

CUSTOM STAINLESS ENCLOSURES, INC.

**4X**Xtreme® **4X**Protect®

# ENCLOSURE CATALOG

**BUILDING YOUR  
ENCLOSURES  
YOUR WAY!**

 651-500-3650

 [4xxtreme.com](http://4xxtreme.com)

 [sales@4xxtreme.com](mailto:sales@4xxtreme.com)

 203 E 8th St  
Marshfield, WI 54449



**TYPES:**  
4X, 4, 3R, 3, 1



**IEC Protection Ratings:**  
IP69K, IP69, IP66, IP68

# ABOUT

# CUSTOM STAINLESS ENCLOSURES, INC.

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Custom Stainless Enclosures, Inc. manufactures custom stainless steel electrical enclosures for all industries. We are the proud manufacturer of 4Xxtreme® Enclosures. We have dedicated our time, knowledge, and effort to developing a revolutionary product that will change the way you view electrical enclosures forever.

## **OUR STORY**

Over 12 years ago, while installing electrical enclosures on the kill floor of protein processing facilities, we discovered that existing enclosures couldn't withstand the plant's harsh washdown environments. All the major electrical enclosure manufacturers were using the same "Foam In-Place" non-replaceable gasket system, which we found when in harsher environments the gaskets would crack, absorb water, and eventually fall off, in less than 6 months.

At that point, we decided to develop a better enclosure, creating a solution not just for the protein industry but a new standard of enclosures for all industries facing today's harshest environments.

## **OUR MISSION**

To lower our customer's overall cost of ownership for their equipment by providing the best electrical enclosures in the industry through quality, innovation, and relentless improvement.

# OUR CERTIFICATIONS & RATINGS

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 **US LISTED** Types: 4X, 4, 3R, 3, 1

 **IEC Protection Ratings: IP69K, IP69, IP66, IP68**



# THE **4X**Xtreme<sup>®</sup> DIFFERENCE

## ✓ SUPERIOR DESIGN

- Superior protection with **U.S. Patent #9,745,794** Double Seal Technology
- Field replaceable gasket technology for ease of maintenance
- Single hygienic quarter turn or 3-point handle for simplified operation and a more secure enclosure
- Patented double stud mounting technology welded in place to simplify and reduce enclosure installation time
- Hygienic free draining design for optimal drainage, enhancing cleanliness, and preventing contamination

## ✓ LIMITLESS...

- Limitless capabilities in manufacturing your "Hygienic IP69K Enclosures" for today's harshest environments
- Extensive range of enclosure top configurations with limitless ° pitched options
- Versatile design configurations (Flanged, Sequester, Multi-Door, Twin Door enclosures, and more)
- Accessories available (Interlocking door assemblies, windows, Hygienic feet, HMI protection covers)
- Customization options for limitless sizes, door quantities, and cutouts per enclosure
- Flexibility ensures every enclosure is perfectly suited to specific requirements

## ✓ RAPID RESPONSE

- The quoting process is completed in just **1 to 2 days**
- Manufacturing completed in 4 to 5 weeks
- Shop floor equipped with Bystronic's state-of-the-art production software for paperless and efficient operations
- Adherence to stringent quality standards
- Certifications include ISO 9001, UL, CE, ROHS, and REACH, ensuring products meet the highest industry standards

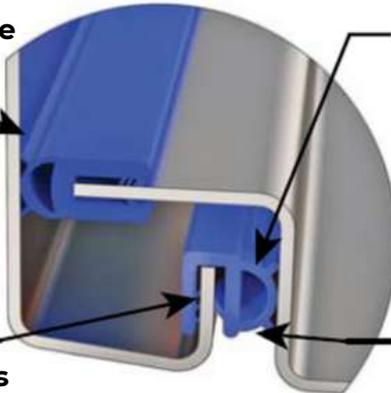
# SUPERIOR DESIGN

## ✓ Double Seal™ Gasketing Technology (U.S. Patent #9,745,794)

Inner Seal is the only seal required for maintaining the Type 4X rating

Blue EPDM Foreign Material Inspectable Gasket System

Return flange makes the door more rigid, requiring less quarter turns

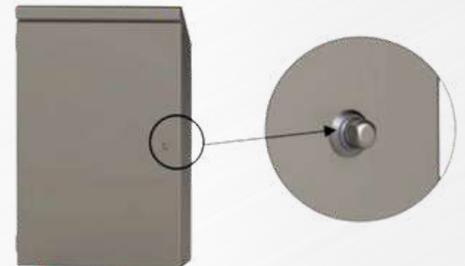


Field replaceable - Blue EPDM gasket system, rated for continuous use at 248°F

Outer Seal increases ability to withstand harsher environments

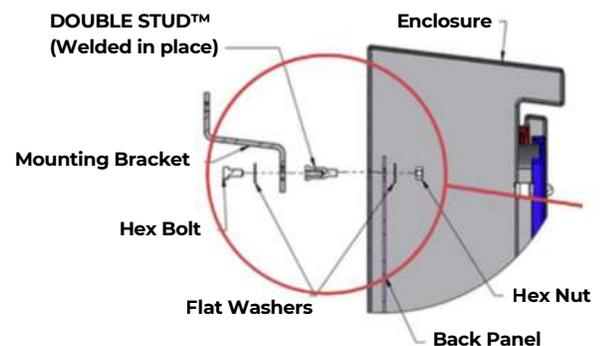
## ✓ Single Three-Point Door Sealing Technology

- **The Problem?** People simply do not close all the closing points (quarter turns) on electrical doors!
- **Our Solution:** We supply a single closing point per door, for all door sizes as large as 80" High x 36" Wide. This simple effective technology keeps our enclosures dry and helps:
  - Reduce premature electrical failures
  - Increase plant production and revenue
  - Increase plant revenue
  - Reduce "Overall Cost of Equipment Ownership"



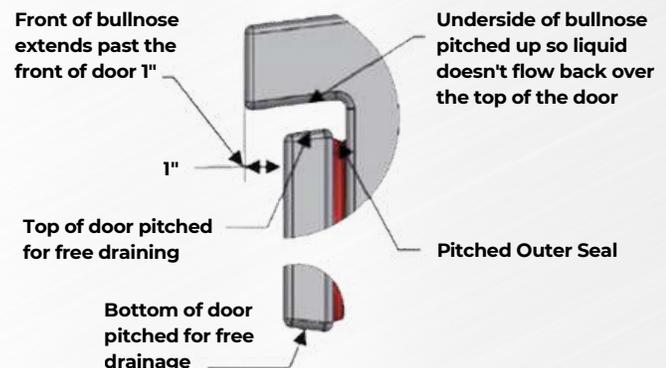
## ✓ Double Stud™ Mounting Technology

- Simple mounting system that reduces Installation time
- Eliminates mounting gaskets that eventually fail
- Eliminates the need to drill holes in the enclosure for mounting
- Reduces "Overall Cost of Equipment Ownership"



## ✓ Ultra Clean Free Draining Design

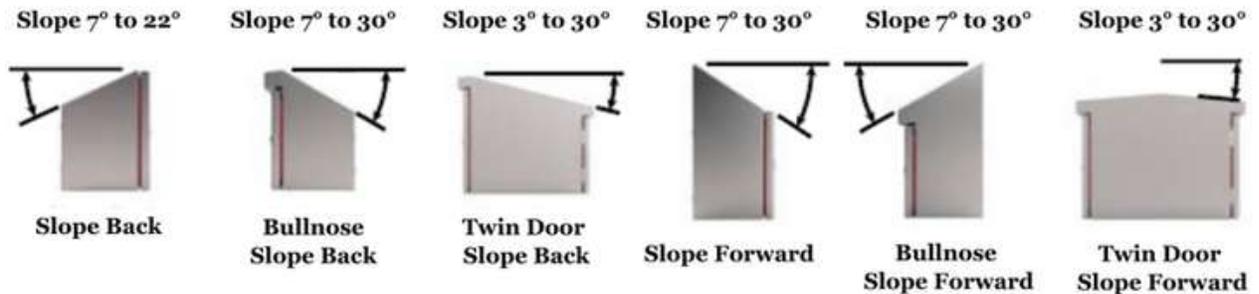
- Hygienically Designed
- Pitched surfaces and outer gasket
- Supplied with weld on bullet style hinges
- All outside welds are continuously welded and ground smooth



# LIMITLESS CAPABILITIES

**Limitless** is the best way to describe our capabilities when it comes to manufacturing your “Hygienic IP69K Enclosures” for today’s harshest environments!

## ✓ Hygienic Top Configurations



## ✓ Customizable Enclosure Design Configurations



## ✓ Limitless Features

- Mechanically interlocked door system
- Hygienic Sequester Enclosure - External disconnect
- Convenience Enclosure
- Hygienic Leg Assemblies – 316 SS material
- Trapped Key Interlock Exchanged Unit enclosure
- Heavy-Duty Lifting Eyes – 316 SS material
- Hygienic Windows: Polycarbonate, Acrylic, or Thermal – Type 4X, IP66, IP68, and IP69K rated
- Center divider available to separate low voltage from high voltage
- Grounding provisions are provided on all doors and enclosures
- Drilled and tapped back panels
- Back panels are available in 12 Gauge G90 Galvanized, Aluminum, Stainless Steel, and Powder Coated
- Hygienic Operator interface swivel arm assemblies – Type: 4X, IP66, IP68, and IP69K
- Floor mount configuration
- HMI 4Xxtreme® Enclosure Covers
- Double Stud™ hygienic mounting brackets: Bolt-on 1, 2, 4 & 10” off wall
- Double Stud™ hygienic mounting extensions: 1, 2, and 3”

# OUR MANUFACTURING TECHNOLOGY

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## **SolidWorks 3D Modeling**

SolidWorks enables us to create precise, detailed 3D models and simulations, enhancing our ability to innovate and optimize product designs.



## **BySoft Suite ERP + Microsoft Business Central**



Microsoft Dynamics 365  
Business Central

Optimizes our production processes, enhances precision, and boosts efficiency through advanced planning and scheduling tools. With Bysoft Suite, we're able to maintain the highest standards of quality and productivity, driving innovation and delivering superior products to our customers.

## **Bystronic Laser**

Bystronic's laser technology enables us to achieve exceptional precision and clean cuts. These machines provide rapid cutting speeds and versatile capabilities, allowing us to effortlessly handle complex designs and varying material thicknesses.

## **Bystronic CNC Press Brake**

These advanced machines ensure accurate, consistent bending results and handles complex tasks. By using Bystronic's Press Brakes, we streamline production and uphold the highest quality standards.





# PART # SYSTEM: FLANGED SINGLE DOOR ENCLOSURES

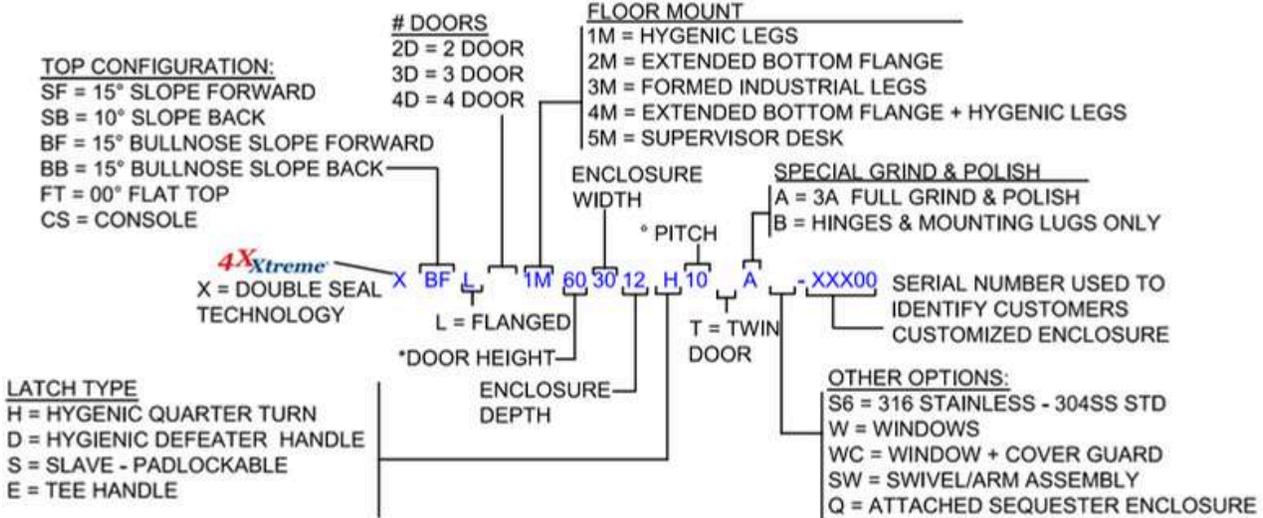


IP69K, IP69, IP66

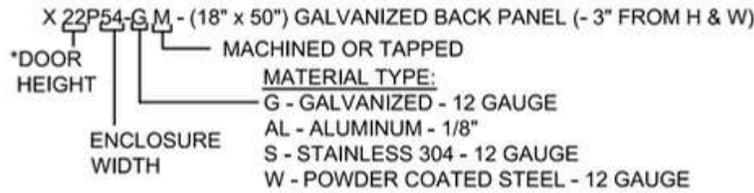
Type: 4X, 4, 3R, 3, 1

# 4Xxtreme®

CUSTOM STAINLESS ENCLOSURES, INC.

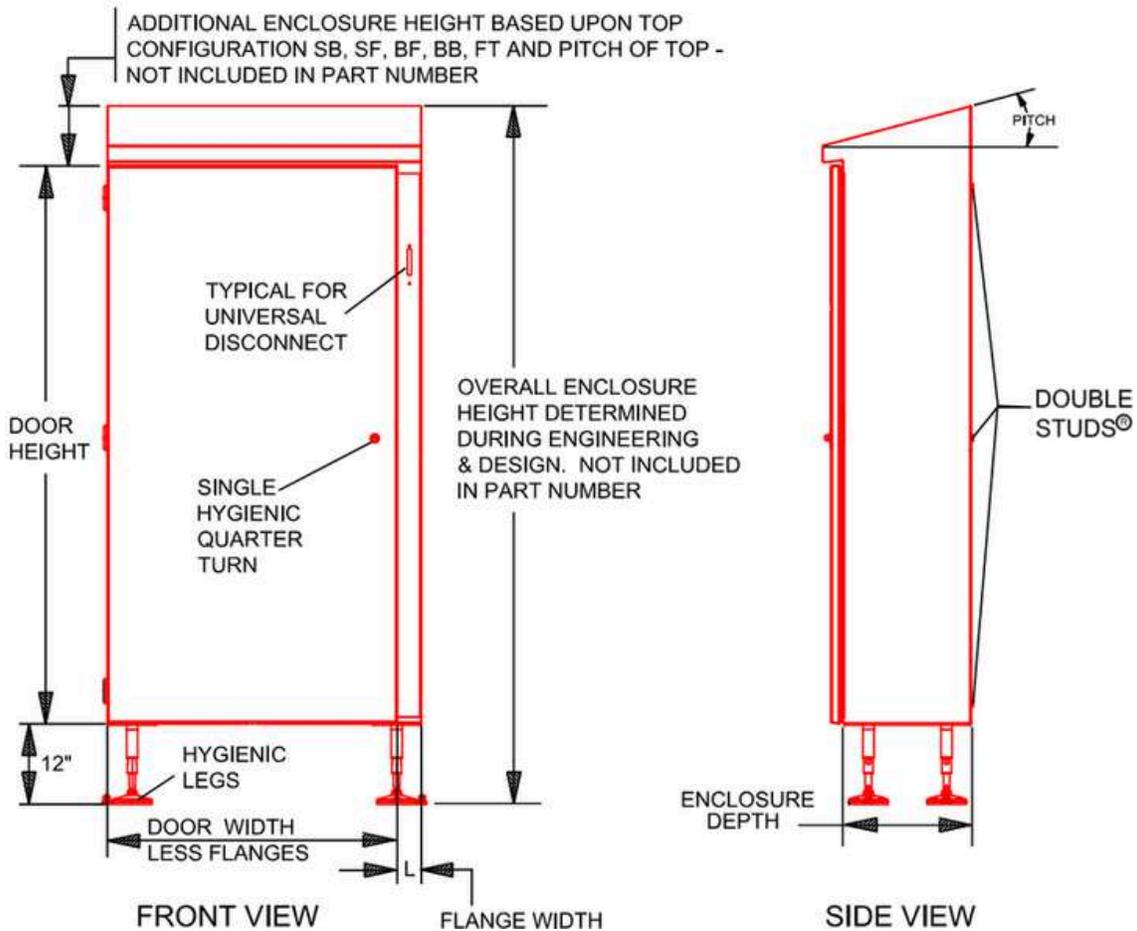


## SINGLE DOOR - BACK PANEL PART # SYSTEM



NOTE: ALL DIMENSIONS ARE IN INCHES.

NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM:

SEQUESTER FLANGED SINGLE DOOR ENCLOSURES

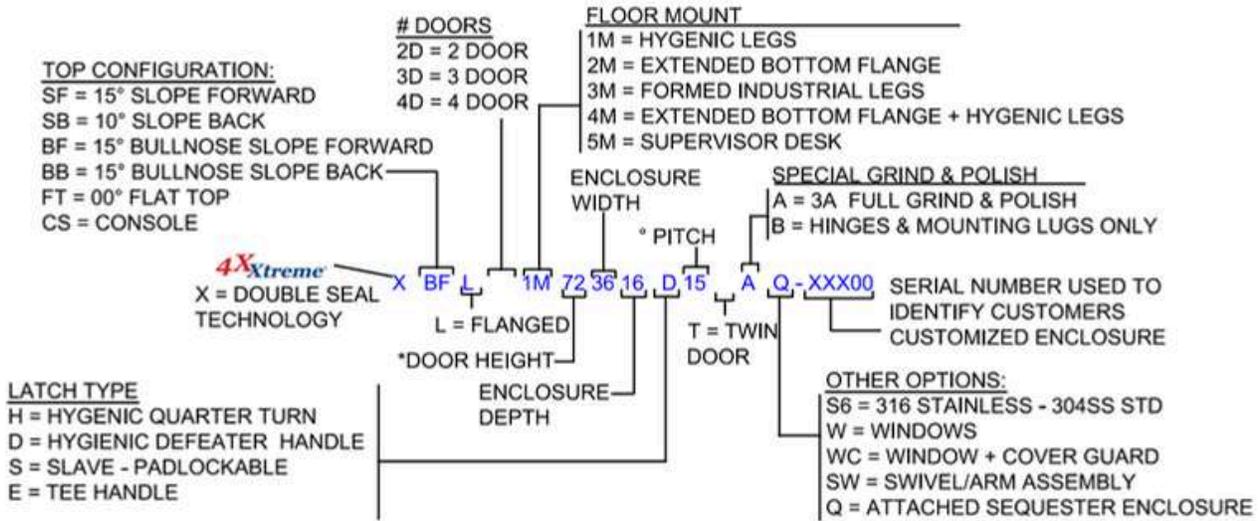


IP69K, IP69, IP66

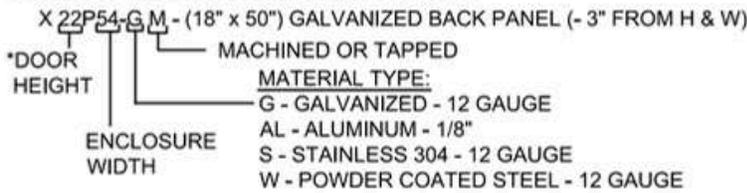
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# 4Xxtreme®

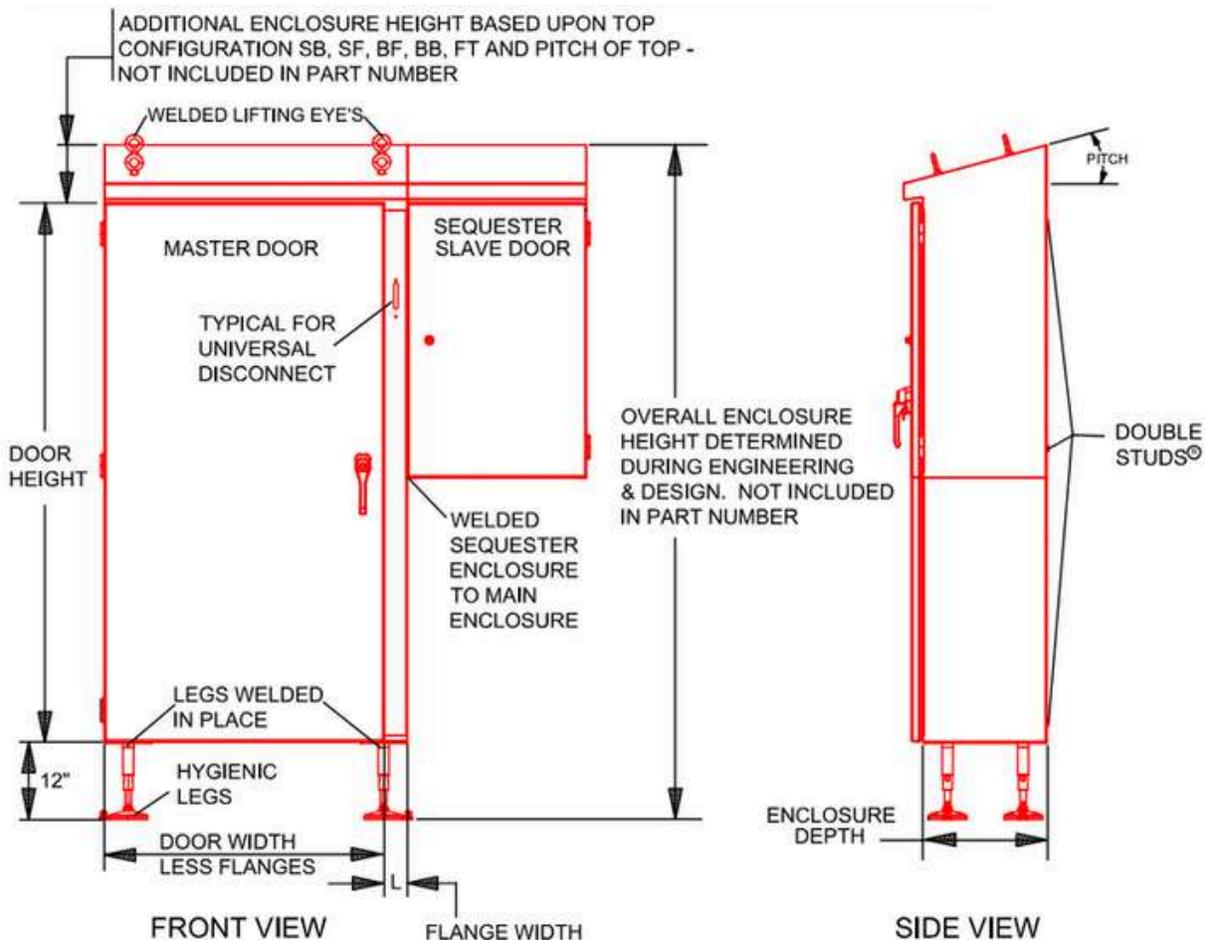
CUSTOM STAINLESS ENCLOSURES, INC.



## SINGLE DOOR - BACK PANEL PART # SYSTEM



NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM: MULTI DOOR ENCLOSURES

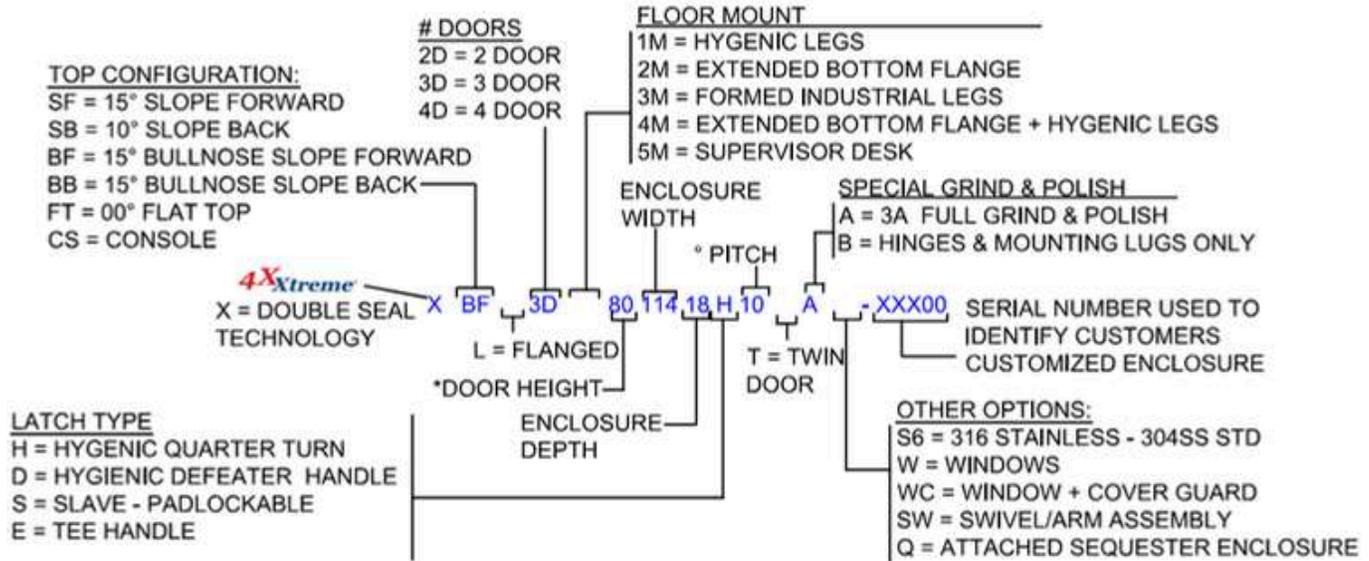


IP69K, IP69, IP66

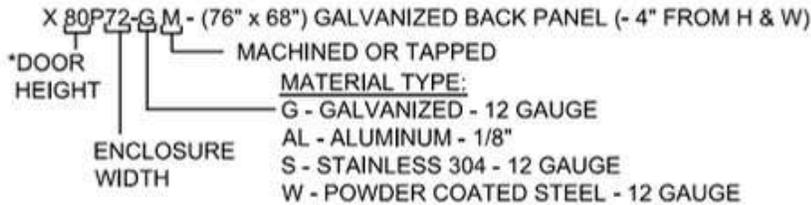
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# 4Xxtreme®

CUSTOM STAINLESS ENCLOSURES, INC.

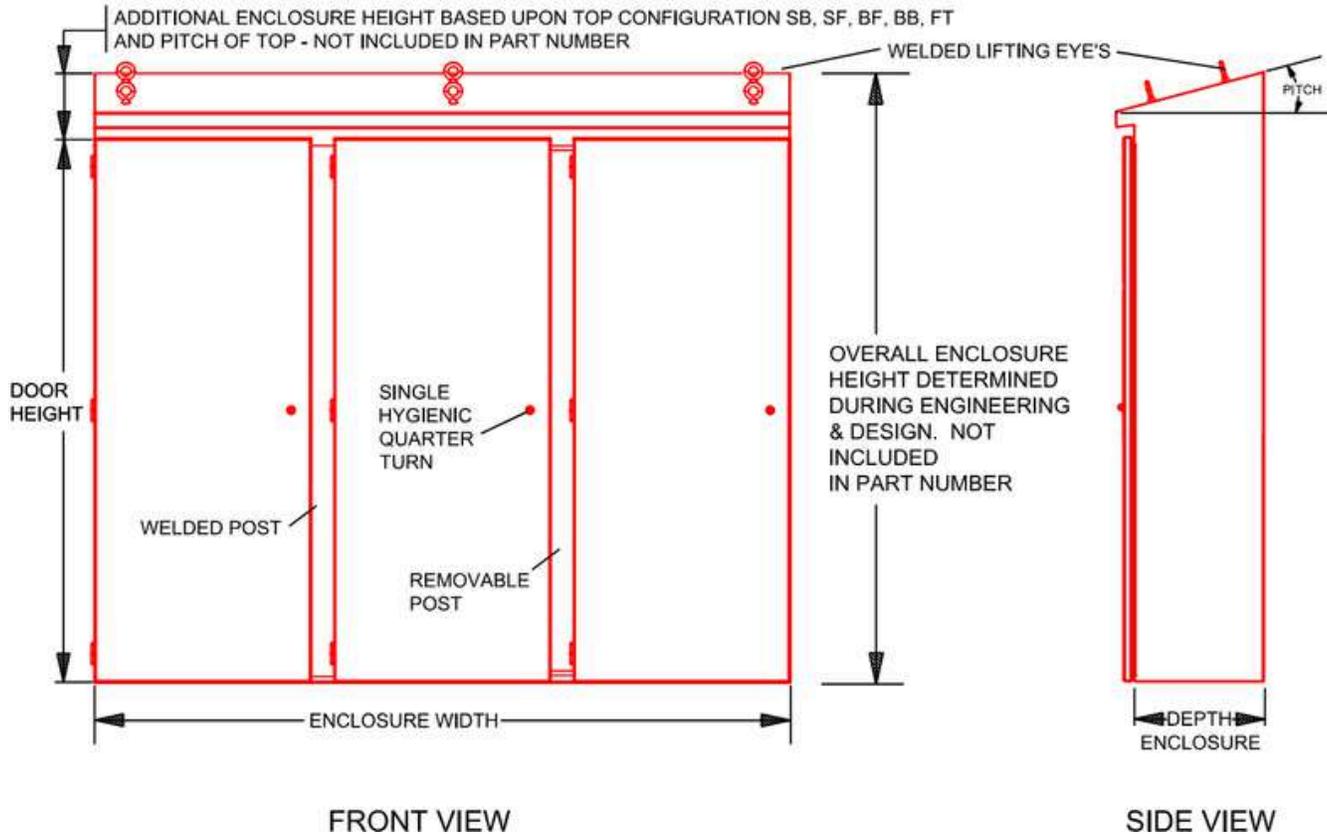


## MULTI DOOR - BACK PANEL PART # SYSTEM



NOTE: ALL DIMENSIONS ARE IN INCHES.

NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM:

## FLANGED MULTI DOOR ENCLOSURES

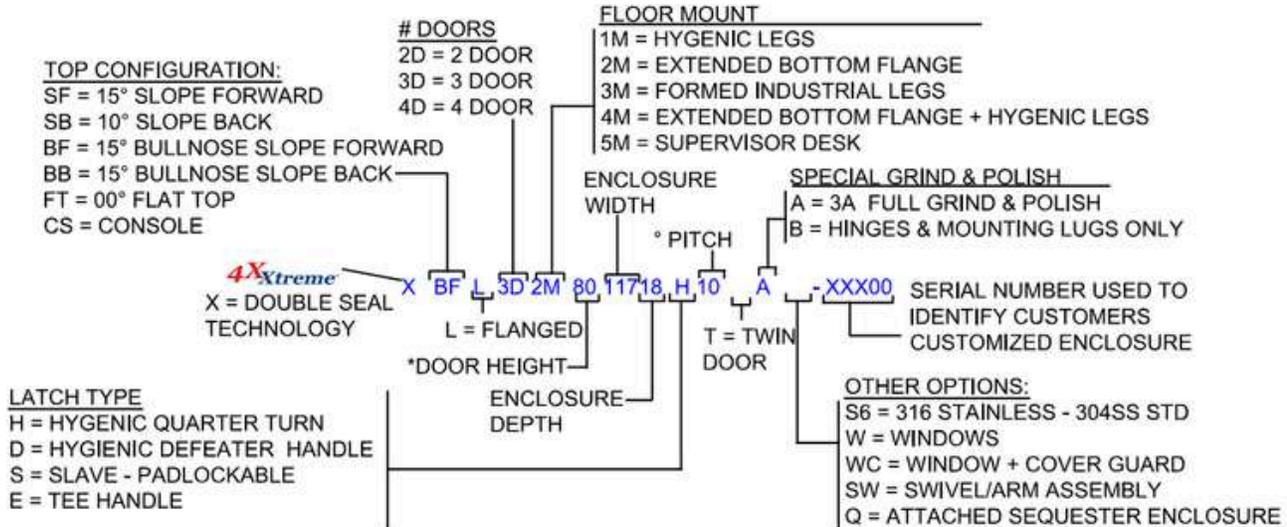


IP69K, IP69, IP66

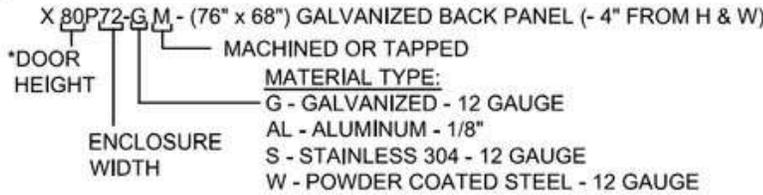
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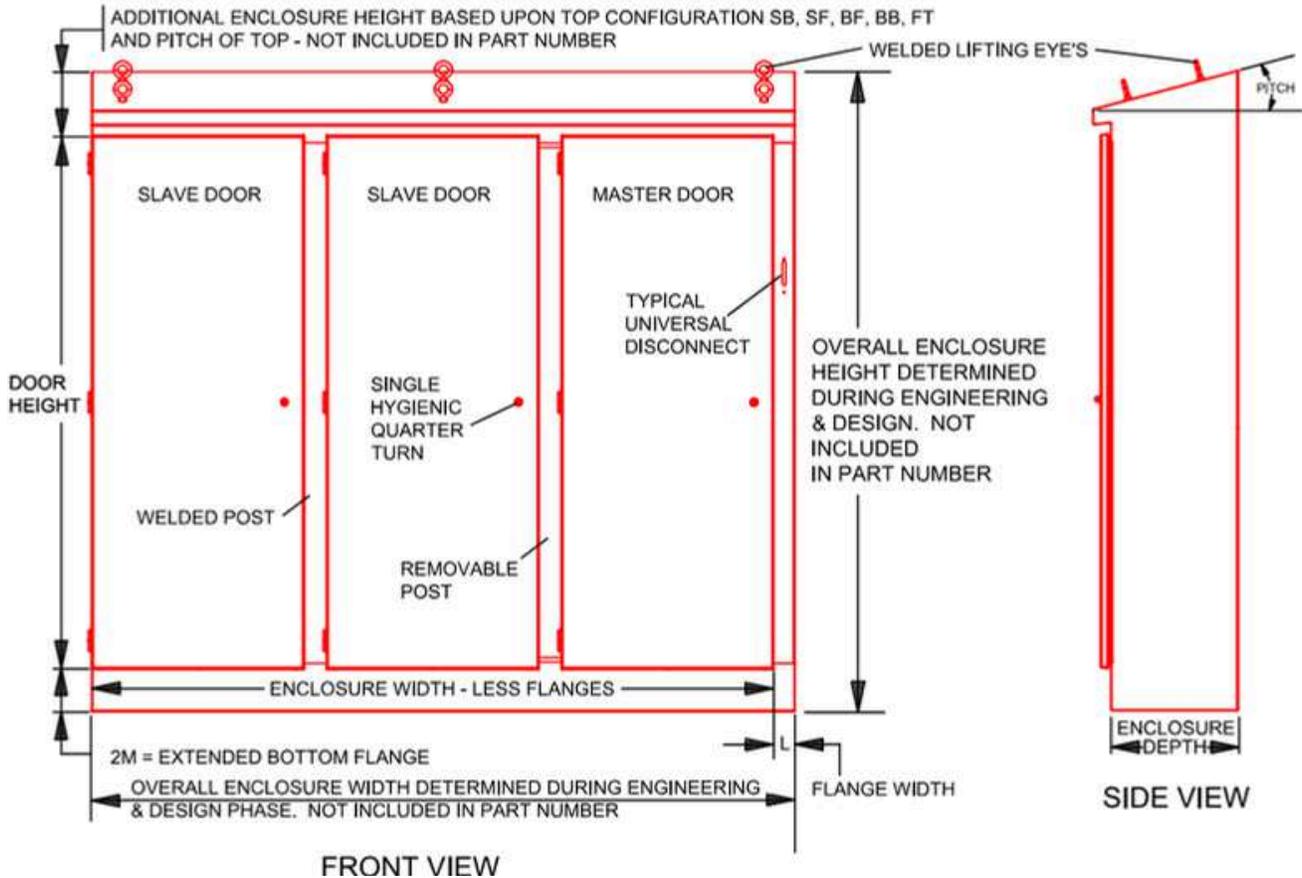
CUSTOM STAINLESS ENCLOSURES, INC.



### MULTI DOOR - BACK PANEL PART # SYSTEM



NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM:

SEQUESTER FLANGED MULTI DOOR ENCLOSURES

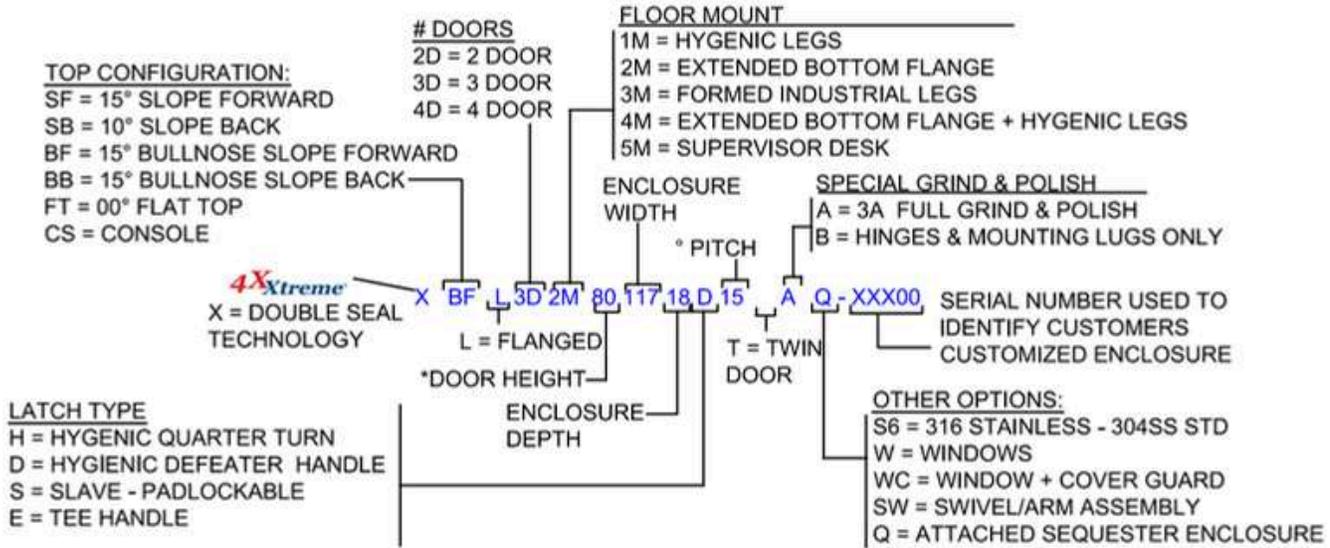


IP69K, IP69, IP66

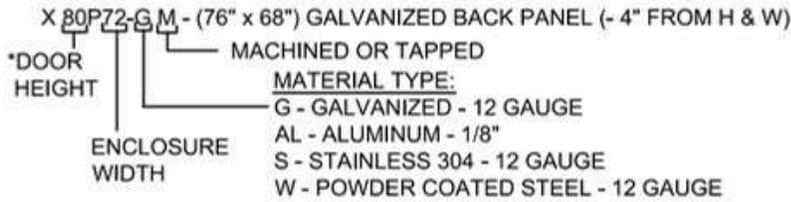
Type: 4X, 4, 3R, 3, 1

# 4Xxtreme®

CUSTOM STAINLESS ENCLOSURES, INC.

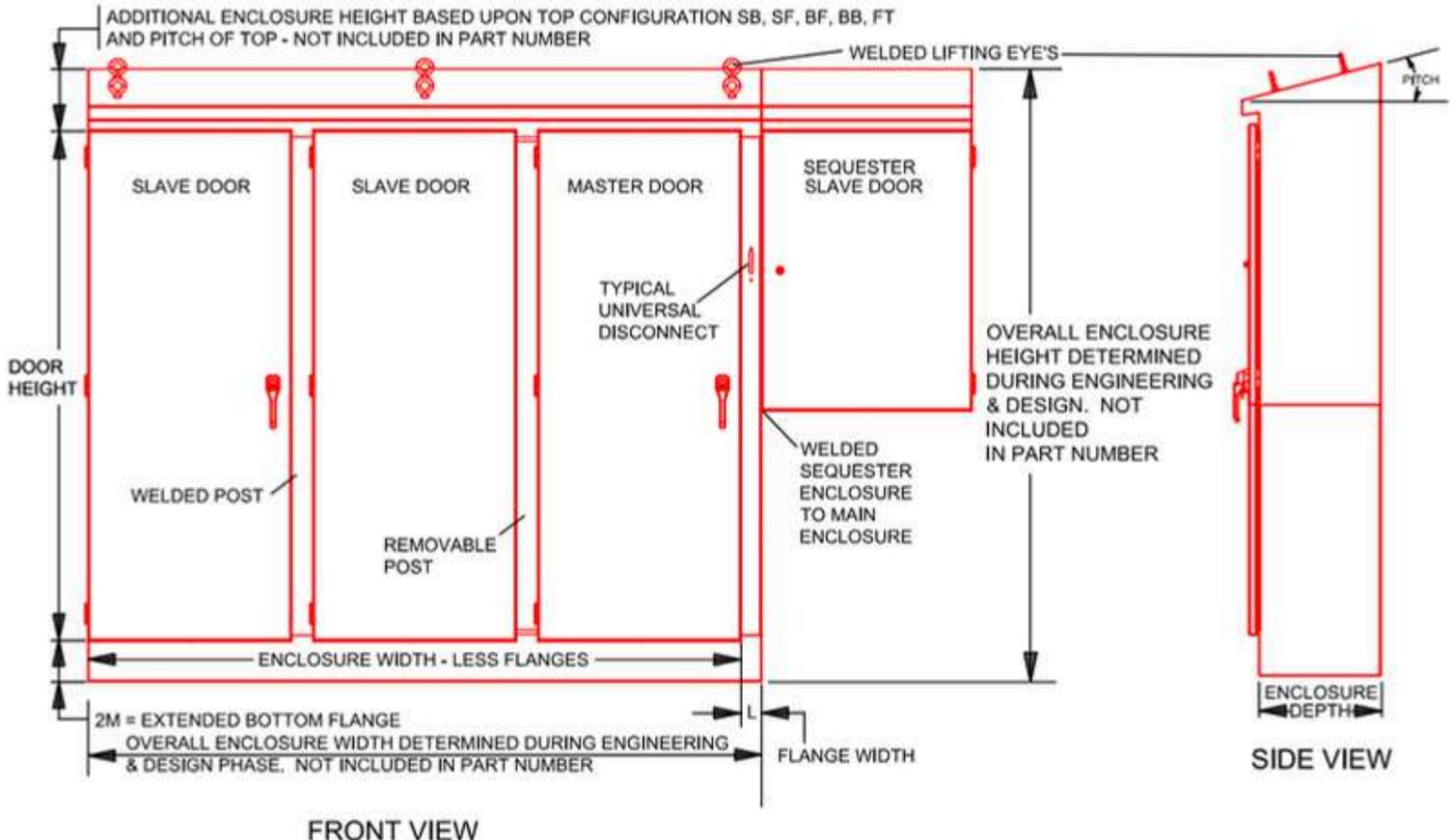


## MULTI DOOR - BACK PANEL PART # SYSTEM



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NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM:

SINGLE TWIN OR MULTI-TWIN DOOR ENCLOSURES

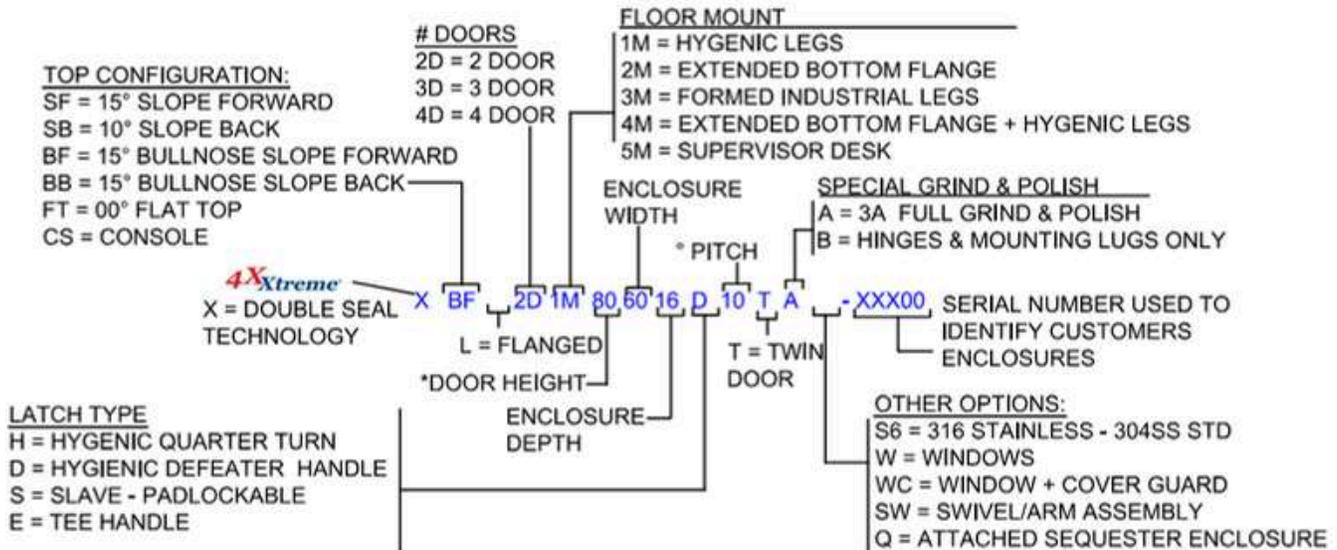


IP69K, IP69, IP66

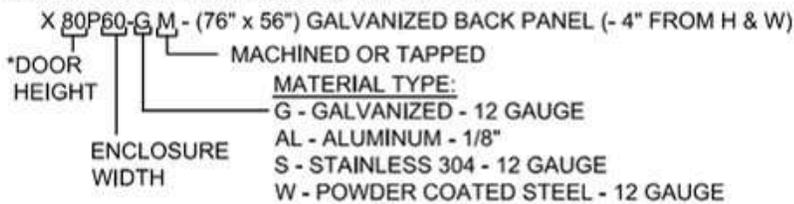
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# 4Xxtreme®

CUSTOM STAINLESS ENCLOSURES, INC.

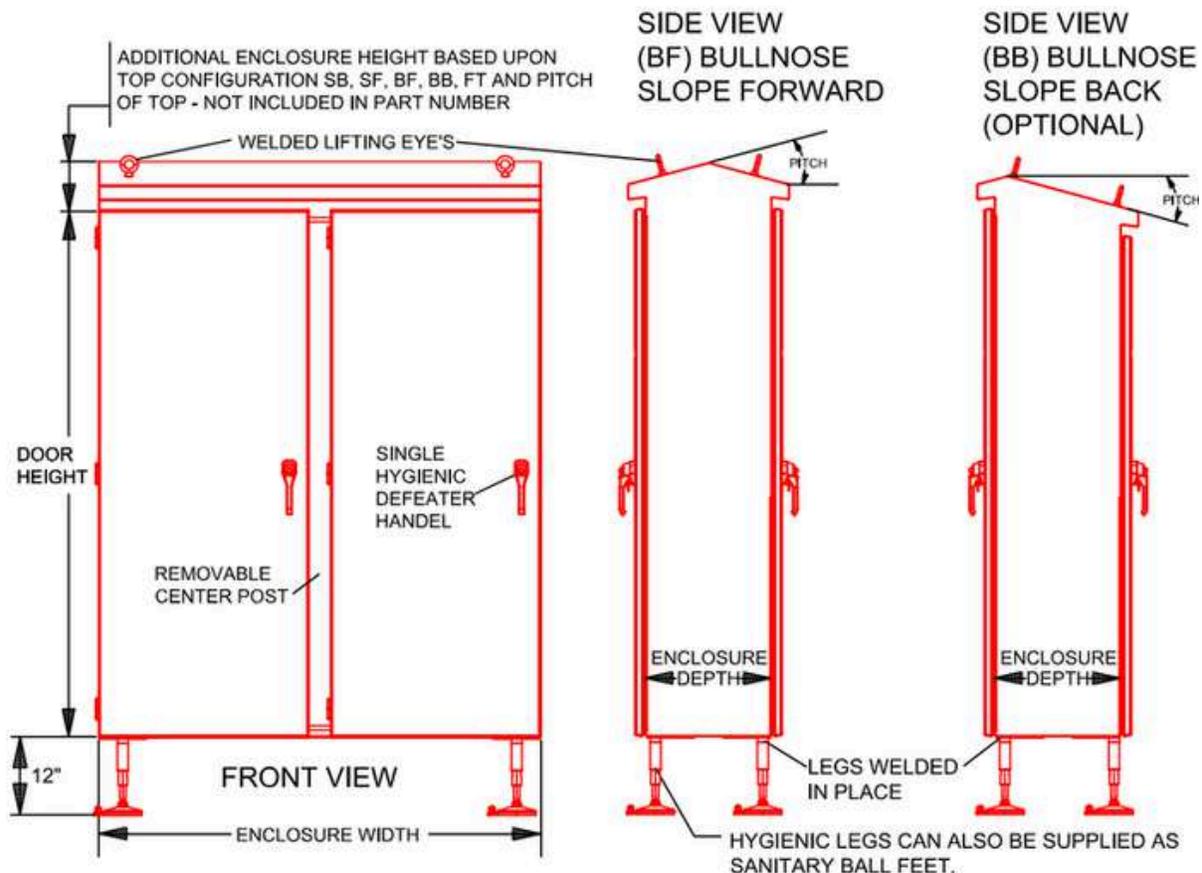


## MULTI DOOR - BACK PANEL PART # SYSTEM



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# PART # SYSTEM: CONSOLE ENCLOSURES

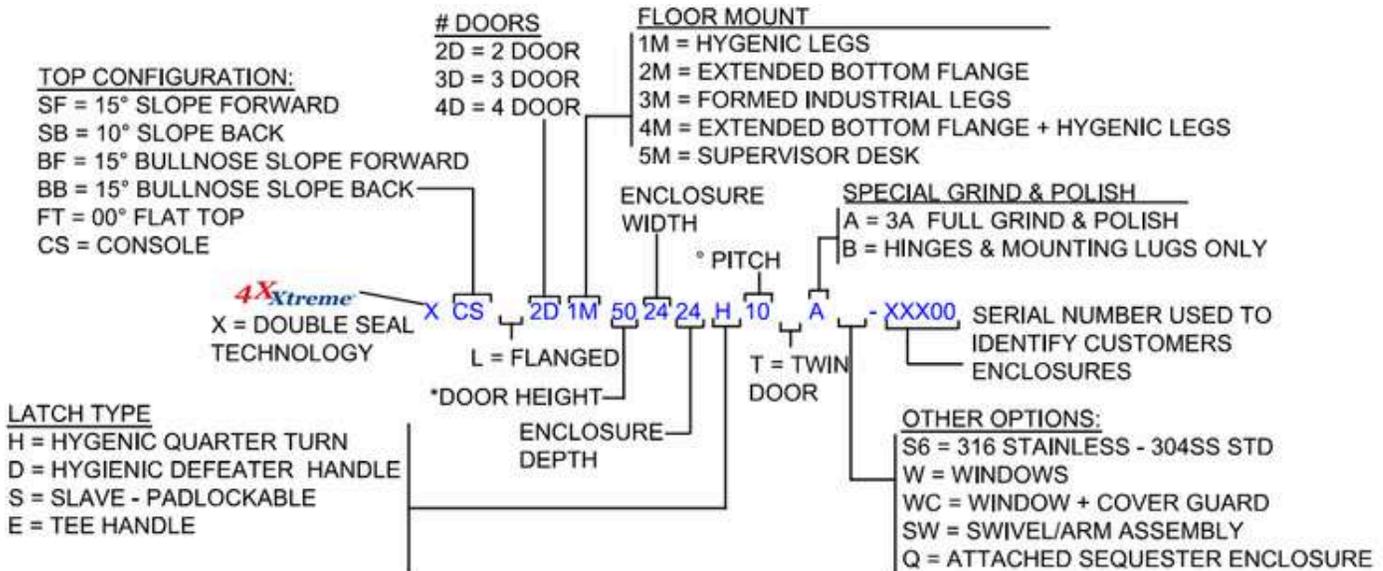


IP69K, IP69, IP66

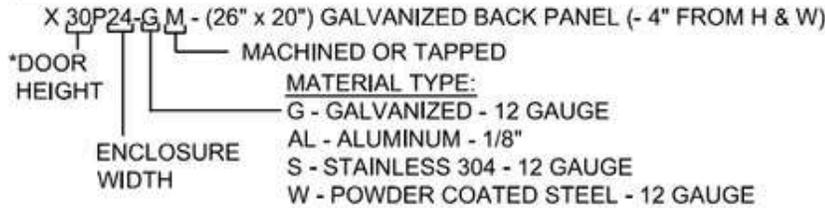
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# 4Xxtreme®

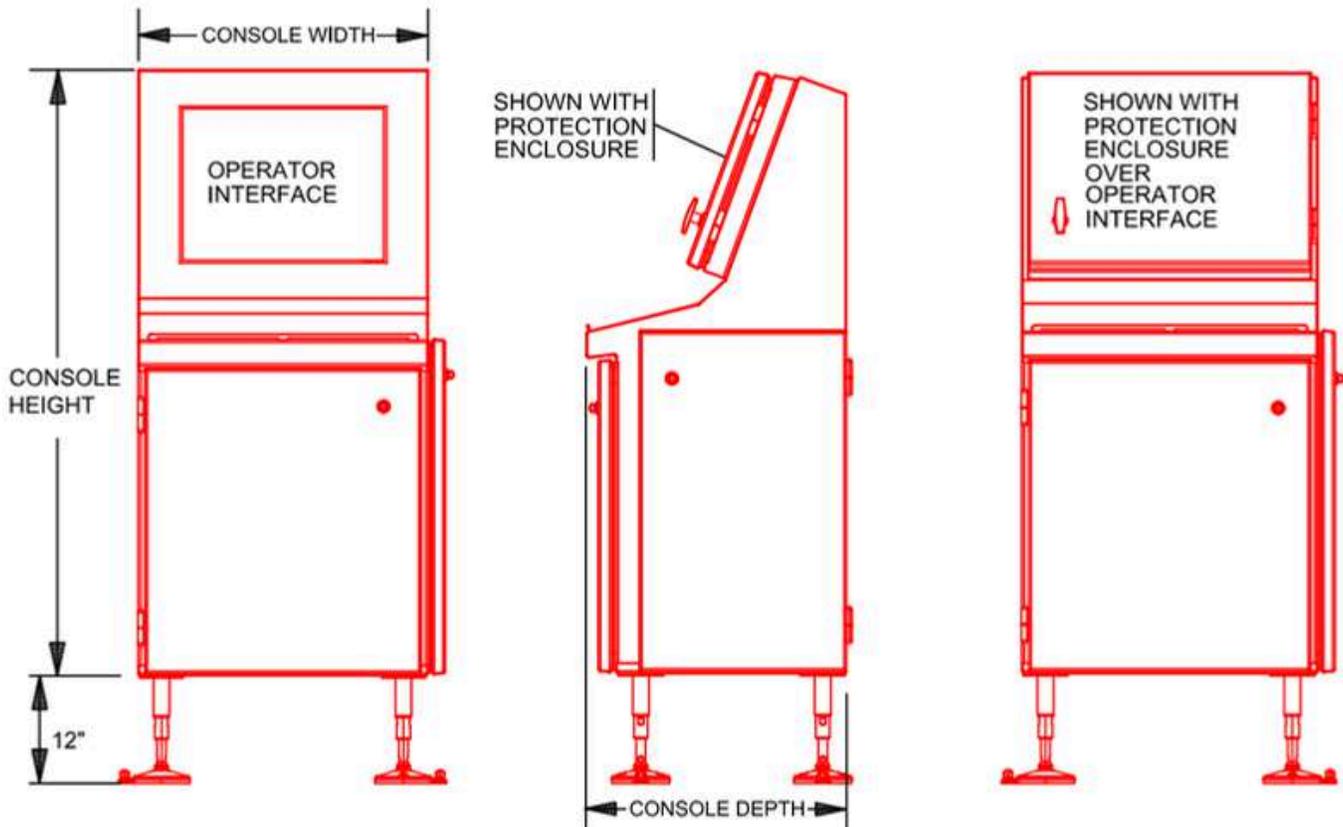
CUSTOM STAINLESS ENCLOSURES, INC.



**MULTI DOOR - BACK PANEL PART # SYSTEM**



NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# PART # SYSTEM: SUPERVISOR DESK ENCLOSURES

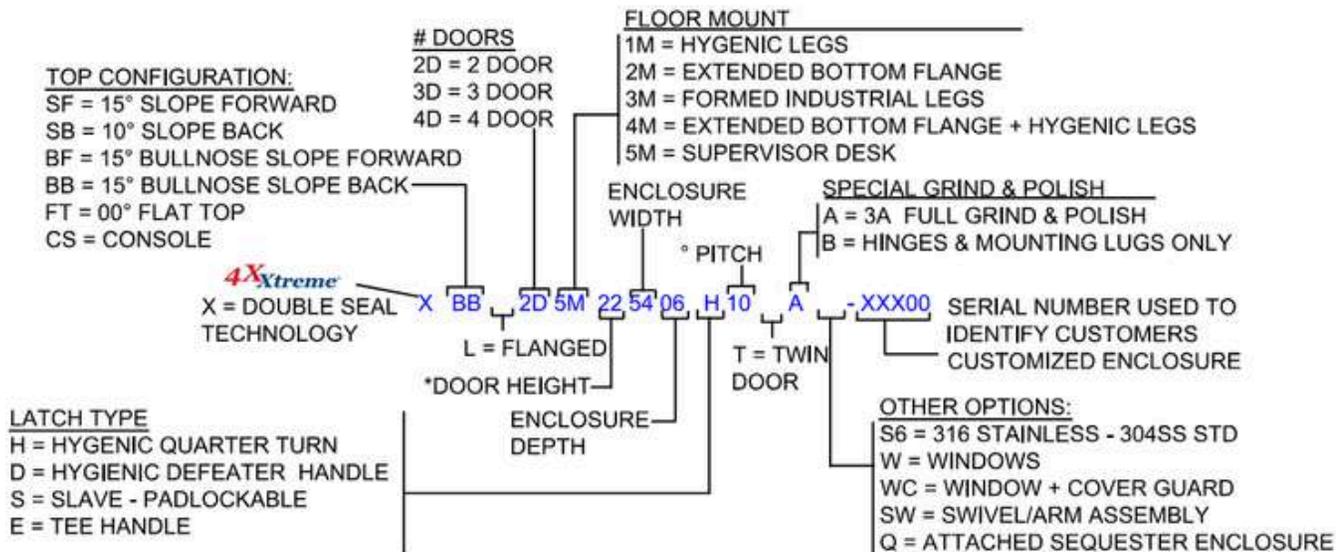


IP69K, IP69, IP66

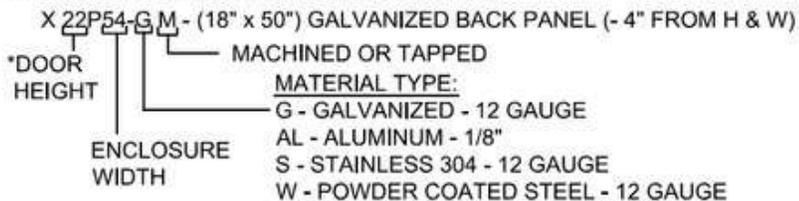
Type: 4X, 4, 3R, 3, 1

# 4Xxtreme®

CUSTOM STAINLESS ENCLOSURES, INC.

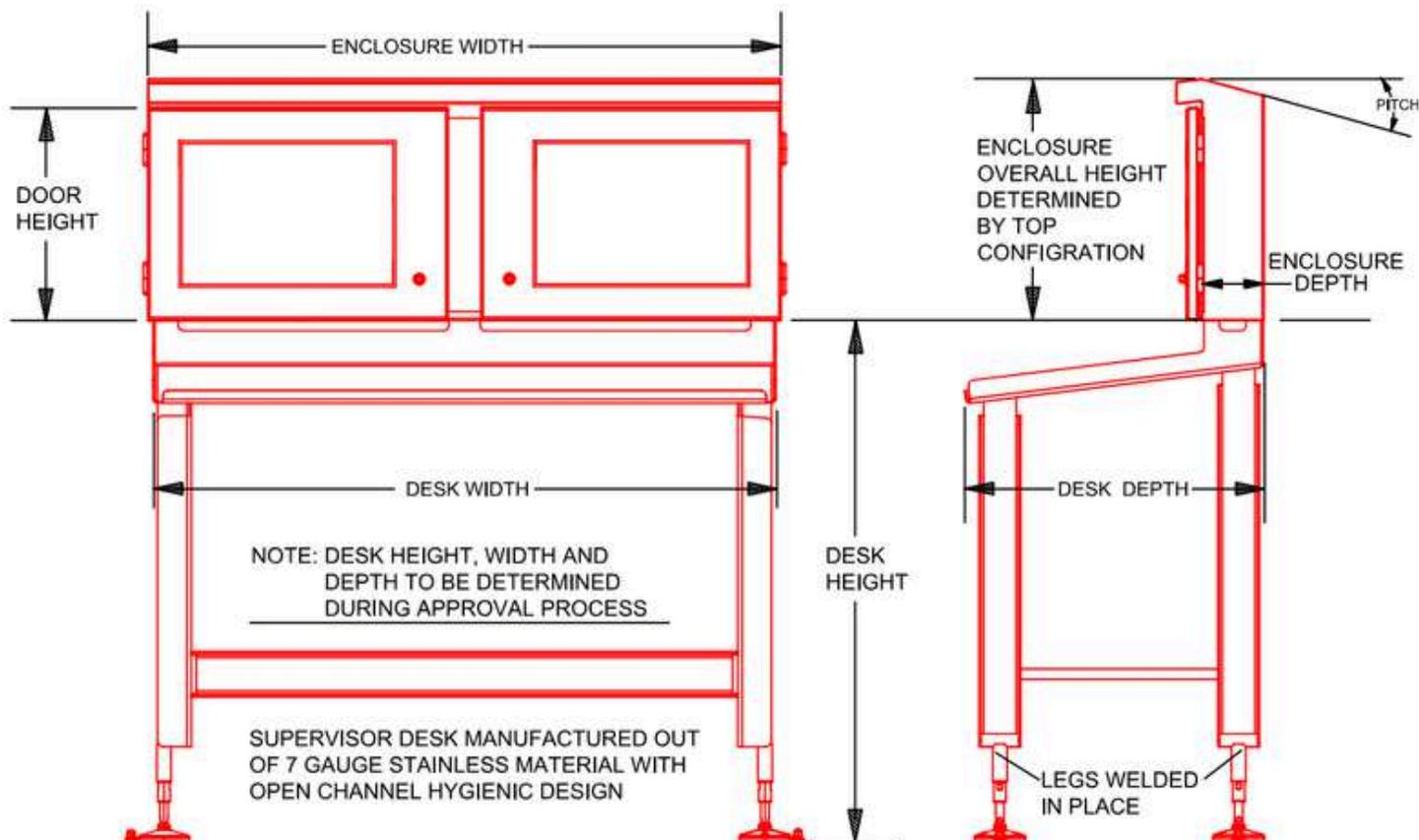


## MULTI DOOR - BACK PANEL PART # SYSTEM



NOTE: ALL DIMENSIONS ARE IN INCHES.

NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE



# THE *4X*Protect<sup>®</sup> DIFFERENCE

**UL** US LISTED TYPE: 4X

IEC Protection Ratings:  
IP66, IP68, IP69K

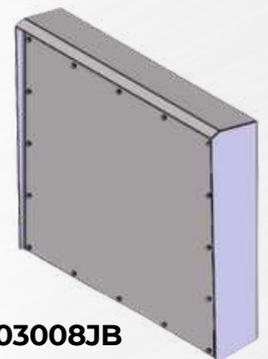
## ✓ SUPERIOR DESIGN - PRO SERIES ENCLOSURE DESIGN!



## ✓ PUSH BUTTON & JUNCTION BOX ENCLOSURES



**PRO-PB PUSH BUTTON ENCLOSURES**

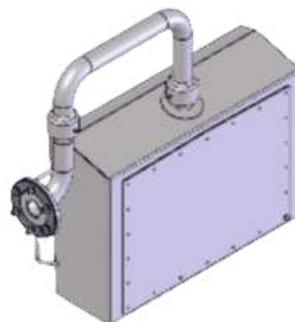


**PRO-303008JB  
JUNCTION BOX**

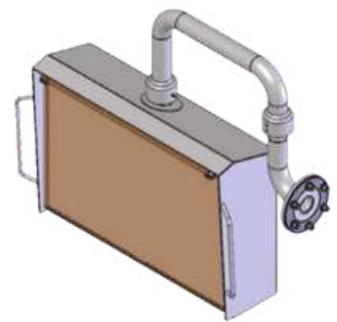
## ✓ HMI ENCLOSURES WITH SWIVEL ARM DESIGNS

### Options Include:

- Swing Arms
- Polycarbonate Window
- Grab Handles
- Custom Sized for Your Application



**PRO-HMI ENCLOSURE  
FRONT VIEW**



**PRO-HMI ENCLOSURE  
BACK VIEW**

# THE **4X**Protect<sup>®</sup> DIFFERENCE

**UL** US LISTED TYPE: 4X

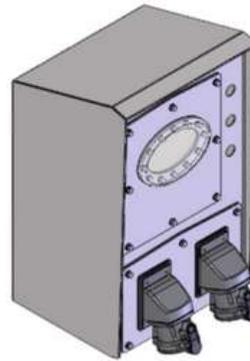
IEC Protection Ratings:  
IP66, IP68, IP69K

## ✓ VFD ENCLOSURES

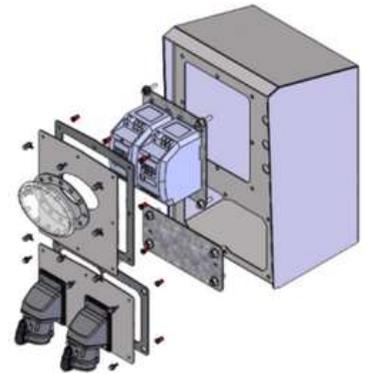
Install your NEMA Type: 1, IP10 Drives in our 4XProtect<sup>®</sup> VFD/VSD Enclosures.

### Frame Sizes Available:

- Drive Frame Sizes 1-5
- Includes Drive Window



PRO-VFDS1



EXPLODED VIEW

## ✓ POWER DISTRIBUTION



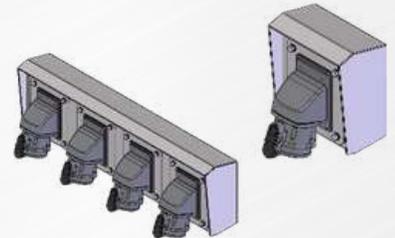
PRO-0612004JB



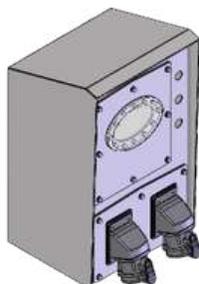
Meltric Switch-Rated Plugs

Let us help design your next power distribution application.

**BUILDING YOUR ENCLOSURES  
YOUR WAY!**



## ✓ CUSTOMIZED SOLUTIONS



PRO-VFDS1  
PRO-VFD Enclosures



PRO-0612004JB

XBF162008H15



**UL** US LISTED TYPE: 4X  
IP Ratings: IP66, IP68, IP69K

**PART # SYSTEM:**  
**PROTECT SERIES ENCLOSURES**

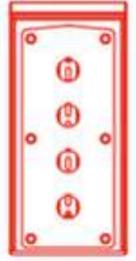


IP69K, IP68, IP66  
 Type: 4X, 4, 3R, 3, 1

**4XProtect**<sup>®</sup>

CUSTOM STAINLESS ENCLOSURES, INC.

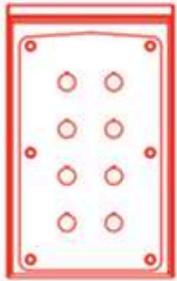
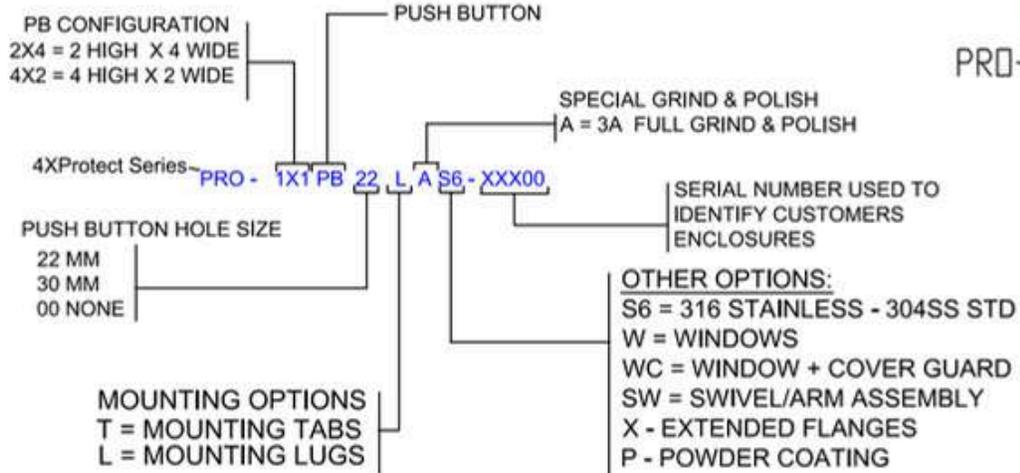
**PART# SYSTEM - PROTECT PB SERIES ENCLOSURES**



PRO-1X4PB30



PRO-1X1PB22

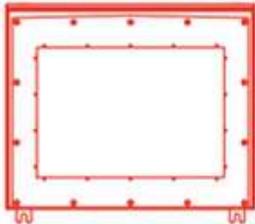
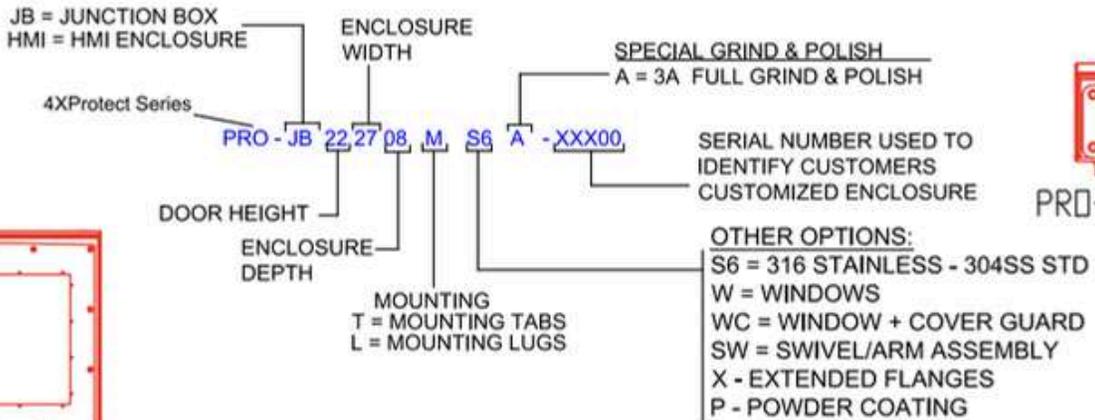


PRO-1X2PB22

**PART# SYSTEM - PROTECT SERIES JB & HMI ENCLOSURES**  
**CUSTOMIZED TO YOUR REQUIREMENTS**



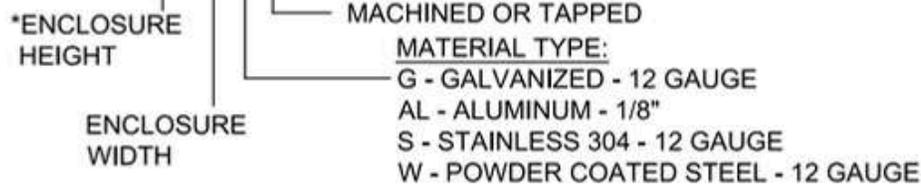
PRO-JB040903L



PRO-HMI212806T

**BACK PANEL PART # SYSTEM**

PRO-21P28-G M - (18" x 25") GALVANIZED BACK PANEL (- 3" FROM H & W)



PRO-JB040903-FV01

NOTE: \* BACK PANEL PART NUMBER IS TYPICALLY BASED UPON ENCLOSURE SIZE

# GET IN TOUCH



*651-500-3650*



*4xxtreme.com*



*sales@4xxtreme.com*



*700 S Cedar Ave, Marshfield, WI 54449*



**Type: 4X, 4, 3R, 3, 1**



**IP69K, IP69, IP66, IP68**