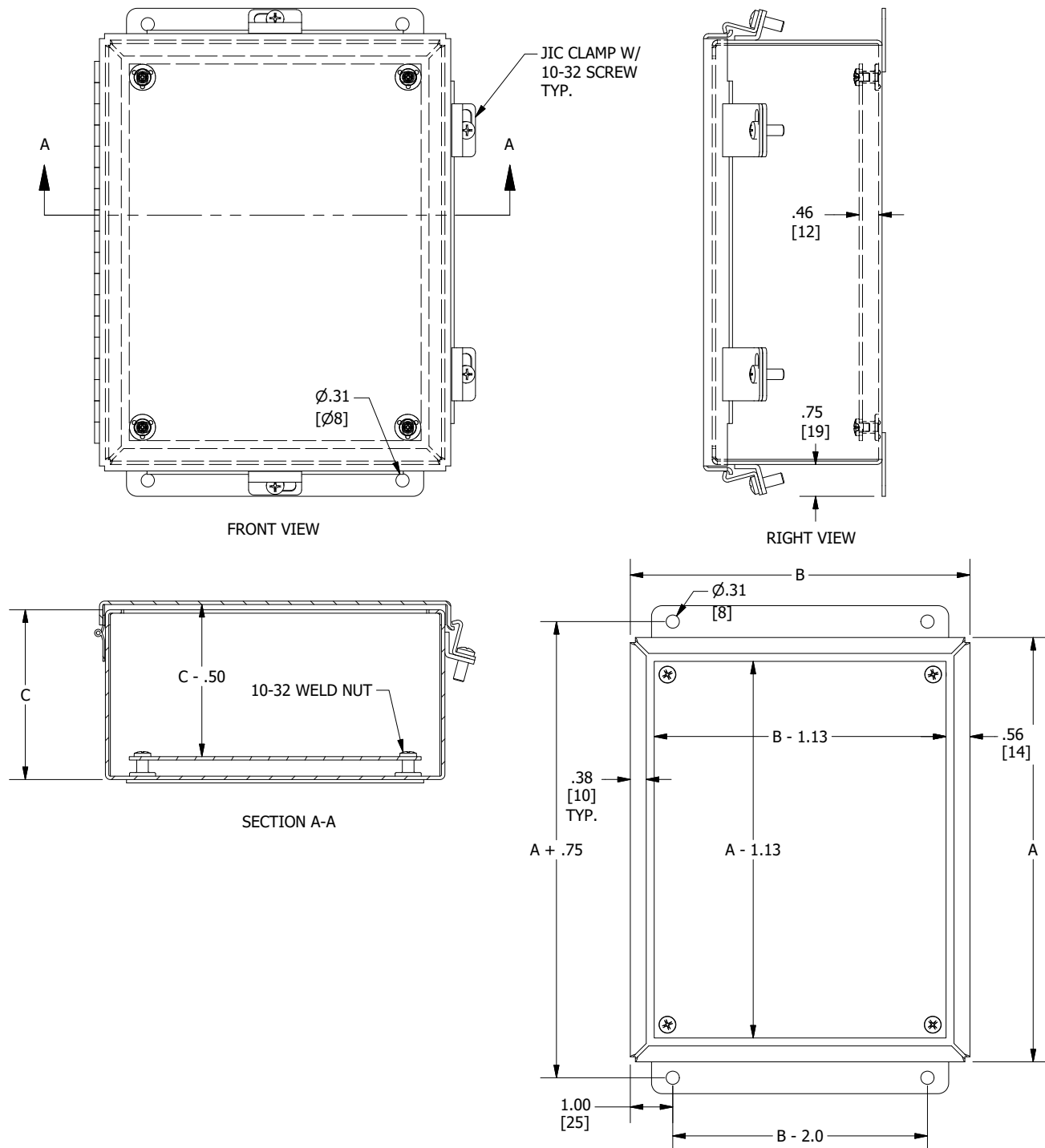


Alternative
Clamps



Knockouts/Cutouts

Continuous Hinge Clamp Cover Type 4/4X



For more information and detailed drawing files, visit www.emfcompany.com

Continuous Hinge Clamp Cover Type 12



Standard Specifications

- 14 or 16 gauge steel or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Continuous hinge with stainless steel pin (Stainless Steel hinge on SS models)
- Screw door clamps
- Mounting feet on top and bottom
- Weld nuts for mounting panels
- Grounding stud on door

PART NUMBERS ON PAGE 68



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

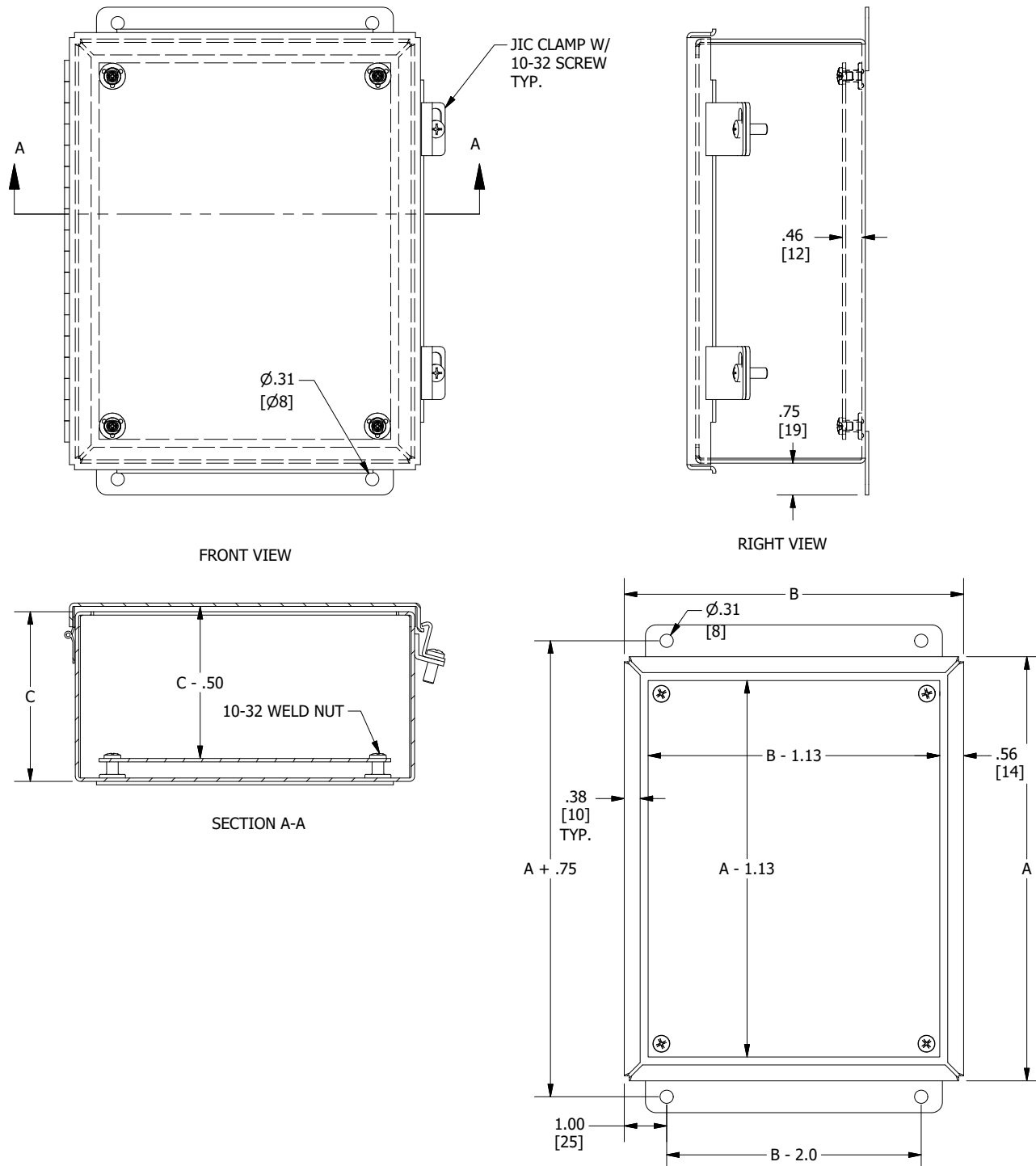


Alternative
Clamps



Knockouts/Cutouts

Continuous Hinge Clamp Cover Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Lift Off Hinge Type 12



Standard Specifications

- 14 or 16 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Lift-Off hinges
- Screw door clamps
- Cover held on with jack chain
- Mounting feet on top and bottom
- Weld nuts for mounting panels
- Grounding stud on door

PART NUMBERS ON PAGE 67



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

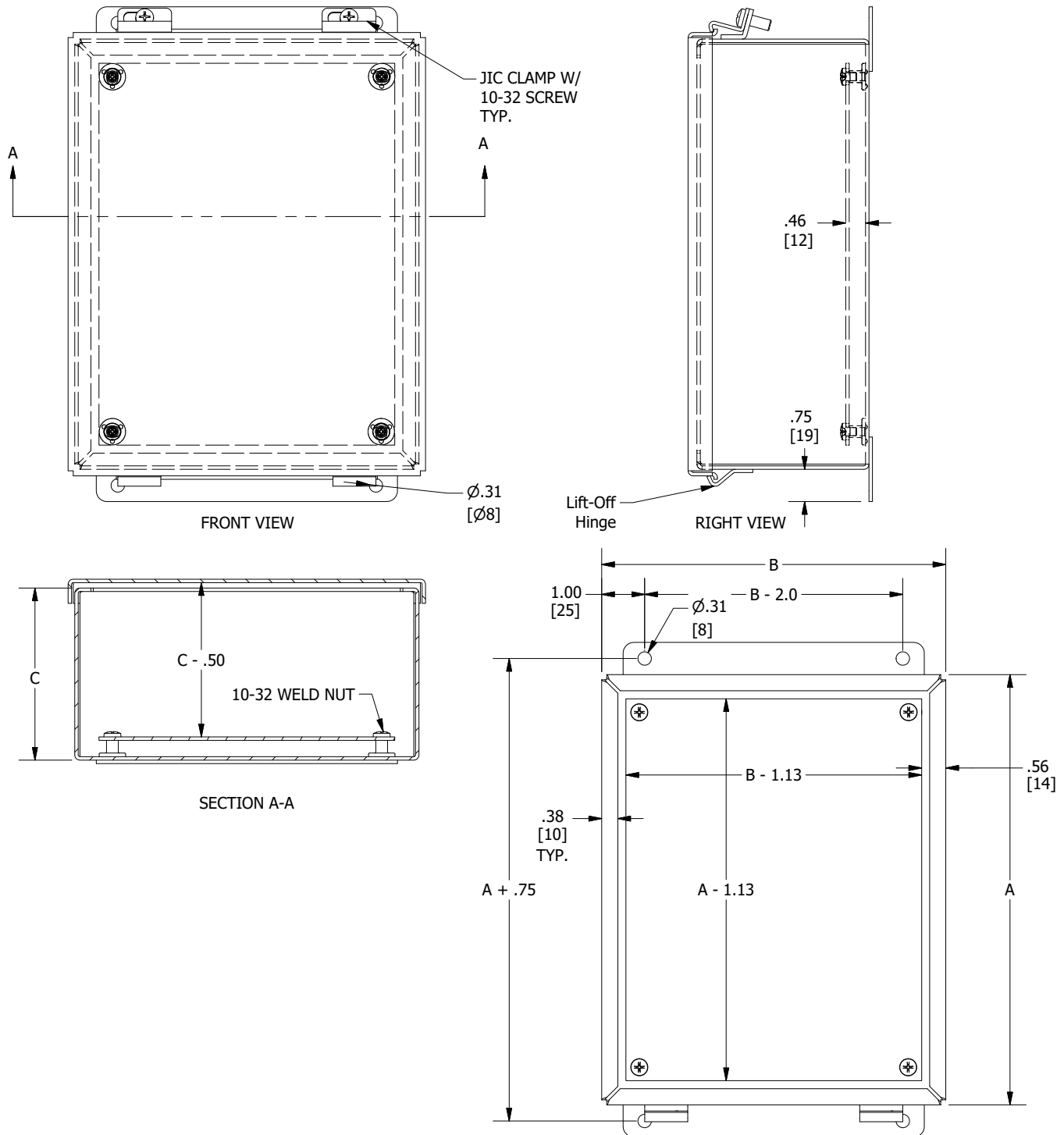


Alternative
Clamps



Knockouts/Cutouts

Lift Off Hinge Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Extra Large Continuous Hinge Type 12



PART NUMBERS ON PAGE 69



CSA - UL/cUL Listed, IEC 60529, IP52

Standard Specifications

- 14 gauge steel
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS Models)
- Door clamps
- Mounting feet on top and bottom
- 3/8-16 Collar studs for mounting panels
- Grounding stud on door
- Stiffeners added to enclosure sizes over 30"

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Swing Out Panels



Window Kits

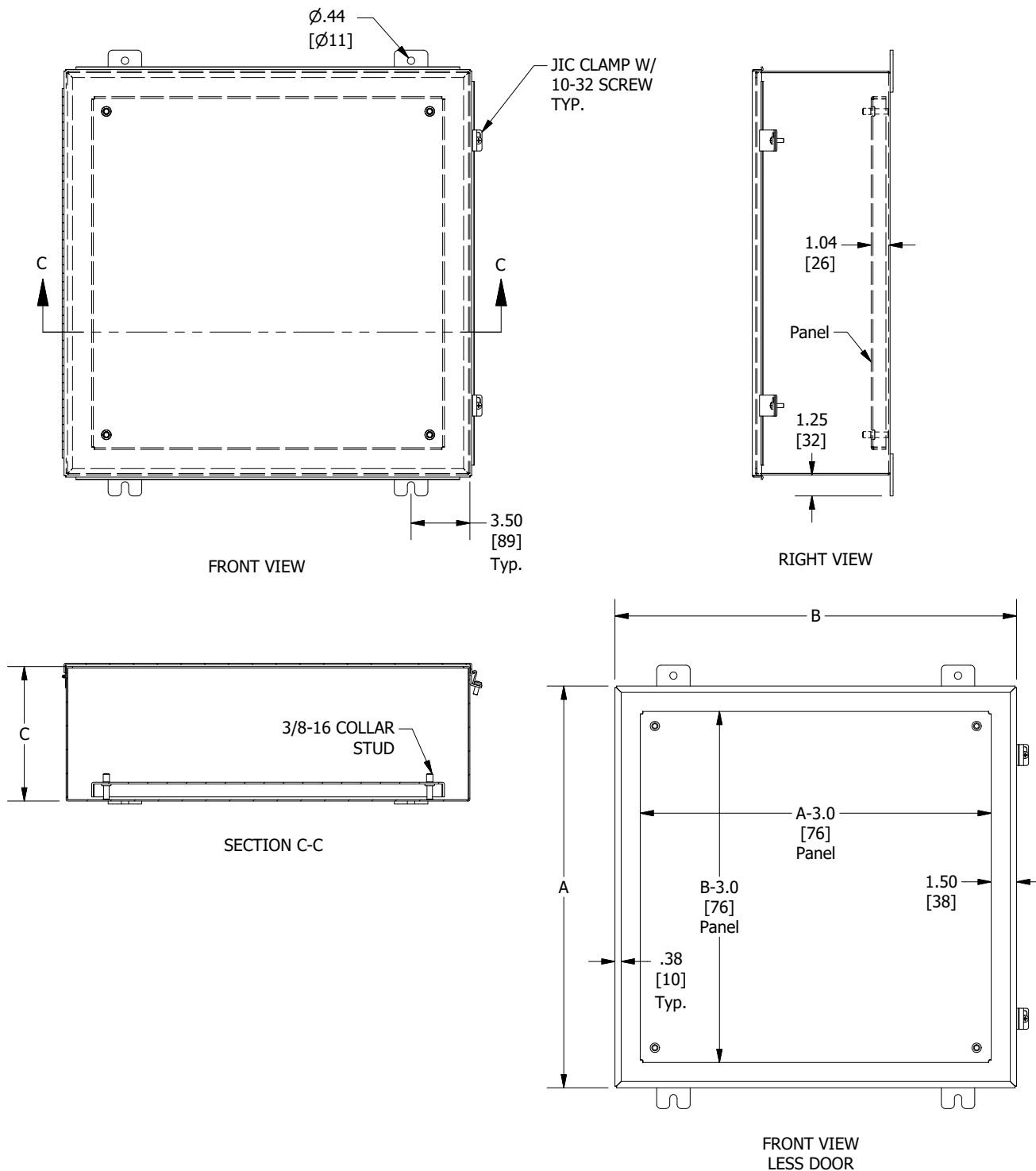


Alternative
Clamps



Knockouts/Cutouts

Extra Large Continuous Hinge Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Screw Cover Type 12

Stainless Steel Part #	Carbon Steel Part #	Aluminum Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-443SCSS	J-443SC	J-443SCAL	4 x 4 x 3	101 x 101 x 76	2
J-444SCSS	J-444SC	J-444SCAL	4 x 4 x 4	101 x 101 x 101	3
J-643SCSS	J-643SC	J-643SCAL	6 x 4 x 3	152 x 101 x 76	3
J-644SCSS	J-644SC	J-644SCAL	6 x 4 x 4	152 x 101 x 101	3
J-664SCSS	J-664SC	J-664SCAL	6 x 6 x 4	152 x 152 x 101	4
J-866SCSS	J-866SC	J-866scAL	8 x 6 x 6	203 x 152 x 152	7
J-884SCSS	J-884SC	J-884SCAL	8 x 8 x 4	203 x 203 x 101	7
J-1084SCSS	J-1084SC	J-1084SCAL	10 x 8 x 4	254 x 203 x 101	8
J-1086SCSS	J-1086SC	J-1086SCAL	10 x 8 x 6	254 x 203 x 152	10
J-10104SCSS	J-10104SC	J-10104SCAL	10 x 10 x 4	254 x 254 x 101	9
J-10106SCSS	J-10106SC	J-10106SCAL	10 x 10 x 6	254 x 254 x 152	11
J-12105SCSS	J-12105SC	J-12105SCAL	12 x 10 x 5	304 x 254 x 127	11
J-12126SCSS	J-12126SC	J-12126SCAL	12 x 12 x 6	304 x 304 x 152	15
J-14126SCSS	J-14126SC	J-14126SCAL	14 x 12 x 6	355 x 304 x 152	16
J-16146SCSS	J-16146SC	J-16146SCAL	16 x 14 x 6	406 x 355 x 152	20

Lift Off Hinge Type 12

Stainless Steel Part #	Carbon Steel Part #	Aluminum Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-443LCSS	J-443LC	J-443LCAL	4 x 4 x 3	101 x 101 x 76	3
J-444LCSS	J-444LC	J-444LCAL	4 x 4 x 4	101 x 101 x 101	3
J-643LCSS	J-643LC	J-643LCAL	6 x 4 x 3	152 x 101 x 76	3
J-644LCSS	J-644LC	J-644LCAL	6 x 4 x 4	152 x 101 x 101	3
J-664LCSS	J-664LC	J-664LCAL	6 x 6 x 4	152 x 152 x 101	4
J-863.5LCSS	J-863.5LC	J-863.5LCAL	8 x 4 x 3.5	203 x 101 x 88	6
J-1084LCSS	J-1084LC	J-1084LCAL	10 x 8 x 4	254 x 203 x 101	9
J-12105LCSS	J-12105LC	J-12105LCAL	12 x 10 x 5	304 x 254 x 127	12
J-14126LCSS	J-14126LC	J-14126LCAL	14 x 12 x 6	355 x 304 x 152	17
J-16146LCSS	J-16146LC	J-16146LCAL	16 x 14 x 6	406 x 355 x 152	21

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Clamp Cover Type 4

Carbon Steel Part #	Galvanized Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-443N4	J-443N4GLV	4 x 4 x 3	101 x 101 x 76	2
J-643N4	J-643N4GLV	6 x 4 x 3	152 x 101 x 76	3
J-664N4	J-664N4GLV	6 x 6 x 4	152 x 152 x 101	4
J-863.5N4	J-863.5N4GLV	8 x 6 x 3	203 x 152 x 88	7
J-1084N4	J-1084N4GLV	10 x 8 x 4	254 x 203 x 101	7
J-12105N4	J-12105N4GLV	12 x 10 x 5	304 x 254 x 127	11
J-14126N4	J-14126N4GLV	14 x 12 x 6	355 x 304 x 152	15
J-16146N4	J-16146N4GLV	16 x 14 x 6	406 x 355 x 152	16

Continuous Hinge Type 4/4X

Stainless Steel Part #	Carbon Steel Part #	Aluminum Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-443CHN4X-SS	J-443N4	J-443N4AL	4 x 4 x 3	101 x 101 x 76	2
J-664CHN4X-SS	J-664N4	J-664N4AL	6 x 6 x 4	152 x 152 x 101	3
J-864CHN4X-SS	J-864N4	J-864N4AL	8 x 6 x 4	203 x 152 x 101	6
J-1084CHN4X-SS	J-1084N4	J-1084N4AL	10 x 8 x 4	254 x 203 x 101	9
J-12106CHN4X-SS	J-12106N4	J-12106N4AL	12 x 10 x 6	304 x 254 x 152	14
J-12126CHN4X-SS	J-12126N4	J-12126N4AL	12 x 12 x 6	304 x 304 x 152	14
J-14126CHN4X-SS	J-14126N4	J-14126N4AL	14 x 12 x 6	355 x 304 x 152	17
J-16146CHN4X-SS	J-16146N4	J-16146N4AL	16 x 14 x 6	406 x 355 x 152	20

Continuous Hinge Type 12

Stainless Steel Part #	Carbon Steel Part #	Aluminum Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-443CHSS	J-443CH	J-443CHAL	4 x 4 x 3	101 x 101 x 76	2
J-444CHSS	J-444CH	J-444CHAL	4 x 4 x 4	101 x 101 x 101	3
J-643CHSS	J-643CH	J-643CHAL	6 x 4 x 3	152 x 101 x 76	3
J-664CHSS	J-664CH	J-664CHAL	6 x 6 x 4	152 x 152 x 101	4
J-864CHSS	J-864CH	J-864CHAL	8 x 6 x 4	152 x 152 x 101	6
J-1084CHSS	J-1084CH	J-1084CHAL	10 x 8 x 4	254 x 203 x 101	8
J-12106CHSS	J-12106CH	J-12106CHAL	12 x 10 x 6	304 x 254 x 152	12
J-14126CHSS	J-14126CH	J-14126CHAL	14 x 12 x 6	355 x 304 x 152	17
J-16146CHSS	J-16146CH	J-16146CHAL	16 x 14 x 6	406 x 355 x 152	20
J-16148CHSS	J-16148CH	J-16148CHAL	16 x 14 x 8	406 x 355 x 203	23

Popular Standard Enclosures

Extra Large Continuous Hinge Type 12

Additional & Custom sizing available
contact factory for details

Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
J-20H16A	20 x 16 x 7	508 x 406 x 177	31
J-20H20A	20 x 20 x 7	508 x 508 x 177	36
J-24H20A	24 x 20 x 7	609 x 508 x 177	41
J-24H24A	24 x 24 x 7	609 x 609 x 177	48
J-30H20A	30 x 20 x 7	762 x 508 x 177	49
J-30H24A	30 x 24 x 7	762 x 609 x 177	58
J-36H24A	36 x 24 x 7	914 x 609 x 177	66
J-20H16B	20 x 16 x 9	508 x 406 x 228	36
J-20H20B	20 x 20 x 9	508 x 508 x 228	36
J-24H20B	24 x 20 x 9	609 x 508 x 228	47
J-24H24B	24 x 24 x 9	609 x 609 x 228	52
J-30H20B	30 x 20 x 9	762 x 508 x 228	54
J-30H24B	30 x 24 x 9	762 x 609 x 228	66
J-36H24B	36 x 24 x 9	914 x 609 x 228	76
J-36H30B	36 x 30 x 9	914 x 762 x 228	90
J-42H30B	42 x 30 x 9	1066 x 762 x 228	102
J-42H36B	42 x 36 x 9	1066 x 914 x 228	121
J-24H24C	24 x 24 x 11	609 x 609 x 279	57
J-36H24C	36 x 24 x 11	914 x 609 x 279	80
J-48H36C	48 x 36 x 11	1219 x 914 x 279	155
J-30H24D	30 x 24 x 13	762 x 609 x 330	72
J-36H30D	36 x 30 x 13	914 x 762 x 330	104



CONSOLE ENCLOSURES

Console enclosures lift controls to a comfortable eye level for viewing and programming. Optional tops and desks can be added for instrument spacing.

POPULAR APPLICATIONS

- Conveyor Systems
- Weapon / Supply Systems for military use
- Crane Control Systems
- Water Treatment
- System Integrators



EC Modular Console Type 4/12



PART NUMBERS ON PAGE 81



CSA - UL/cUL Listed, IEC 60529, IP66/52

Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Oil resistant gasketed doors
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Three-point keyed locking latches on lower doors
- Captivated screws hold control panel secure in closed position
- Cable stop holds control panel door open at 90 degrees
- Unistrut rails for mounting panels or rack angles
- Grounding studs on lower door
- Desks and tops can be ordered separately or assembled as complete unit
- One and two door configurations available

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coat color options!

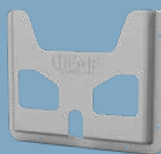
Popular Add-Ons



Sub Panels



Alternative
Handles



Print Pockets

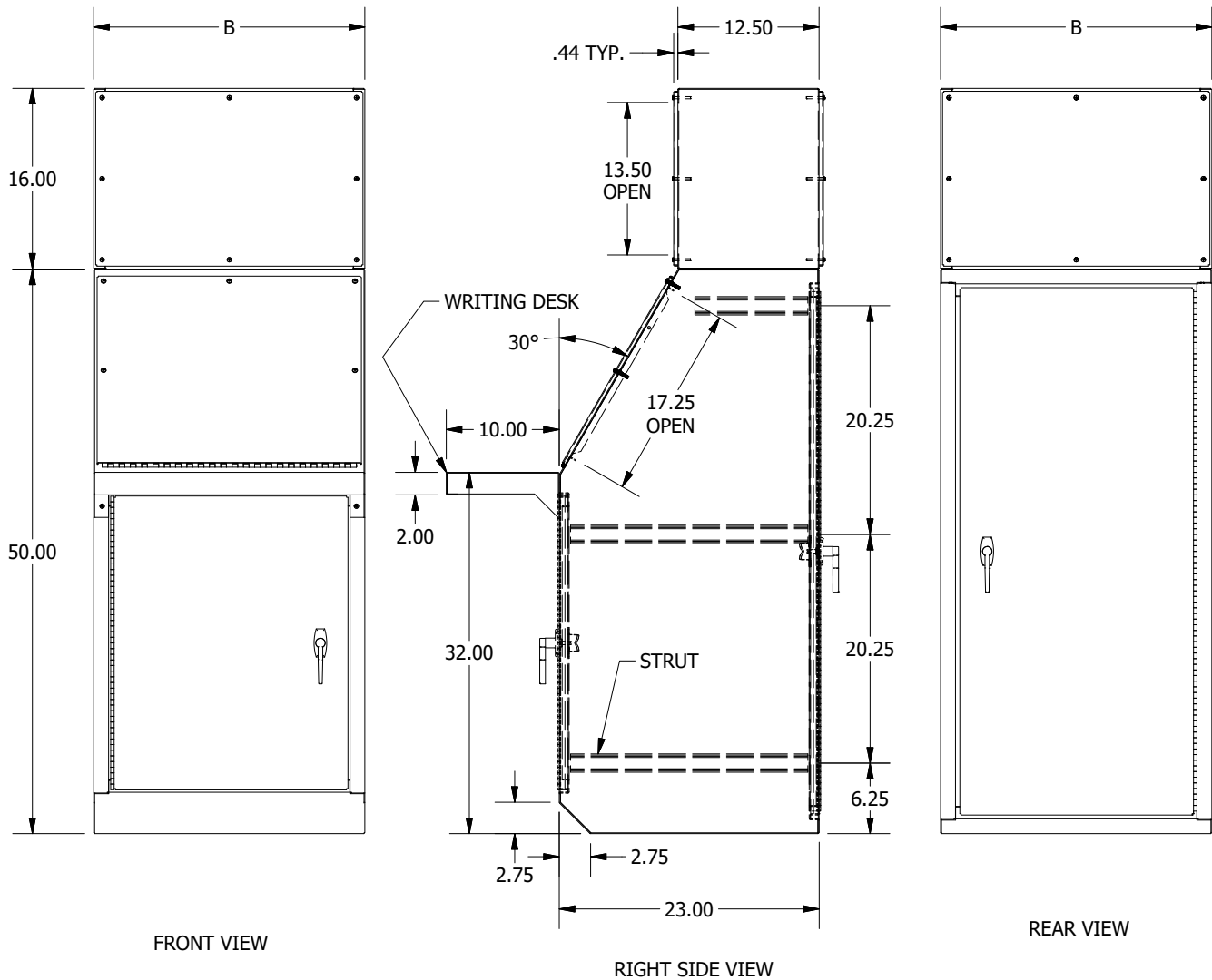


Louvers



Caster Kits

EC Modular Console Type 4/12



SINGLE DOOR EC SERIES CONSOLE

For more information and detailed drawing files, visit www.emfcompany.com

OTC Modular Console Type 4/12



PART NUMBERS ON PAGE 81



CSA - UL/cUL Listed, IEC 60529, IP66/52

Standard Specifications

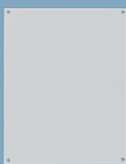
- 14 gauge steel, 304 or 316 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Oil resistant gasketed doors
- Continuous hinge with stainless steel sin (Stainless Steel Hinge on SS Models)
- Three-point keyed locking latches on lower doors
- Captivated screws hold control panel secure in closed position
- Cable stop holds control panel door open at 90°
- 3/8-16 Collar studs for mounting panels
- Grounding stud on lower door
- Desks and tops can be ordered separately or assembled as complete unit
- One and two door configurations available

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coat color options!

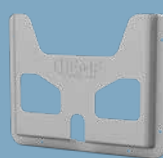
Popular Add-Ons



Sub Panels



Alternative
Handles



Print Pockets

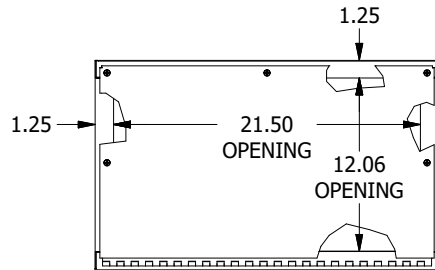


Louvers

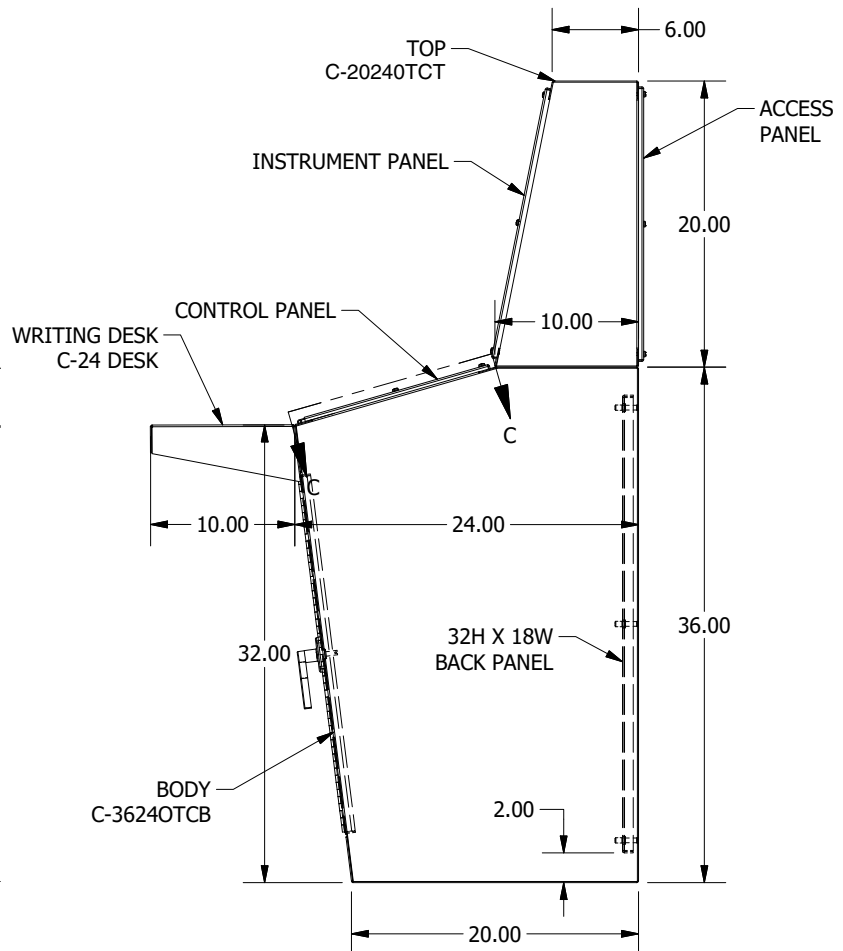
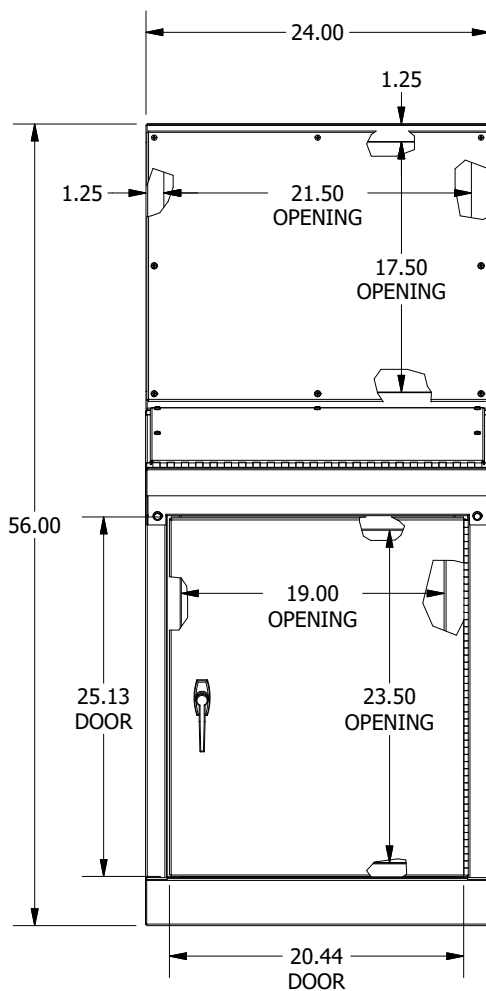


Caster Kits

OTC Modular Console Type 4/12



SECTION C-C
CONTROL PANEL VIEW



For more information and detailed drawing files, visit www.emfcompany.com

CAB Console Cabinet Type 4/12



PART NUMBERS ON PAGE 81



CSA - UL/cUL Listed, IEC 60529, IP66/52

Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel, or 0.08 5052 aluminum
- Seams continuously welded and ground smooth
- Oil resistant gasketed doors
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS Models)
- Three-point keyed locking latches on lower doors
- Captivated screws hold control panel secure in closed position
- Cable stop holds control panel door open at 90°
- 3/8-16 Collar studs for mounting panels
- Grounding stud on lower door
- One and two door configurations available

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coat color options!

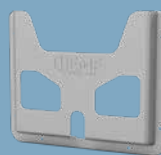
Popular Add-Ons



Sub Panels



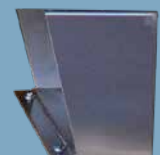
Alternative
Handles



Print Pockets

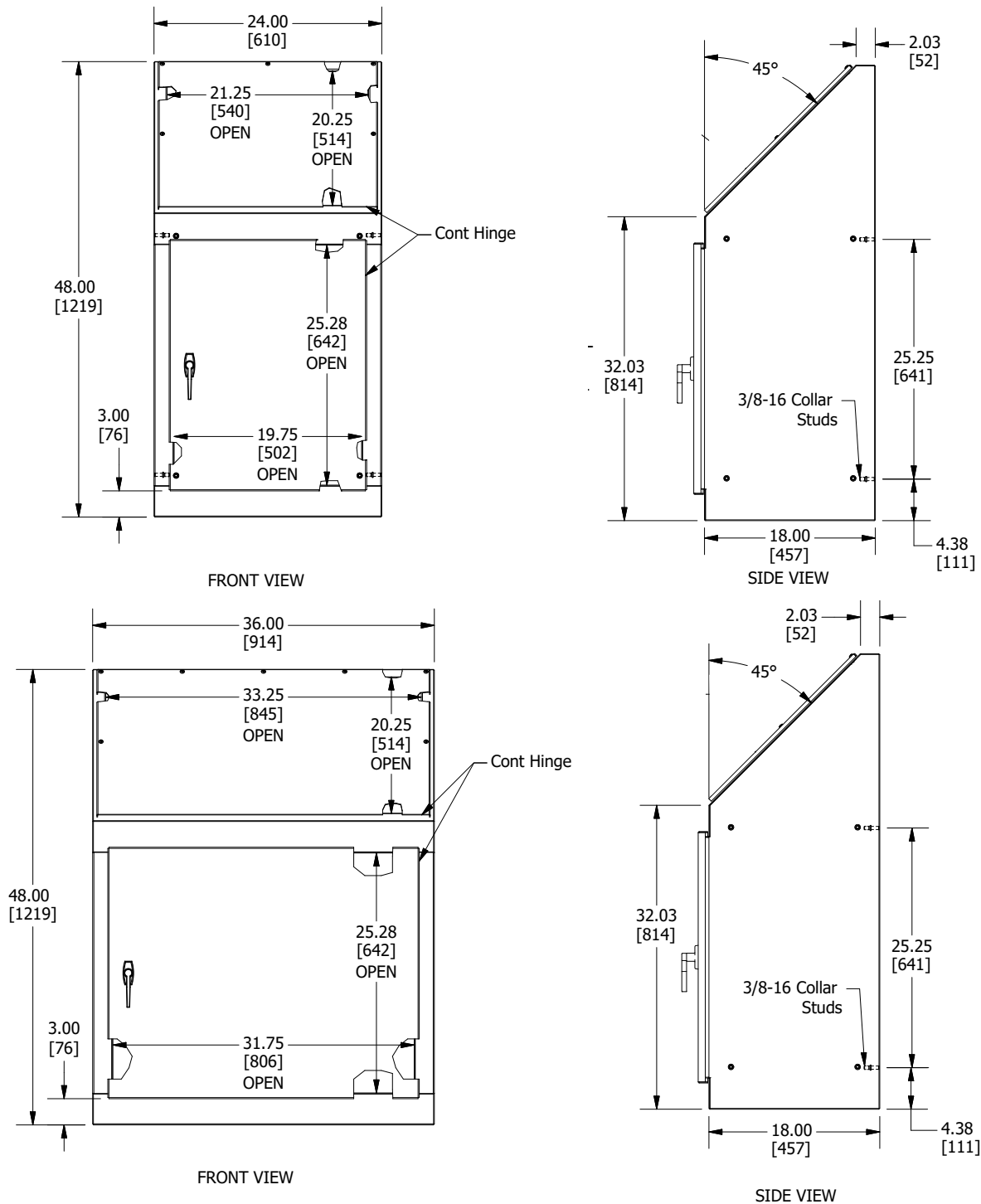


Louvers



Floor Stand Kit

CAB Console Cabinet Type 4/12



For more information and detailed drawing files, visit www.emfcompany.com

New Generation Console Type 12



Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Oil resistant gasketed doors
- Lift off hinges on lower doors
- Three-point keyed locking latches on lower doors
- Control panel surface is free of hardware for easy component installation
- Open bottom with sealing gland plates for easy floor mounting
- 3/8-16 Collar studs for mounting panels
- Grounding studs on lower door
- One and two door configurations available

PART NUMBERS ON PAGE 81

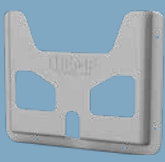


Finish

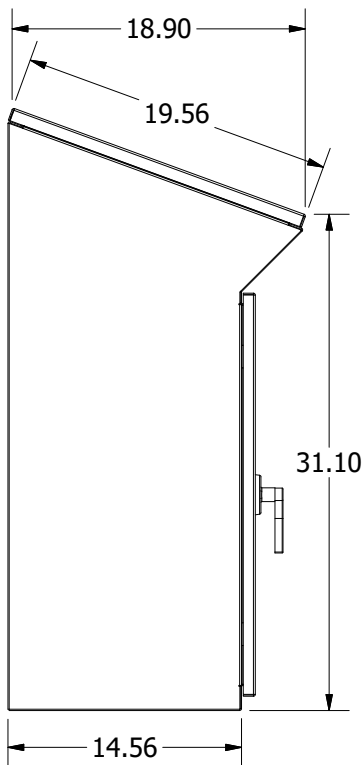
All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coat color options!

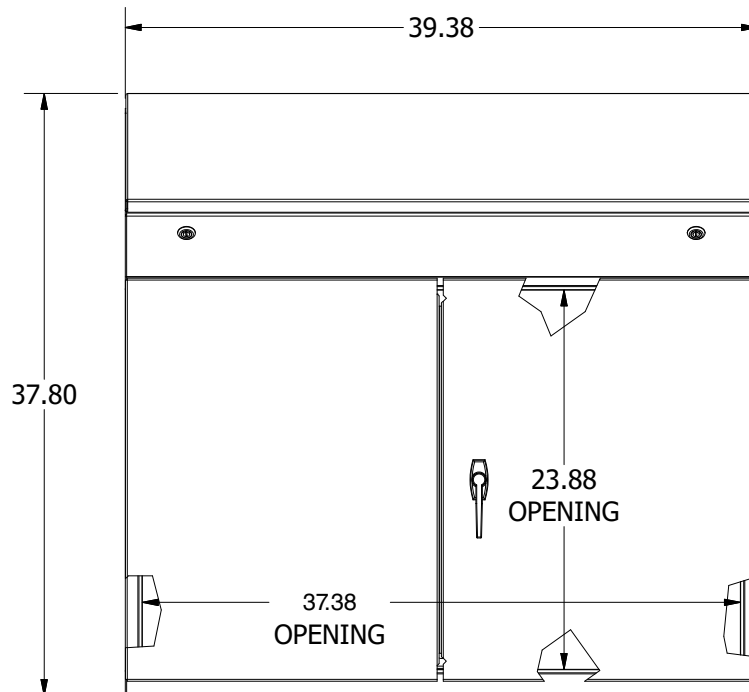
Popular Add-Ons

 Sub Panels	 Alternative Handles	 Print Pockets	 Door Stops & Gas Shocks	 Plinths
---	--	--	--	--

New Generation Console Type 12



SIDE VIEW



FRONT VIEW

For more information and detailed drawing files, visit www.emfcompany.com

Consolet Type 12



Standard Specifications

- 14 gauge steel
- Seams continuously welded and ground smooth
- Oil resistant gasket
- Continuous hinge with stainless steel pin (Stainless Steel Hinges on SS Models)
- Captivated screws hold control panel door closed
- Can be mounted with slope top at 30° or 60°
- 3/8-16 Collar studs for mounting panels

PART NUMBERS ON PAGE 81



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coating inside and out for carbon steel enclosures
- Ask about custom powder coat color options!

Popular Add-Ons



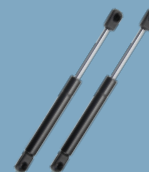
Sub Panels



Key Locking
Quarter Turn Latch



Knock Outs/
Cut Outs

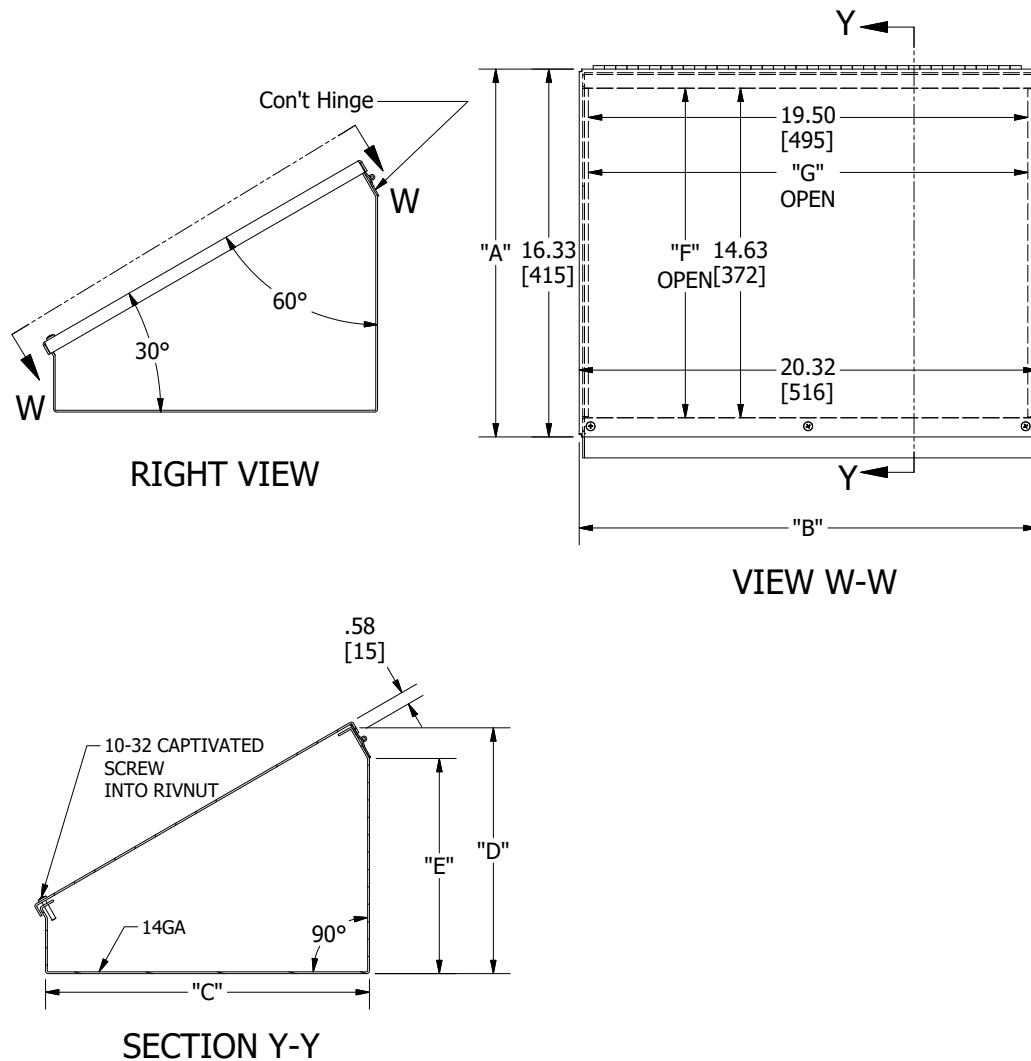


Door Stops &
Gas Shocks



Pedestals for
Floor Mounting

Consolet Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

EC Modular Console Type 4/12

Product Part #	Description
EC-XXXXBD	1 Door Console Body NEMA 12
EC-XXXXBD-2DR	2 Door Console Body NEMA 12
EC-XXXXN4BD	1 Door Console Body NEMA 4
EC-XXXXN42DBD	2 Door Console Body NEMA 4
EC-XXXXN4XSBD	1 Door Console Body NEMA 4X
EC-XXXXN4XS2DBD	2 Door Console Body NEMA 4X
EC-XXXXT	Console Top NEMA 12
EC-XXN4TOP	Console Top NEMA 4
EC-XXN4XSSTOP	Console Top NEMA 4X
EC-XXXXWN4DESK	EC Writing Desk NEMA 4

OTC Modular Console Type 4/12

Product Part #	Description
C-XXXXOTC	1 Door Console Body NEMA 12
C-XXXXOTC-2DR	2 Door Console Body NEMA 12
C-XXXXN4OTC	1 Door Console Body NEMA 4
C-XXXXXXN4OTC2D	2 Door Console Body NEMA 4
C-XXXXXXN4XSOTC	1 Door Console Body NEMA 4X
C-XXXXXXN4XS2OTC	2 Door Console Body NEMA 4X
C-XXXXOTCT	OTC Console Top NEMA 12
C-XXXXXXN4OTCT	OTC Console Top NEMA 4
C-XXN4OTCDESK	OTC Console Desk NEMA 4
C-XXXXXXN4XSOTCT	OTC Console Top NEMA 4X
C-XXN4XSOTCDESK	OTC Console Desk NEMA 4X

New Generation Type 12

Stainless Steel Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)
NGC-235	NGC-235	37 x 23 x 14	960 x 597 x 371	95
NGC-315	NGC-315	37 x 31 x 14	960 x 800 x 371	120
NGC-395	NGC-395	37 x 39 x 14	960 x 1000 x 371	145
NGC-475	NGC-475	37 x 47 x 14	960 x 1200 x 371	161

TIP: Modular consoles & consolets are built to your specifications. Part numbers on this page show the products and NEMA standards available. Dimensions are represented with "XX".

Additional options & custom sizing available contact factory for details.

CAB Console Cabinets Type 4/12

Product Part #	Description
C-XXXXCAB	1 Door Console NEMA 12
C-XXXXCAB-2DR	2 Door Console NEMA 12
C-XXXXN4CAB	1 Door Console NEMA 4
C-XXXXN4CAB2D	2 Door Console NEMA 4
C-XXXXN4XS CAB	1 Door SS Console NEMA 4X
C-XXXXN4XS2CAB	2 Door SS Console NEMA 4X

Consolet Type 4/12

Product Part #	Description
C-XXXXOTC-SP	Custom Consolet NEMA 12
C-XXXXN4OTC-SP	Custom Consolet NEMA 4



DISCONNECT ENCLOSURES

EMF disconnect enclosures can be equipped with multiple major brand disconnect switches while maintaining required NEMA protection rating.

POPULAR APPLICATIONS

- Food Processing
- Pharmaceutical Manufacturing
- Material Unloader Systems



One Door Wall Mount Type 4/4X



PART NUMBERS ON PAGE 95



CSA - UL/cUL Listed, IEC 60529, IP66

Standard Specifications

- 14 gauge steel, 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel hinge on SS models)
- Stainless steel door clamps
- Mounting feet on top and bottom
- Collar studs for mounting panels
- Grounding stud on door
- Pivot posts and interlock bracket welded to door
- Precut holes for Disconnect Operating Mechanism

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat outside, white powder coat inside for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Clamps



Window Kits

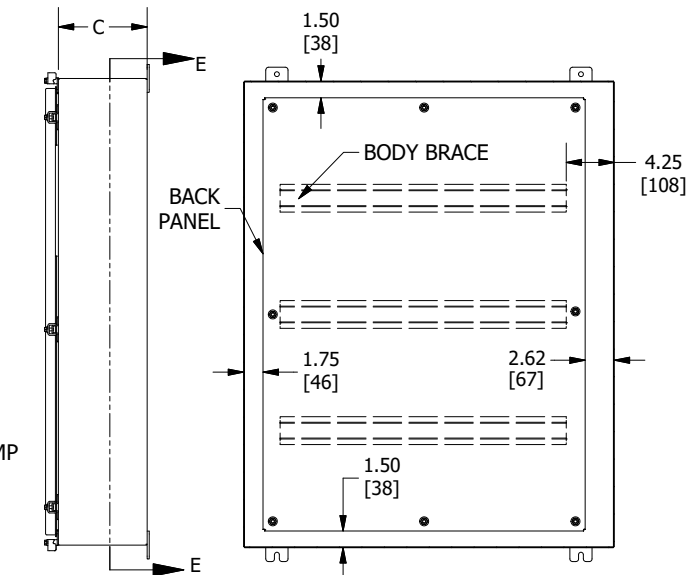
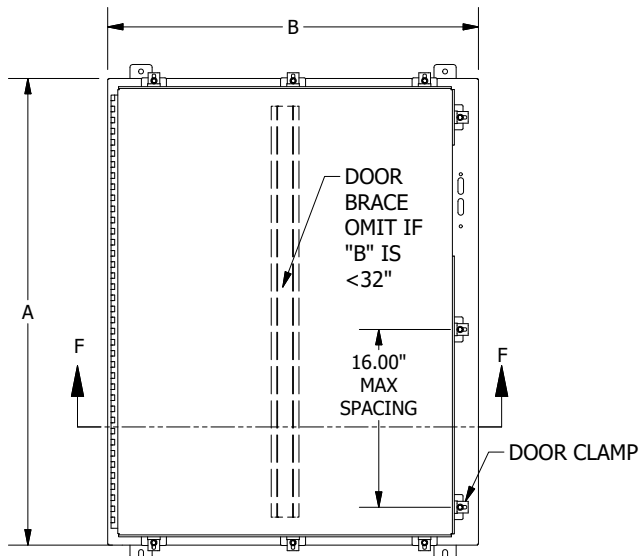


Louvers



Key Locking
Quarter Turn Latch

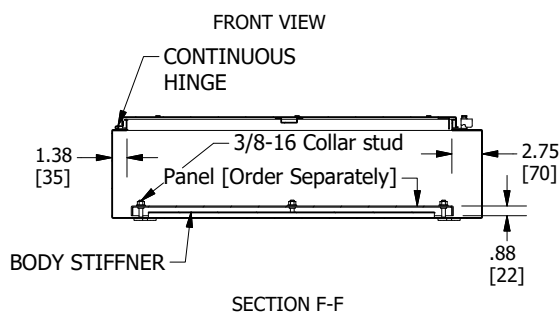
One Door Wall Mount Type 4/4X



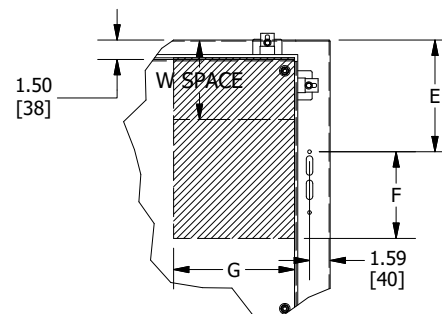
SECTION E-E

R-SIDE VIEW

NOTE: OMIT BODY BRACE WHEN A & B < 30"



SECTION F-F



DISCONNECT MOUNTING SPACE

NOTE

1. "E" IS 8.62 [219] WHEN "C" IS 8.00 [203]
2. "E" IS 11.62 [219] WHEN "C" IS $\geq$ 12.00 [203]
3. **VERIFY YOUR APPLICATION TO DETERMINE IF WIRING SPACE IS ADEQUATE FOR "F", "G", "W"**

For more information and detailed drawing files, visit www.emfcompany.com

One Door Wall Mount Type 12



Standard Specifications

- 14 gauge steel, 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Cut out for customer-supplied door latch
- Latch bar included
- Door handle included on "PL" models
- Mounting feet on top and bottom
- Collar studs for mounting panels
- Grounding stud on door
- Pivot posts and interlock bracket welded to door
- Precut holes for disconnect operating mechanism

PART NUMBERS ON PAGE 95



CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits

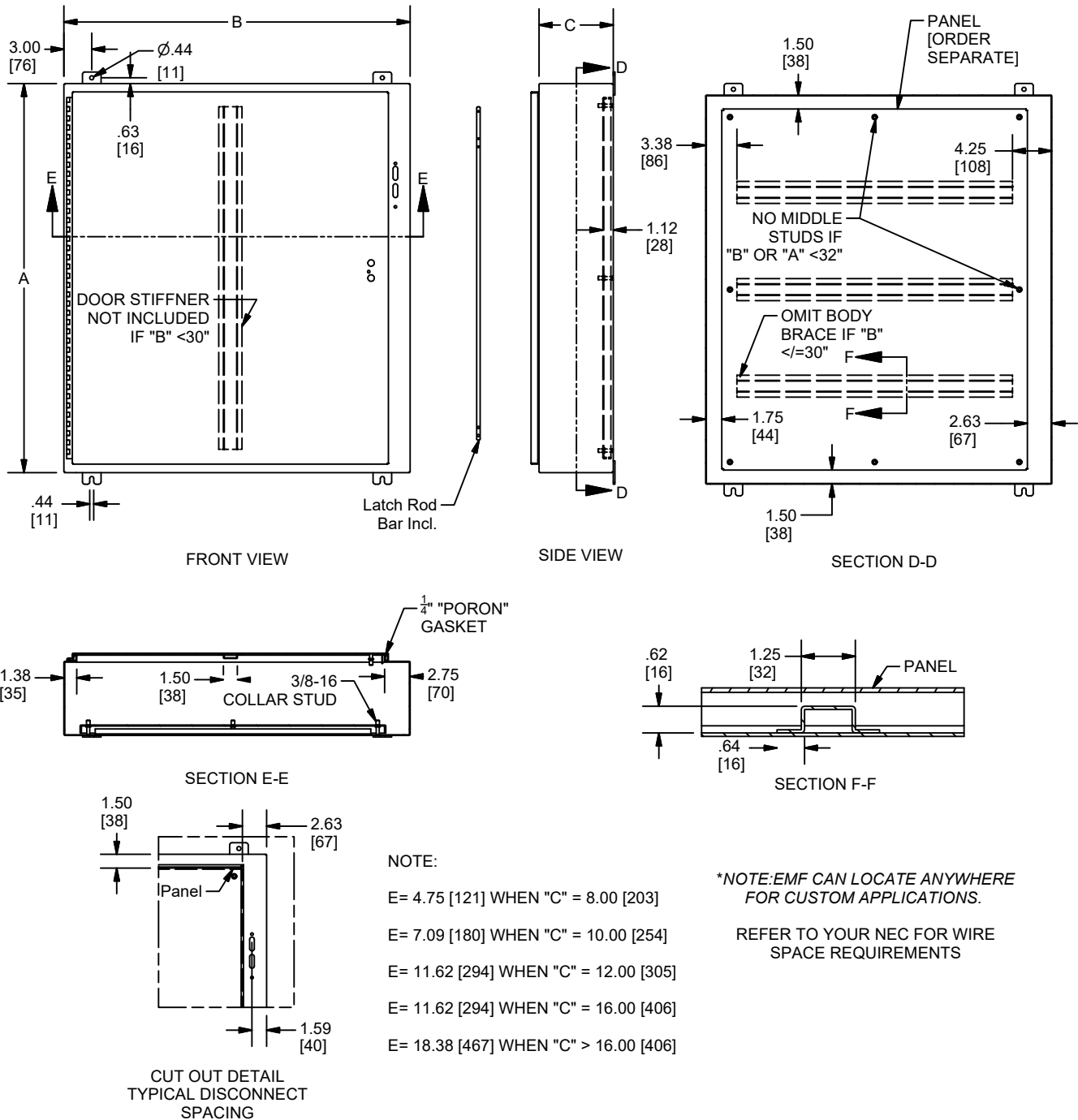


Louvers



Key Locking
Quarter Turn Latch

One Door Wall Mount Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Two Door Floor Mount Type 4/4X



PART NUMBERS ON PAGE 96



CSA - UL/cUL Listed, IEC 60529, IP66

Standard Specifications

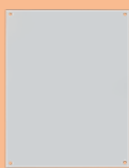
- 10 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Heavy-duty three point locking handle
- Slotted quarter turn latches
- 15" legs with precut holes for floor mounting
- 3/8-16 Collar studs and panel supports for mounting panels
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for rigidity
- Removable center post
- Pivot posts and interlock bracket welded to door
- Precut holes for disconnect operating mechanism

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits

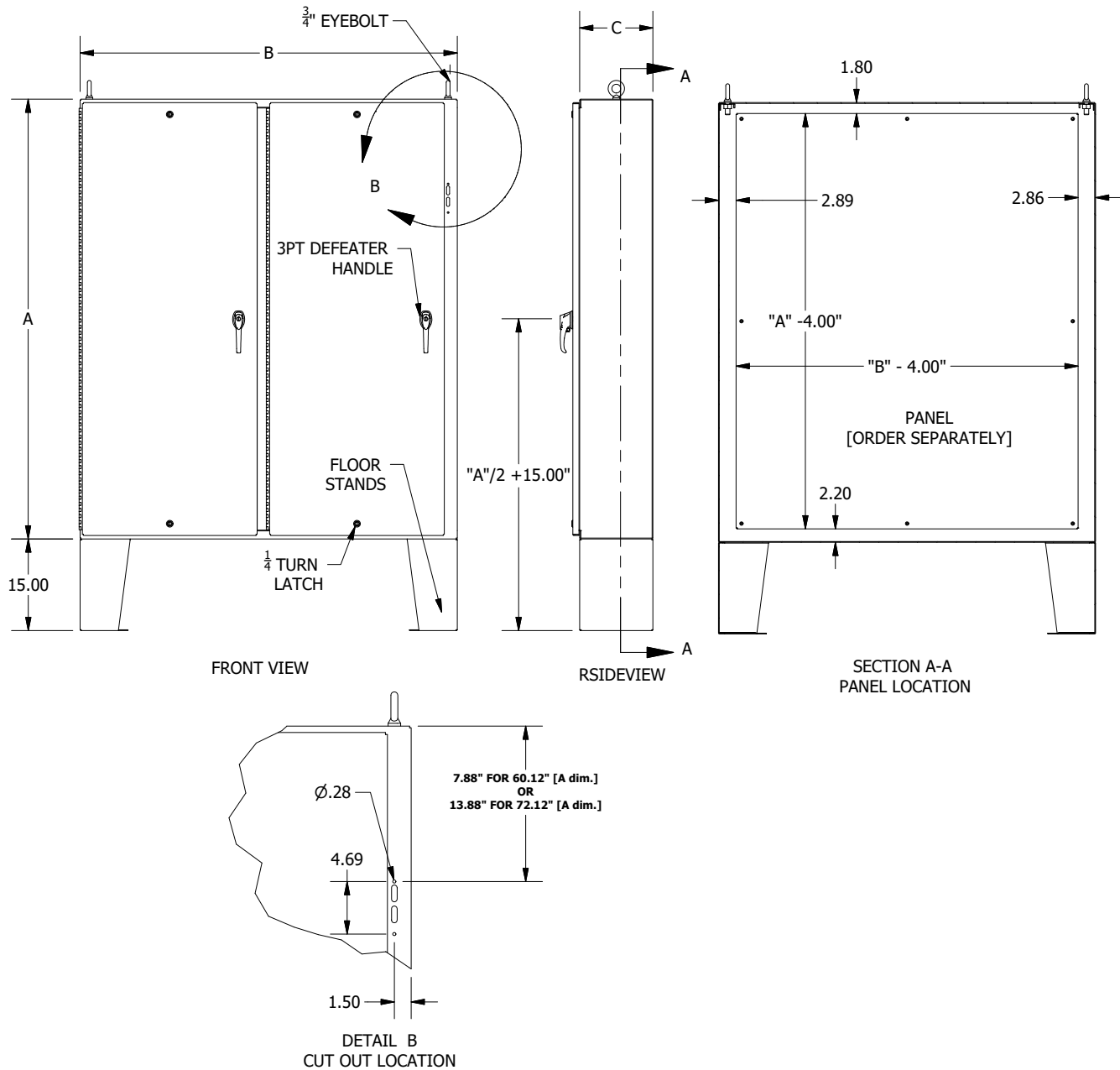


Louvers



Disconnect
Adapter Plates

Two Door Floor Mount Type 4/4X



For more information and detailed drawing files, visit www.emfcompany.com

Two Door Floor Mount Type 12



PART NUMBERS ON PAGE 97



CSA - UL/cUL Listed, IEC 60529, IP52

Standard Specifications

- 10 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (stainless steel hinge on SS models)
- Three-point latch handle
- 15" legs with precut holes for floor mounting
- 3/8-16 Collar studs and panel supports for mounting panels
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for rigidity
- Right flange or center post disconnect options
- Pivot posts and interlock bracket welded to door
- Precut holes for disconnect operating mechanism

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits

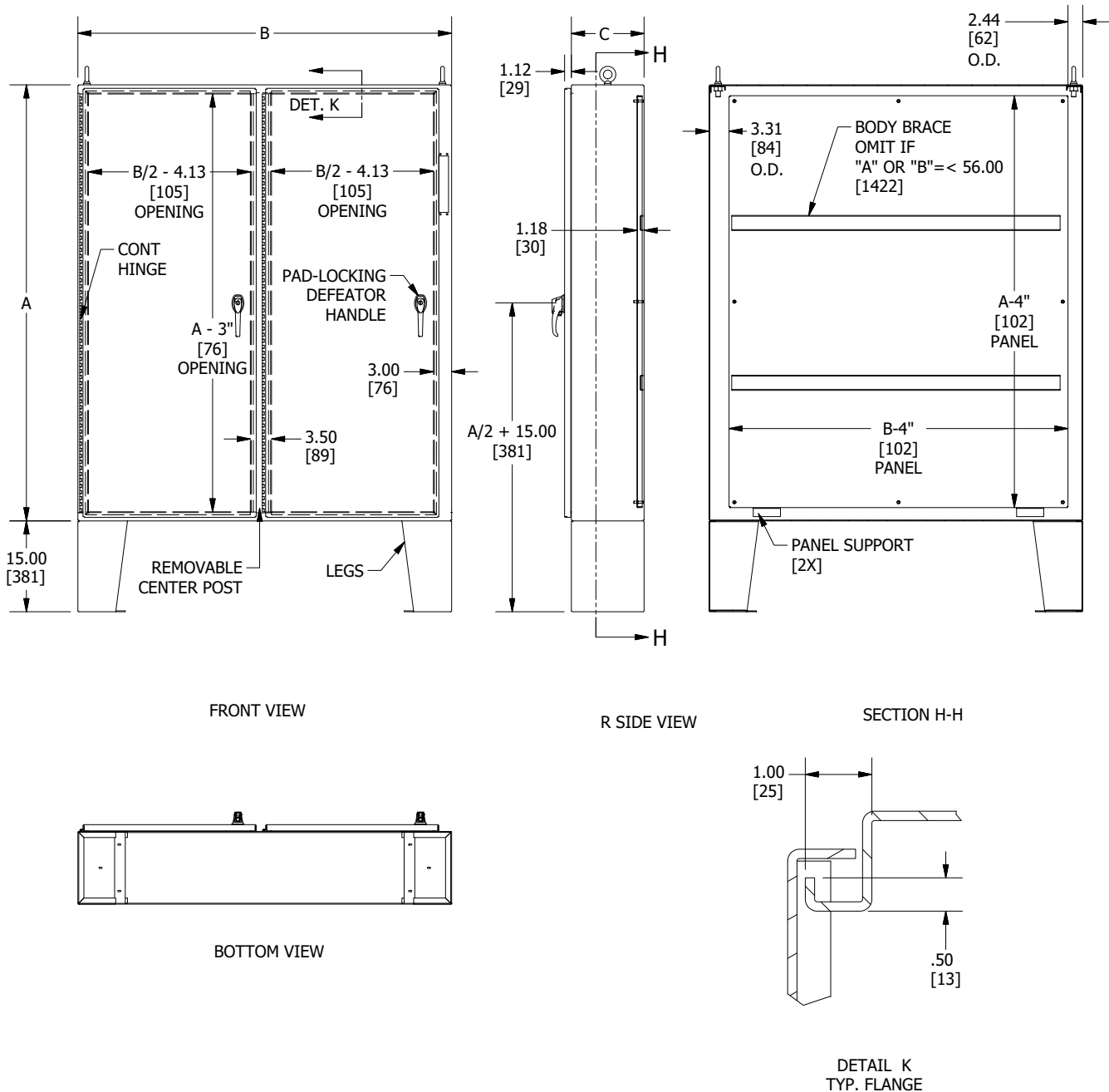


Louvers



Disconnect
Adapter Plates

Two Door Floor Mount Type 12



For more information and detailed drawing files, visit www.emfcompany.com

One Door Freestanding Type 12



PART NUMBERS ON PAGE 98



CSA - UL/cUL Listed, IEC 60529, IP52

Standard Specifications

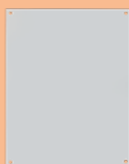
- 10 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Heavy-duty three point locking handle
- Pre-cut holes for floor mounting
- 3/8-16 Collar studs and panel supports for mounting panels – panel included
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for rigidity
- Removable center post
- Mechanical interlocks included
- Universal cut out on right flange for disconnect (operator adapter kit to be ordered separately)

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits

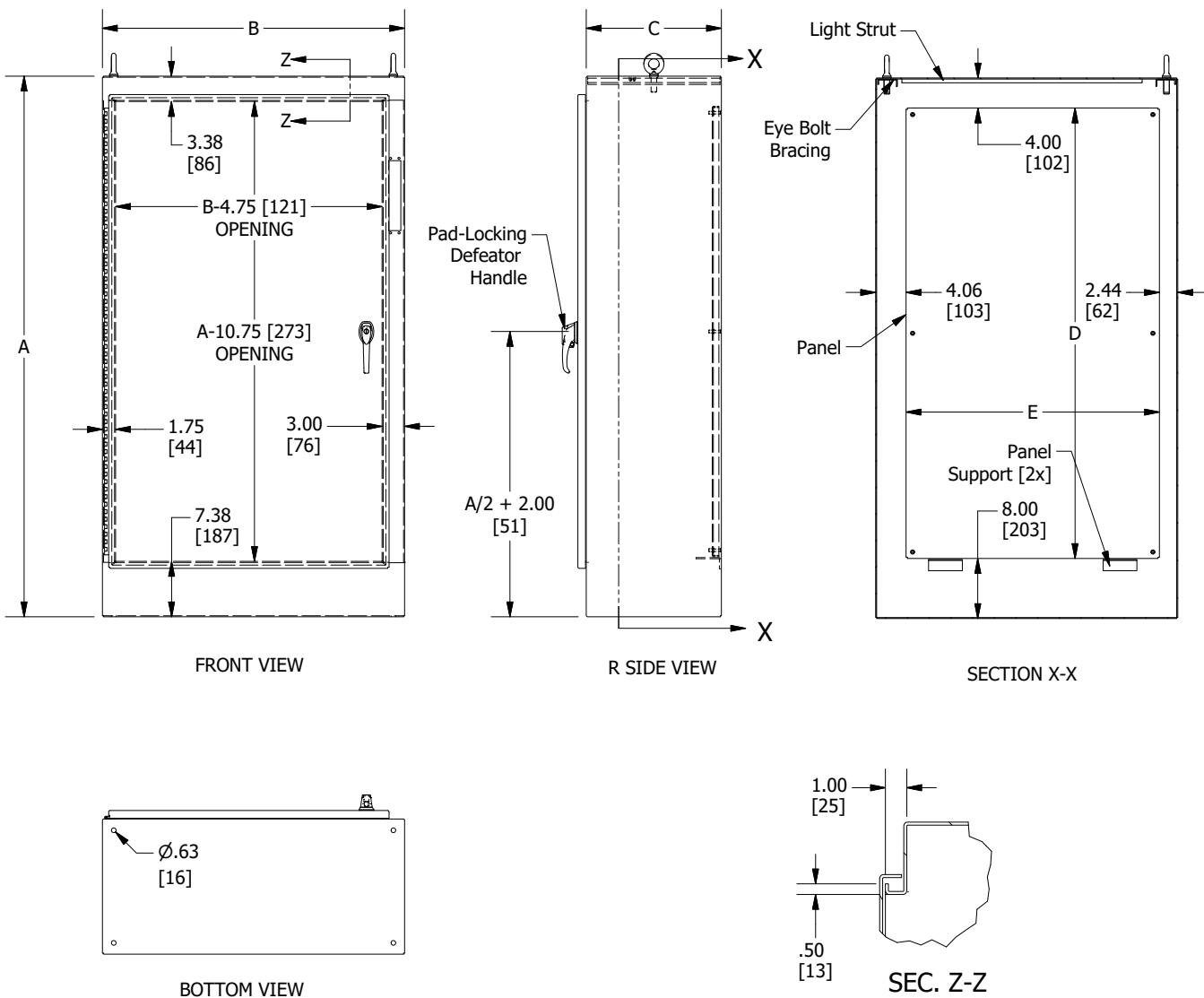


Louvers



Disconnect
Adapter Plates

One Door Freestanding Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Multi Door Freestanding Type 12



Standard Specifications

- 10 gauge steel or 304 stainless steel
- Seams continuously welded and ground smooth
- Hybrid sealing flange around all sides of door
- Oil resistant gasket
- Gasket retainer on steel enclosures
- Continuous hinge with stainless steel pin (Stainless Steel Hinge on SS models)
- Heavy-duty three point locking handle
- Pre-cut holes for floor mounting
- 3/8-16 Collar studs and panel supports for mounting panels – panel included
- Grounding stud on door
- 3/4" Heavy duty lifting eyes
- Stiffeners added for rigidity
- Removable center post
- Mechanical interlocks included
- Universal cut out on right flange for disconnect (operator adapter kit to be ordered separately)

PART NUMBERS ON PAGE 98



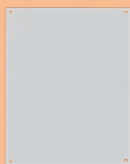
CSA - UL/cUL Listed, IEC 60529, IP52

Finish

All enclosures can be formed out of Stainless Steel, Aluminum, or Carbon Steel

- Brushed & blended finish for stainless steel and aluminum enclosures
- ANSI 61 gray powder coat inside and out for carbon steel enclosures

Popular Add-Ons



Sub Panels



Alternative
Handles



Window Kits

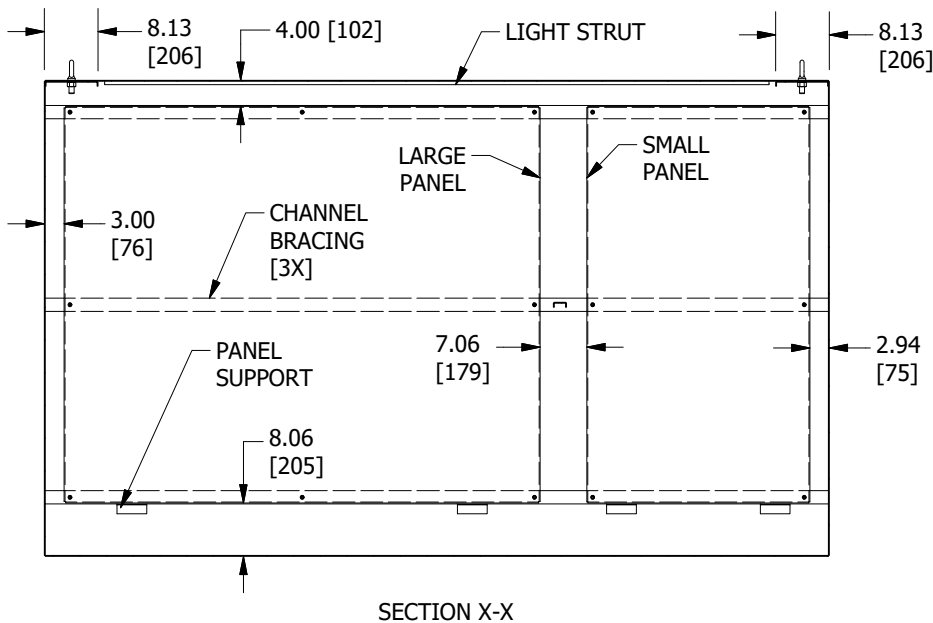
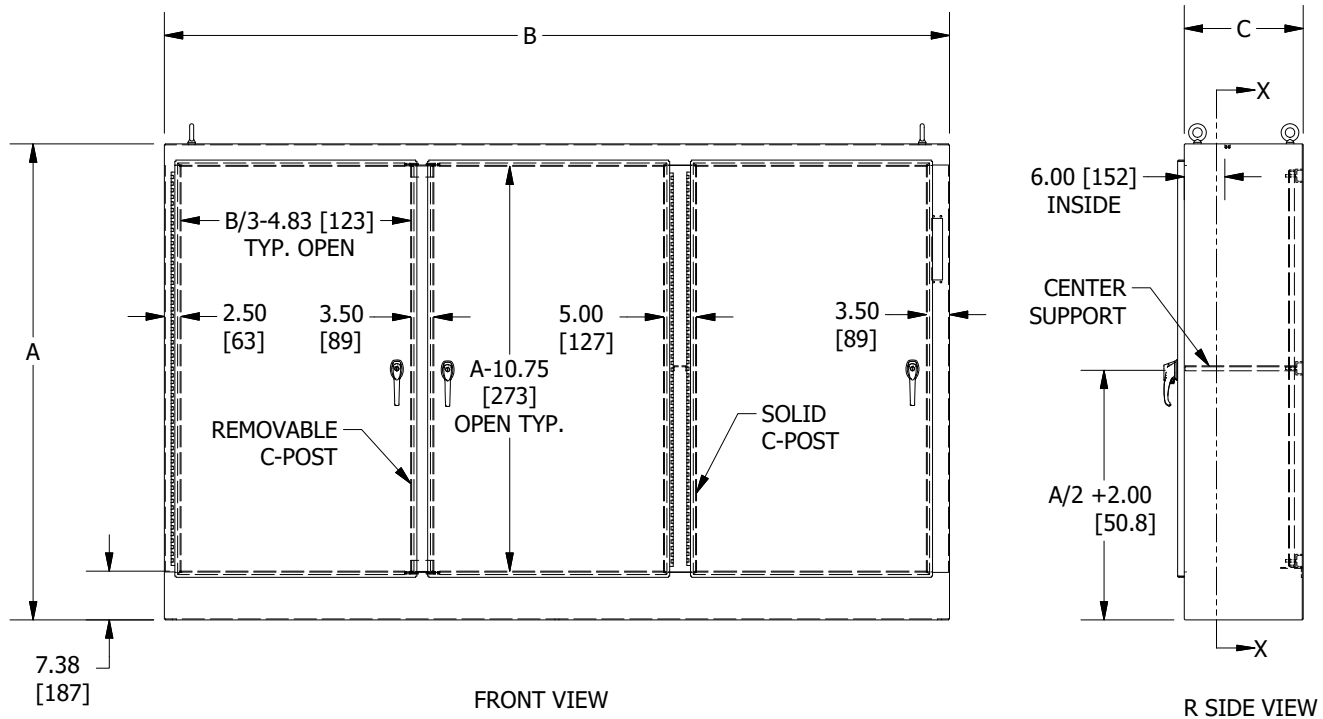


Louvers



Disconnect
Adapter Plates

Multi Door Freestanding Type 12



For more information and detailed drawing files, visit www.emfcompany.com

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Wall Mount Type 4/4X

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F-202108N4XSSDC	F-202108N4X6SSDC	F-202108N4DC	20 X 21 X 8	508 X 543 X 203	42	E-2020P	17 X 17
F-202110N4XSSDC	F-202110N4X6SSDC	F-202110N4DC	20 X 21 X 10	508 X 543 X 254	46	E-2020P	17 X 17
F-242510N4XSSDC	F-242510N4X6SSDC	F-242510N4DC	24 X 25 X 10	610 X 645 X 254	60	E-2424P	21 X 21
F-302108N4XSSDC	F-302108N4X6SSDC	F-302108N4DC	30 X 21 X 8	762 X 543 X 203	58	E-3020P	27 X 17
F-302512N4XSSDC	F-302512N4X6SSDC	F-302512N4DC	30 X 25 X 12	762 X 645 X 305	76	E-3024P	27 X 21
F-362508N4XSSDC	F-362508N4X6SSDC	F-362508N4DC	36 X 25 X 8	914 X 645 X 203	76	E-3624P	33 X 21
F-363112N4XSSDC	F-363112N4X6SSDC	F-363112N4DC	36 X 31 X 12	914 X 797 X 305	106	E-3630P	33 X 27
F-363116N4XSSDC	F-363116N4X6SSDC	F-363116N4DC	36 X 31 X 16	914 X 797 X 406	117	E-3630P	33 X 27
F-423710N4XSSDC	F-423710N4X6SSDC	F-423710N4DC	42 X 37 X 10	1067 X 949 X 254	132	E-4236P	39 X 33
F-483708N4XSSDC	F-483708N4X6SSDC	F-483708N4DC	48 X 37 X 8	1219 X 949 X 203	137	E-4836P	45 X 33
F-483716N4XSSDC	F-483716N4X6SSDC	F-483716N4DC	48 X 37 X 16	1219 X 949 X 406	168	E-4836P	45 X 33
F-603712N4XSSDC	F-603712N4X6SSDC	F-603712N4DC	60 X 37 X 12	1524 X 949 X 305	183	E-6036P	57 X 33
F-603716N4XSSDC	F-603716N4X6SSDC	F-603716N4DC	60 X 37 X 16	1524 X 949 X 406	200	E-6036P	57 X 33

One Door Wall Mount Type 12

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-202108SSDC	E-202108316DC	E-202108DC	20 X 21 X 8	508 X 543 X 203	42	E-2020P	17 X 17
E-202110SSDC	E-202110316DC	E-202110DC	20 X 21 X 10	508 X 543 X 254	46	E-2020P	17 X 17
E-242510SSDC	E-242510316DC	E-242510DC	24 X 24 X 10	610 X 619 X 254	60	E-2424P	21 X 21
E-302108SSDC	E-302108316DC	E-302108DC	30 X 21 X 8	762 X 543 X 203	58	E-3020P	27 X 17
E-302512SSDC	E-302512316DC	E-302512DC	30 X 24 X 12	762 X 619 X 305	76	E-3024P	27 X 21
E-362508SSDC	E-362508316DC	E-362508DC	36 X 24 X 8	914 X 619 X 203	76	E-3624P	33 X 21
E-423108SSDC	E-423108316DC	E-423108DC	42 X 31 X 8	1067 X 797 X 203	105	E-4230P	39 X 27
E-423712SSDC	E-423712316DC	E-423712DC	42 X 37 X 12	1067 X 949 X 305	138	E-4236P	39 X 33
E-483708SSDC	E-483708316DC	E-483708DC	48 X 37 X 8	1219 X 949 X 203	137	E-4836P	45 X 33
E-603716SSDC	E-603716316DC	E-603716DC	60 X 37 X 16	1524 X 949 X 406	200	E-6036P	57 X 33

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Wall Mount Type 12 with Door Handle

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-202108SSDCPL	E-202108316DCPL	E-202108DL	20 X 21 X 8	508 X 543 X 203	42	E-2020P	17 X 17
E-202110SSDCPL	E-202110316DCPL	E-202110DL	20 X 21 X 10	508 X 543 X 254	46	E-2020P	17 X 17
E-242510SSDCPL	E-242510316DCPL	E-242510DL	24 X 24 X 10	610 X 619 X 254	60	E-2424P	21 X 21
E-302512SSDCPL	E-302512316DCPL	E-302512DL	30 X 24 X 12	762 X 619 X 305	76	E-3024P	27 X 17
E-362508SSDCPL	E-362508316DCPL	E-362508DL	36 X 24 X 8	914 X 619 X 203	76	E-3624P	27 X 21
E-423712SSDCPL	E-423712316DCPL	E-423712DL	42 X 37 X 12	1067 X 949 X 305	138	E-4236P	33 X 21
E-483708SSDCPL	E-483708316DCPL	E-483708DL	48 X 37 X 8	1219 X 949 X 203	137	E-4836P	39 X 27
E-603712SSDCPL	E-603712316DCPL	E-603712DL	60 X 37 X 12	1524 X 949 X 305	183	E-6036P	39 X 33
E-603716SSDCPL	E-603716316DCPL	E-603716DL	60 X 37 X 16	1524 X 949 X 406	200	E-6036P	45 X 33
E-603716SSDC	E-603716316DC	E-603716DC	60 X 37 X 16	1524 X 949 X 406	200	E-6036P	57 X 33

Two Door Floor Mount Type 4/4X

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
F-606112RFN4XSS	F-606112RFN4X6SS	F-606112RFN4	60 X 61 X 12	1527 X 1568 X 308	530	E-6060P	56 X 56
F-606118RFN4XSS	F-606118RFN4X6SS	F-606118RFN4	60 X 61 X 18	1527 X 1568 X 460	530	E-6060P	56 X 56
F-726112RFN4XSS	F-726112RFN4X6SS	F-726112RFN4	72 X 61 X 12	1832 X 1568 X 308	594	E-7260P	68 X 56
F-726118RFN4XSS	F-726118RFN4X6SS	F-726118RFN4	72 X 61 X 18	1832 X 1568 X 460	665	E-7260P	68 X 56
F-727312RFN4XSS	F-727312RFN4X6SS	F-727312RFN4	72 X 73 X 12	1832 X 1873 X 308	682	E-7272P	68 X 68
F-727318RFN4XSS	F-727318RFN4X6SS	F-727318RFN4	72 X 73 X 18	1832 X 1873 X 460	761	E-7272P	68 X 68
F-727324RFN4XSS	F-727324RFN4X6SS	F-727324RFN4	72 X 73 X 24	1832 X 1873 X 610	840	E-7272P	68 X 68

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

Two Door Floor Mount Type 12 Right Flange Disconnect

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-604912RFSS	E-604912316SSRF	E-604912RF	60 X 49 X 12	1524 X 1264 X 308	465	E-6048P	56 X 44
E-604918RFSS	E-604918316SSRF	E-604918RF	60 X 49 X 18	1524 X 1264 X 460	535	E-6048P	56 X 44
E-604924RFSS	E-604924316SSRF	E-604924RF	60 X 49 X 24	1524 X 1264 X 613	575	E-6048P	56 X 44
E-606112RFSS	E-606112316SSRF	E-606112RF	60 X 61 X 12	1524 X 1568 X 308	581	E-6060P	56 X 56
E-606118RFSS	E-606118316SSRF	E-606118RF	60 X 61 X 18	1524 X 1568 X 460	611	E-6060P	56X 56
E-606124RFSS	E-606124316SSRF	E-606124RF	60 X 61 X 24	1524 X 1568 X 613	611	E-6060P	56 X 56
E-726112RFSS	E-726112316SSRF	E-726112RF	72 X 61 X 12	1829 X 1568 X 308	665	E-7260P	68 X 56
E-726118RFSS	E-726118316SSRF	E-726118RF	72 X 61 X 18	1829 X 1568 X 460	748	E-7260P	68 X 56
E-727312RFSS	E-727312316SSRF	E-727312RF	72 X 73 X 12	1829 X 1854 X 308	691	E-7272P	68 X 68
E-727318RFSS	E-727318316SSRF	E-727318RF	72 X 73 X 18	1829 X 1854 X 460	776	E-7272P	68 X 68
E-727324RFSS	E-727324316SSRF	E-727324RF	72 X 73 X 24	1829 X 1854 X 613	877	E-7272P	68X 68

Two Door Floor Mount Type 12 Center Post Disconnect

Stainless Steel 304 Part #	Stainless Steel 316 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Part #	Panel Size A x B (in)
E-604812SSCPDC	E-604812316SSCPDC	E-604812CPDC	60 X 48 X 12	1527 X 1222 X 308	458	E-6048P	56 X 44
E-606012SSCPDC	E-606012316SSCPDC	E-606012CPDC	60 X 60 X 12	1527 X 1527 X 308	495	E-6048P	56 X 56
E-726012SSCPDC	E-726012316SSCPDC	E-726012CPDC	72 X 60 X 12	1832 X 1527 X 308	593	E-6048P	68 X 56
E-727212SSCPDC	E-727212316SSCPDC	E-727212CPDC	72 X 72 X 12	1832 X 1832 X 308	750	E-6060P	68 X 68
E-727218SSCPDC	E-727218316SSCPDC	E-727218CPDC	72 X 72 X 18	1832 X 1832 X 460	815	E-6060P	68 X 68

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

Popular Standard Enclosures

Additional & Custom sizing available
contact factory for details

One Door Freestanding Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	Dimensions (in)	Dimensions (mm)	Shipping (lbs)	Panel Size A x B (in)
	E-72XM2818	72.12 x 28.25 x 18.12	1832 x 718 x 460	368	60 x 22
E-72XM3418SS	E-72XM3418	72.12 x 34.25 x 18.12	1832 x 870 x 460	430	60 x 28
E-72XM4018SS	E-72XM4018	72.12 x 40.25 x 18.12	1832 x 1022 x 460	559	60 x 34
E-84XM4018SS	E-84XM4018	84.12 x 40.25 x 18.12	2137 x 1022 x 460	775	72 x 34
E-90XM4024SS	E-90XM4024	90.12 x 40.25 x 24.12	2289 x 1022 x 612	910	78 x 34

Multi Door Freestanding Type 12

Stainless Steel 304 Part #	Carbon Steel Part #	A x B x C (in)	Dimensions (mm)	Shipping (lbs)	# of Doors	# of panels	1 st Panel Size (in)	2 nd Panel Size (in)
E-72XM5418SS	E-72XM5418	72.12 x 54.50 x 18.12	1832 x 1384 x 460	750	2	1	60 x 48	N/A
E-72XM6618SS	E-72XM6618	72.12 x 66.50 x 18.12	1832 x 1689 x 460	900	2	1	60 x 60	N/A
E-72XM7818SS	E-72XM7818	72.12 x 78.50 x 18.12	1832 x 1994 x 460	1050	2	1	60 x 72	N/A
E-84XM7818SS	E-84XM7818	84.12 x 78.50 x 18.12	2137 x 1994 x 460	1200	2	1	72 x 72	N/A
E-90XM7824SS	E-90XM7824	90.12 x 78.50 x 18.12	2289 x 1994 x 460	1392	2	1	78 x 72	N/A
E-72XM3EQ18SS	E-72XM3EQ18	72.12 x 100.75 x 18.12	1832 x 2559 x 460	1330	3	2	60 x 60	60 x 28
E-72XM3EW18SS	E-72XM3EW18	72.12 x 118.75 x 18.12	1832 x 3017 x 460	1540	3	2	60 x 72	60 x 34
E-84XM3EW18SS	E-84XM3EW18	84.12 x 118.75 x 18.12	2137 x 3017 x 460	1750	3	2	72 x 72	72 x 34
E-90XM3EW24SS	E-90XM3EW24	90.12 x 118.75 x 18.12	2289 x 3017 x 460	2018	3	2	78 x 72	78 x 34
E-84XM4EW18SS	E-84XM4EW18	84.12 x 158 x 18.12	2137 x 4013 x 460	2070	4	2	72 x 72	72 x 72
E-84XM5EW18SS	E-84XM5EW18	84.12 x 197.75 x 18.12	2137 x 5023 x 460	2730	5	3	72 x 72 (2)	72 x 34

*Panel part numbers are for reference only and do not imply that panel is included with enclosure. See enclosure product pages for details.

ENGRAVING & MACHINING

At EMF, custom machining is our specialty! We run multiple punch presses and laser cutting machines to offer a wide variety of capabilities. Machining services include custom cutouts, drilled hole patterns, knockouts, disconnect switch cutouts, punched louvers and more.

EMF also offers custom engraving on all stainless steel and painted steel enclosures. Laser engraving offers a precise, durable way to label controls or include a company logo. Contact factory for details and requirements.



DISCONNECT CUTOUTS

EMF has experience working with all major disconnect switch manufacturers and can provide custom cutouts to perfectly fit your chosen disconnect switch. We also offer blank disconnect cutouts along with cutout adapter plates for a more versatile enclosure solution.



Disconnect Adapter Plate



contact sales@emfcompany.com to receive a custom enclosure quote.

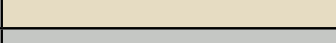
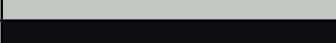
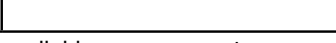
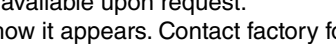
EMF offers multiple finishing options to provide a clean look and an additional layer of protection. Choose from a wide range of RAL colors for custom powder coating – available for any enclosure or custom panel.

Other finishing services include:

- Engraving
- Etching
- Plating
- Anodizing
- EMI-RFI shielding
- Passivation (stainless steel only)
- Other ANSI related requirements.



Powder Coat Color Options

COLOR DESCRIPTION	COLOR SWATCH	APPROXIMATE RAL EQUIVALENT
RED		RAL 3003
GRAY WHITE		RAL 9002
LIGHT IVORY		RAL 1015
LIGHT GRAY		RAL 7035
BLACK		RAL 9005
ANSI 61 GRAY		RAL 7042
YELLOW		RAL 1023
SIGNAL WHITE		RAL 9003
EMF WHITE		-

*Additional and custom options available upon request.

**Color may differ slightly from how it appears. Contact factory for powder coat spec sheet.

EMF Powder Coat Paint Characteristics

Powder Type	Part Names	60° Gloss	Cross Cut Adhesion	Mandrel Flexibility	Pencil Hardness	Impact Resistance
Standard	N/A	ASTM D-523	ASTM D3359	ASTM D522	ASTM D3363	ASTM 2794
ANSI 61 GRAY	POWDER 122	60-70	5B	1/8(in)	H-2H	100(in) / LBS
EMF WHITE	POWDER 170	85-95	5B	1/8(in)	H-2H	100(in) / LBS
RAL COLORS	TBA	55-65	5B	1/8(in)	H-2H	80(in) / LBS

contact sales@emfcompany.com to receive a custom enclosure quote.

PANELS

Complete your enclosure with our high strength, steel and stainless steel back panels or hinged swing panels. Panel provisions are built into every enclosure for easy installation and panels can be customized with machining or powder coating for your application.

EMF can provide:

- Back Panels
- Swing Panels
- Inner Doors
- Half Panels
- Side Panels



WINDOWS

Easily view controls while keeping them protected by adding a window to your enclosure! EMF can create hinged or fixed frame NEMA 4X rated windows up to 36" x 23". All windows are created using 0.25 inch thick Lexan and oil-resistant gasketing. Contact factory for details.



contact sales@emfcompany.com to receive a custom enclosure quote.

INSULATION & SHIELDS

Protect your components from extreme temperatures with a variety of add-ons including Insulation, Sun Shields, and ventilation accessories. These measures are an effective way to cut internal temperatures by 25-46% on single and multiple surface coverages. EMF offers multiple insulation depths to meet your enclosure size and needs.



OTHER ACCESSORIES

EMF takes great care in the hardware selections that make up your enclosure. We offer a wide variety of add-ons including latches, supports, temperature control options and more. Contact the factory for more information on any of our accessories.

EMF can provide:

- Back Panels
- Swing Panels
- Print Pockets
- Framed & Hinged Windows
- Gland Plates
- Light Struts
- Wire Management bars
- Louvers
- Inner Doors
- Casters
- Door Stops & Gas Shocks
- Drip Shields
- Sun Shields
- Floor Stands / Pedestals

contact sales@emfcompany.com to receive a custom enclosure quote.

TERMS & CONDITIONS OF SALE

The Terms and Conditions of contained herein are the exclusive terms and conditions for the sale of products from The EMF Company™, a division of MUM Industries, Inc. ("EMF") to you, its Customer. Customer agrees that the terms and conditions stated herein and, to the extent not stated herein but contained on any EMF invoice, constitute the final, complete, exclusive expression of the agreement between EMF and Customer. In the event that any Customer form, purchase order or any other document submitted by Customer contains terms and conditions in addition to or different from the terms and conditions herein or from any EMF invoice, Customer agrees, by so submitting its purchase order or order form, by receiving an order acknowledgment or by accepting product produced by EMF, that such new or additional terms are rejected and that the language of the EMF terms and conditions control. Any and all new or additional terms contained on any Customer document (whether provided to EMF prior or subsequent to the delivery of these Terms and Conditions) are hereby expressly and completely rejected. Acceptance of Customer's order for product from EMF is expressly limited to these terms and conditions.

1. Orders become effective only when accepted and approved by EMF. EMF's acceptance is expressly made conditional on the Customer's assent to the terms and conditions contained herein and to the terms and conditions of any proposal issued by EMF to the Customer, and EMF agrees to furnish the product covered by the order only upon such terms and conditions. Any of the terms or provisions of the Customer's order which are inconsistent with the terms and provisions contained herein are not agreed to by EMF and shall not be binding on EMF and shall not be considered applicable to the sale or shipment of the products ordered.

2. There shall be a minimum order amount of \$50.00 exclusive of freight.

3. Orders, shipments, and terms of payment are subject to the approval of EMF's credit department. Invoices shall be rendered when the products are shipped. Terms of payment are net 30 days, unless otherwise agreed by EMF. Any sums not paid within the specified net terms are subject to a service charge of 1.5% per month. No discount will be allowed to any Customer having an overdue balance. Any discounts previously granted to any Customer that fails to pay any EMF invoice when due will be immediately forfeited and lost. Any discount forfeited or lost due to untimely payment of any invoice will be billed to Customer, which shall be immediately due and payable. Customer will pay all costs, collection agency commissions, expenses and all reasonable attorney fees incurred in the collection of any past due sums. By

submitting an order or taking receipt of EMF products, Customer consents to the exclusive jurisdiction of the state and federal courts located in the State of Texas. Customer shall be deemed to have accepted the products shipped by EMF within ten (10) days after delivery to Customer. After acceptance, Customer shall not be entitled to reject the products that are not in accordance with these terms and conditions. EMF reserves the right to refrain from performing any work on any of Customer's orders should any of Customer's account(s) or jobs with EMF be or become past due. Payments shall be made to EMF, 106 Regal Row, Dallas, TX 75247, or at such other address listed on the EMF invoice.

4. Products are sold FOB EMF's facility and title shall pass upon delivery to the carrier. EMF is not responsible for any loss or damage incurred in transit and any claim must be made by the Customer. EMF shall assist in the filing of any claim, at Customer's request.

5. Shipment dates are given based on current inventories and production plans. However, EMF shall not be responsible for any partial or total failure to deliver or for any delay incurred caused by accidents, delays in transportation, fires, explosions, floods, earthquakes, or other acts of nature, riots, strikes, or other causes beyond EMF's reasonable control.

6. Orders for non-standard products, such as modified product, are not cancelable and not returnable without EMF's prior consent. Should such consent be given, EMF reserves the right to recover all direct costs incurred as a result of the cancellation.

7. Returns of compliant products may be returned at Customer's request only upon the approval of EMF. Products must be in re-sellable condition and in their original packaging. No cash refunds will be provided for returned products. EMF will issue a credit memorandum for any authorized material return. Said credit memorandum will have no cash value and shall expire one (1) year after issuance. Authorized Returns not accompanied by a new order of greater or equal value shall be subject to a restocking fee of 25 percent of the original sale price.

8. EMF warrants that its products will be free from original defects in materials and workmanship for a period of one (1) year from date of shipment from its facility. This warranty is subject to receipt of written notification of a potential defect, provided by customer to EMF within the warranty period. This warranty applies when the EMF product is operated under the following conditions: 1) Compliance with all installation, maintenance, and operating instructions; 2) Use of the product is within its stated and designated purpose; and 3) The product

TERMS & CONDITIONS OF SALE

has not been further modified from its original design as shipped, abused damaged by freight or other accident, misapplied, mishandled, or otherwise misused or used in a manner not as intended.

EMF will, at its sole discretion, repair or replace any EMF product found to be defective under normal use and service within the stated warranty period, upon return of such parts at the customer's expense (as more fully described in "Return Policy" below). Any and all determination as to whether a product is defective shall be in EMF's sole and exclusive discretion. EMF will not be responsible for any incidental or consequential damages or for any damage caused by products which have been altered or modified. EMF's liability under this warranty is limited solely to replacement or repair of any EMF product confirmed by EMF to be defective.

EMF cannot and does not assume liability for defective product parts or components, or damage caused by defective product parts or components, that are not manufactured by EMF, even if such product parts and components are incorporated, contained or used in conjunction with any EMF product. Any parts or components manufactured by third parties that are incorporated, used or contained in EMF products are or may be separately warranted by the manufacturer of said parts or components. The warranty provided herein is limited in time and remedy to the actual warranty (if any) provided by the manufacturer of such parts or components, and EMF does not separately warrant the same.

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Whether based on any Warranty claim or otherwise,

EMF will not, in ANY event, be liable for any loss of profit, interruption of business or any other special, consequential or incidental damages suffered or sustained by Customer. EMF's total maximum liability to Customer in respect of the manufacture and sale of products is limited to the Warranty stated herein and, if any claim by Customer is based on a theory other than the Warranties, then the damages are limited to the total monies received by EMF from the Customer for the particular products described in Customer's order. The total maximum liability for scheduled orders that are drawn down against each month will be the monthly total of the effected order or the total value of the items effected whichever is the lesser.

9. Any assistance, suggestions, or technical advice given the Customer by EMF or any agent thereof, concerning dimensions, handling, installation, testing, storage, use or placement in service of any product is an accommodation for which EMF shall have no liability unless such liability expressly assumed by EMF in writing and signed by an officer of the company.

10. No employee, agent, or representative of EMF has the authority or power to add, waive, or amend these terms and conditions unless first authorized in writing by an officer of EMF. Any transaction with Customer shall be construed under the laws of the State of Texas. Waiver of EMF of any breach shall not thereafter be deemed a waiver of a subsequent breach of the same of any other provision hereof.