

Bebco Industries

Custom Metallic Enclosures Division

Advantages

- **Fast Delivery**
4-6 week availability for most designs and most quantities
- **Competitive Prices & Superior Quality**
The best possible product at the lowest possible price with great service before and after the sale
- **Complete Range of Services**
From initial design to complete packaging and system testing - Bebco does it all

Features

- **Fundamental Elements of Sound Enclosure Design**
Sound advice for novice and expert alike
- **Designing Your Own Enclosure**
Save lots of time and effort by creating your drawings in a style that's very easy, very concise and ready for immediate production
- **Doors, Hinges & Latches**
A wide variety of door styles and hardware options lets your imagination run free
- **Comprehensive Enclosure Fabrication Specifications**
Just fill in the blanks to ensure you get everything you want in your enclosure
- **Custom Packaging & Certification Services**
Need help? Send all the equipment to us. We're qualified to install any equipment you have and can help you secure any approval or certification you need

Design Guide & Specifications



A Complete Range of Services from Start to Finish

Quotations from Scratch or Spec

Starting from scratch may be the easiest method for securing an enclosure from Bebco. Our comprehensive specification work sheets and our courteous customer design assistance services make your task easy when you begin with Bebco. First, we will ask you to complete the work sheets contained in this brochure. We suggest that you copy these pages to allow future use. Then, following initial consultation, we will require sketches and additional notes to develop an initial design concept. From there, a quotation will be issued to you as quickly as possible, detailing the features and cost of your enclosure.

Upon acceptance of the quotation, a purchase order will be required to initiate your project. First, detailed construction drawings will be produced for your approval. During this phase, we actively consult with you to ensure the most economical and efficient design possible, while maintaining good engineering practices and high aesthetic values. Upon your acceptance of the approval drawings, fabrication will commence.

Total In-House Fabrication Capability

Construction begins with layout and fabrication of the enclosure parts. During this phase shears, CNC punch press and brake presses are utilized to cut, punch and bend all pieces of the enclosure. All parts are fitted and seam welded by hand to ensure a square structure. External welds are hand ground and polished to maintain high aesthetics. The craftsmen performing this work are highly qualified veterans, who have perfected their skills to artisan levels, through many years of conscientious effort and by fabricating hundreds of custom enclosures.

In the next phase, parts such as covers, shelves, hoods, subpans, mounting frames, and doors are attached. Latches, gaskets and trim are then fitted, and thorough inspection of the finished assembly will be performed to ensure exact compliance with your specifications. All hardware that cannot be masked will be removed prior to application of the finish.

Application of a Superior Finish

Bebco's Enclosure Fabrication Facility encompasses over fifty thousand square feet of building space, including fully ventilated and heated indoor spray painting and bead blasting departments. Within these departments, Bebco can attain bead blast, painted or zinc coated finishes, while brushed metal finishes are applied by the enclosure fabricator using factory grained material and hand polishing techniques that blend away any exterior blemishes or discoloration created during fabrication and welding.

Bebco has in-house capability for the application of many paints including epoxies, enamels and other more exotic paints. They may be applied in flat, textured or high gloss finishes. In addition, we can apply zinc metalizing (a process similar but superior to galvanizing). The technicians who will apply your finish are familiar with many different application methods and specifications, and have many years of experience. Coating thickness can be measured and certified upon request and warranties are applied to all finishing methods employed. Certified outside services are locally available for powder-coating, galvanizing, anodizing, plating or passivating.

Complete Custom Packaging Service

When your enclosure is finished, Bebco can skillfully install electrical or pneumatic equipment and instrumentation and provide legends, nameplates, wire, cable, pipe and tube interconnections. Time proven methods and good engineering practices by a staff of senior designers and fabricators are committed to ensure ultimate customer satisfaction. Bebco has provided this service for over thirty years, and we're highly renowned for the level of quality we have established and maintain. We're familiar with all forms of specifications, drawings, logic diagrams, and symbology and support electronic drawing transfer capabilities with current Auto-Cad® software.

More Than Just Purged Enclosures

Bebco is primarily recognized as the "Leader in Purging Technology®". However, we've also had over thirty years of metalforming experience and have produced thousands of custom enclosures. Although we don't compete with larger enclosure manufacturers, our clients consider our quality and service to be equal if not superior. Bebco specializes in small volumes, unique custom designs and fast delivery. Among many other enclosures, Bebco routinely fabricates large wraparound consoles, insulated housings, sanitary laboratory workstations and switchgear racks. So think Bebco when you need a custom enclosure. You'll receive exceptional personal attention and unparalleled satisfaction, and yes, if need be we can even purge it.

Our Gaskets Provide A Superior Seal

Contrary to larger manufacturers, Bebco is strongly committed to providing gaskets which are highly efficient, but most importantly, "replaceable". Unfortunately, other manufacturers interpret the NEMA stipulation for permanent attachment as a requirement to adhere neoprene rubber with adhesives or apply form-in-place beading. Regretfully, the gasket is the only part of the enclosure which may inevitably require replacement due to accidental damage or long term deterioration.

Therefore, Bebco has acquired U.L. approval for a replaceable gasket with an open tubular body. The gasket is strongly attached with embedded metal clips, and creates a superior seal with exceptional memory. It's installed as one wraparound piece with only one seam and minimizes pressurization leakage while providing adequate protection against rain and wash-down.



Bebco door gaskets are easily replaced and provide a high integrity seal with only one seam

NEMA Standards - In Brief

For reference only, the following information provides brief descriptions of NEMA Types and in (), NEMA's recommendation for conversion to IEC Enclosure IP Classification Designations based on IEC Publication #529.

NOTE: For specific information please refer to NEMA Standard #250.

- NEMA Type 1:** Intended for indoor use, this Type provides protection against limited amounts of falling dirt.
(IP 10)
- NEMA Type 3:** Intended for outdoor use, this Type provides limited protection against rain, sleet, windblown dust and external ice formation.
(IP 54)
- NEMA Type 3R:** Intended for outdoor use, this Type provides limited protection against rain, sleet and external ice formation.
(IP 14)
- NEMA Type 4:** Intended for indoor or outdoor use, this Type provides protection against windblown dust and rain, splashing or hose-down water and external ice formation.
(IP 56)
- NEMA Type 4X:** Intended for indoor or outdoor use, this Type provides superior corrosion resistance (utilizing 316 stainless steel) and protection against windblown dust and rain, splashing or hose-down water and external ice formation.
(IP 56)
- NEMA Type 12:** Intended for indoor use, this Type provides protection against circulating dust, falling dirt and noncorrosive liquids.
(IP 52)

Fundamental Elements of Sound Enclosure Design

Determining Your Needs

As with any project you'll tackle, sage wisdom and knowledge are your keys to success. Therefore, we've compiled frank advice on the problems that we've seen our customers encounter most often, to give you a better chance of avoiding the common mistakes which are most likely to affect your overall satisfaction with a custom enclosure from BebcO.

Sizing Up The Situation

Relative to any need to contain a group of objects is the size of the container. It is extremely important to consider the mass of all known devices and all possible devices will be installed within the finished enclosure. On countless occasions throughout our history, clients have requested the last minute accommodation of additional devices within a finished enclosure, only to discover that no practical space remained. This leads to the addition of awkwardly mounted devices and reduced serviceability or the need for additional enclosures. Either way, the oversight almost always proves to be both costly and time consuming.

Always provide at least 20% - 30% of additional free space on all interior subpans, shelves, racks and all other device mounting surfaces, including the face of any enclosure which supports through-mounted devices, unless the enclosure is designed for a uniquely exclusive purpose, such as a computer workstation or console.

The Shape Of Things To Come

The next most apparent consideration is the configuration or shape of the enclosure to be fabricated. In many instances, the overall configuration is simple enough - perhaps just a square box with one door on the front side. However, in many instances, imagination must be used to fit all elements of a particular application into a multifaceted enclosure.

Remember - the more complex the design, the more important it is to take advantage of BebcO's free assistance or compensated engineering services. This is the best way to ensure what you vision is what you get.

Only The Strong Survive

Tried and True Rule #1 - Don't use any sheet metal less than 14 gauge if you want a solid, quality enclosure. And no, we're not talking about tiny little boxes. We're talking about freestanding and wall mounted enclosures of several cubic feet in volume or larger, are designed for robust service in an industrial environment. In addition, many instruments are heavy, and when they are mounted in mass, they may pose a serious weight load consideration, thus affecting the overall design of the enclosure.

Most panel fronts containing a large array of instruments are no less than 3/16" plate steel. In addition, 2" x 1/4" steel bars are employed as stiffeners. When in doubt, use the term "Stiffeners as Required". This is our signal to consult with you on weight load considerations.

Did we miss anything that you want or need to know more about?

Call us at 1 (800) 652-3226 (that's ok-bebco) and ask for application assistance. We'll be here to help you!

Getting What You Want

What gauge? Which metal? This finish or that finish? If you don't have a spec, knowing what you'll want, and better yet, making sure you'll get it hasn't been easy up to now. For those of you who have a specification, the job is easier. But in many cases, you may need to express particular elements of a design that aren't in your spec. So for those of you who don't have a spec, or just want to double check, we created a very detailed enclosure specification. Our spec dissects all facets of the overall enclosure, to allow specific selection of all design elements. Life just got a little easier.

An Engineer's Worst Nightmare

A serious obstacle you face is a condition we refer to as "colidus". It's created when two objects are unknowingly designed to occupy the same space at the same time. This condition most often occurs at the inside corners of an enclosure when two adjacent subpans are laid out in a flat perspective, side by side, and loaded with devices from edge to edge. Subsequently, when the subpans are mounted at right angles to each other, the objects on the adjacent sides collide. This problem also occurs when panel mounted equipment depth is disregarded.

Remember, even though your design will likely be in two dimensions, it's important to visualize it in three dimensions. Forewarned is fore armed - Good Luck!

Don't Forget The Bells & Whistles

Q: When is the best time to consider all elements of a design?

A: Before you start building it!

One thing that should greatly concern you is making changes in the middle of a project. Many changes are simple, but some can be very costly. Think beyond the containment of devices alone, and consider the environment where the enclosure will be placed, as well as the access required for maintenance, calibration and service of the devices within. Most importantly, carefully assess any manners in or degrees to which you can simplify installation and operation of the equipment you're trying to protect.

Don't forget mounting clips if you intend to hang the enclosure on a wall. Add a hood, channel base and exterior light if the enclosure will be outdoors. Bottom line - take time to consider not only the task of packaging the equipment, but how your enclosure will be used. In the long run, everyone will benefit.

Measure Twice, Cut Once

The golden rule in carpentry also applies to enclosure design. You can't imagine the frustration and guilt that comes from sliding a beautiful instrument into a nice, shiny new enclosure, only to have it fall through the cutout. Just as frustrating is a cutout that's too small or misshapen. Regrettably, in our 30 year history, we've seen it happen far too often.

Never trust anything except certified drawings, and never hesitate to call the equipment manufacturer if you're not sure, or can't read their drawings. If you must convert from metric to english units, make the manufacturer verify your calculations. And if possible, secure the devices and measure for yourself. Another solution is to forward your devices to us with a WRITTEN request to double check all dimensions. Then you can be sure everything is correct before any steel is cut.

Designing Your Own Enclosure

Contrary to Popular Belief . . .

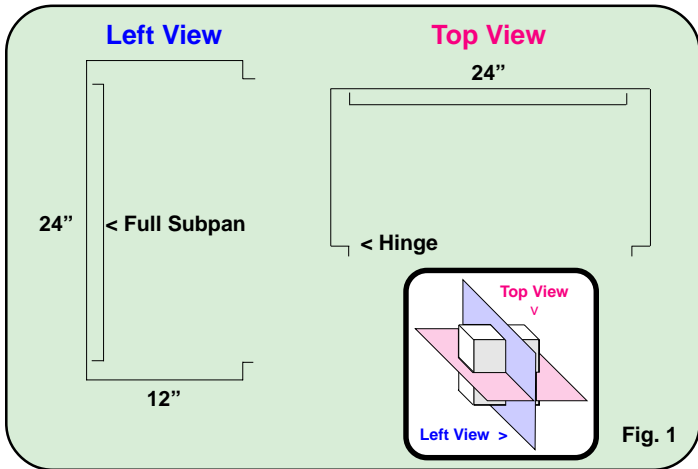
Perhaps the single most often held belief regarding enclosure design is that you must produce full elevation drawings from different perspectives. To the contrary, drawing an enclosure for fabrication is far easier, given you have a little training on what we need. At Bebcos, we make enclosure design easy, by pre-specifying a broad variety of standard latches and door flange designs, as shown on pages 6 and 7, to eliminate the time consuming task of designing complex aspects of your enclosure such as door flange dimensions as well as door hinge and latch spacing provisions.

To make things even easier, Bebcos utilizes good engineering practices and benchmarks to create enclosures that are well within the tolerances of industry standards. By selecting Bebcos as your vendor, you can rest assured that you'll be the recipient of a quality finished product, backed by our exceptional service and unending commitment to your satisfaction.

The First Step is Easy

The first step toward designing your own enclosure is to see an illustration showing cross sectional views of an enclosure body - the way Bebcos sees your enclosure. In other words, no matter what drawings you submit, we will translate it into the views in Fig. 1 below, before fabrication begins.

Let's start with a simple enclosure. It shall be NEMA type 4X, in 14 gauge 316 grade stainless steel, with a 3b brushed finish. It will measure 24 inches wide, 24 inches high and 12 inches deep. It shall feature one full size door on the front side, that is "surface" mounted with lift-off hinges on the left side and it will be fastened on the top, bottom and right sides with cam latches (see photos on page 6). It will have one full size subpan on the rear inside surface and mounting clips for wall attachment. Finally, it will have no cutouts. It's a simple enclosure like one you might buy off the shelf from a local supplier, with exception to its unusual depth, a feature which often forces customers to abandon the use of a standard, stocked enclosure.



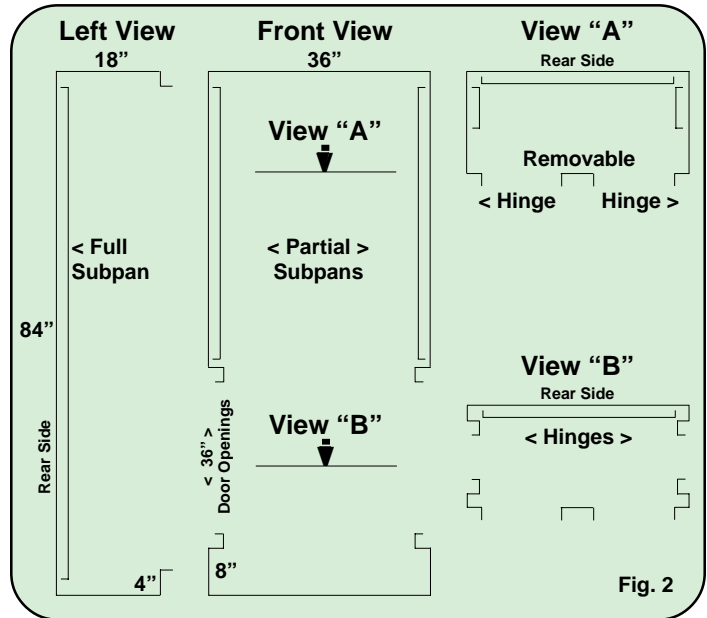
As you study this illustration, note the following important aspects:

- There is one cross section view each of the left side and the top side.
- Dimensions are shown only once to denote height, width and depth.
- The illustration shows the door hinged on the left side of the enclosure.
- Both views show a full subpan mounted on the rear inside surface.
- There are no door flange dimensions and the door is not shown.
- The drawing is simple and easy to understand.

Obviously, the drawing above could be far more complex. It could show full elevations of all sides. It could show fully dimensioned door and flange designs and details for hinge and latch placement. It could also detail the subpan, its studs and the wall mounting clips. But with Bebcos at your command these details are unnecessary, if you utilize the specification sheets included in this document. When properly completed, they cover all other critical aspects, and thus we require only the drawings you see above.

How to "View" Your Enclosure

For the purposes of this document, views defined as "Left", "Right", "Top", "Bottom", "Rear" and "Front" shall always represent true cross-sections. As you perceive the enclosure from its front side, the Front View would appear as if the enclosure had been cut in half, exposing the rear inside surface and edges of the top, bottom, left and right sides (as if looking into an open box). The left, right, top and bottom views would be similar, as if the enclosure had been cut in half to reveal the inside surface of the opposite side and the edges of all adjacent sides. In addition, it may be necessary to view the enclosure at a plane which is at a specific depth within the structure to reveal aspects that cannot be viewed by a true cross-sectional view. For example, two such views are shown in Fig. 2 below, labeled "A" & "B". Either way, be very careful to clearly identify the plane being viewed by its title.



If you carefully study Fig. 2 above, you should see the following: The enclosure is shown in four distinct views. First, a view from the left side, second, a view from the front side and finally two views, labeled "A" and "B".

Let's examine the Views one at a time. Starting with the Left View, you should easily note that the enclosure is 84" high and 18" deep. You'll also see it has solid top, bottom and rear surfaces. Next, it shows door flanges on the front side (facing right) at the top and bottom. Finally, the Left View indicates a "full" subpan on the rear inside surface, and a 4" height to the bottom of the front door flange.

Now let's examine the Front View. First you'll note the enclosure is 36" wide. This view also shows two "partial" subpans on the top left and right interior surfaces that extend from the top to just above the side door flanges. Next, looking toward the bottom, you'll see the enclosure features recessed door flanges on the left and right sides, (denoted by the inward turn you'll learn about next). The door openings are 36" high, and the door flanges are elevated 8" from the bottom. Finally, the Front View shows the viewing perspective of two other cross-section views denoted as "A" and "B". The arrows point downward, indicating the views are from the top, looking down.

View "A" shows the enclosure has double doors on the front, hinged to open away from each other, and a removable center-post or "mullion". In addition, View "A" shows the cross-sections of the rear subpan and the two side subpans (note they extend only halfway toward the front of the enclosure).

View "B" shows all four door flanges as they would appear if you sliced the enclosure at knee height and looked down from the top. It also shows that the side doors are hinged on the rear side. Can you envision this enclosure in three dimensions? If not, keep studying. It'll come to you.

The “Ins” and “Outs” of Door Flanges

As noted earlier, Bebcos makes enclosure design easy for you by offering a wide variety of hinges and fasteners and by pre-engineering various styles of door flanges for your enclosure. By using Bebcos standard designs, you eliminate the need to select hinges and fasteners and the need to calculate their position on your enclosure. To develop an understanding of what we offer, it is first important to understand there are basically two different mounting methods for doors, with some minor variances.

SURFACE MOUNTED DOORS

The first method is to mount the door on the outside of the enclosure. This type, which we call “surface mounted” protrudes from the enclosure and adds to the depth of the surface to which it is applied. Surface mounted doors may then be mounted in three different positions, relative to the edges of the enclosure. First, as we define these positions, the door may be “flush” mounted, meaning that the door extends to a width and height equal to the side of the enclosure to which it is affixed. This style is highly ergonomic, yet presents some drawbacks in functionality, primarily in that the door will not open or may drag or scuff when an adjoining side of the enclosure is placed against a solid surface such as a floor or wall. Next, a door may be “inset” to reveal a portion of the enclosure surface on one or more sides, thus creating a relief around the edges of the enclosure. While this style is also attractive, its primary detractor is that it will reduce the opening of the enclosure as compared to a “flush” door. Finally, as you can see in Fig. 2 on page 4, (at the bottom of the Left and Front Views) a door may be “inset” an additional amount to create necessary clearance or improve functionality of the enclosure. In all cases, the enclosure will feature outward facing flanges as shown in Fig. 3 below.

RECESSED DOORS

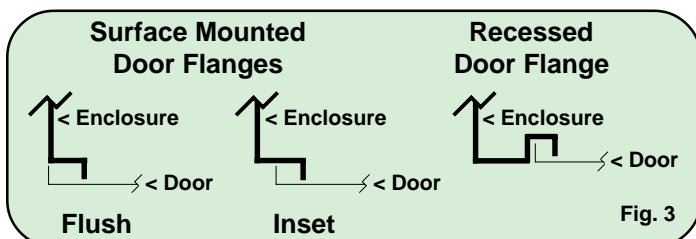
As the name implies, recessed doors are sunken into the surface of the enclosure and thus add no additional depth to the enclosure. However, due to the nature of its placement, this type of door consumes space within the enclosure and cannot be placed as close to a corner of the enclosure as surface mounted doors. In addition, due to the need for additional turns in the flanges on the enclosure, this door is more expensive to install and significantly reduces the enclosure opening. Although highly ergonomic, this type of door is rarely used because it is more expensive, unless aesthetic considerations greatly outweigh cost factors and functional purposes. In all cases, the enclosure will feature flanges with a series of turns as shown in Fig. 3 below.

MULTIPLE DOORS

In many instances, multiple doors are desired to create access to a particular side of an enclosure. Bebcos offers these types of doors in both surface mounted and recessed designs. As presented on Page 6, the most common type of multiple doors are “double” doors which are hinged on opposing sides, to open outwardly, away from each other as represented by the front doors on the enclosure in Fig. 2. Referred to as “latch to latch” these doors may be fastened in several different manners, but may also be offered in “hinge to latch” or “hinge to hinge” configurations as desired. For maximum strength and integrity that meets NEMA Type 4 and 4X requirements, center-posts or “mullions” are required, which may be permanently affixed or removable, as desired. In addition, for NEMA Type 1, 3, 3R & 12 requirements, Bebcos offers overlapping double doors which utilize a 3 point latch designed to clamp at the center, top and bottom of the two doors. In all cases, feel free to consult with a Bebcos Salesperson for more information and details regarding multiple door design and utilization.

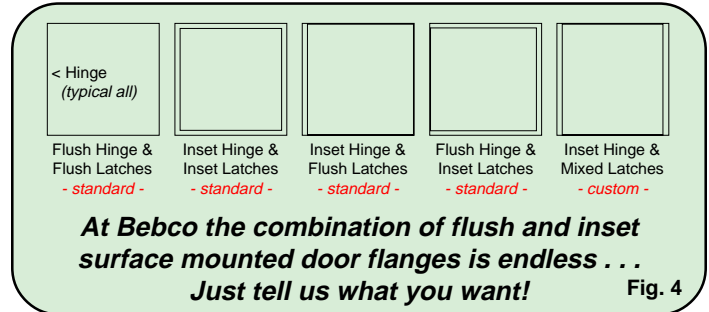
Illustrating Door Flanges

When you elect to utilize Bebcos standard door designs, featuring the replaceable enclosure mounted gasket shown on page 2, you need only show the basic shape of the flanges as illustrated below. No dimensions are required because you will be specifying a particular style of hinge flange and latch flange for each door illustrated in your enclosure design.



Mixing & Matching Door Flanges

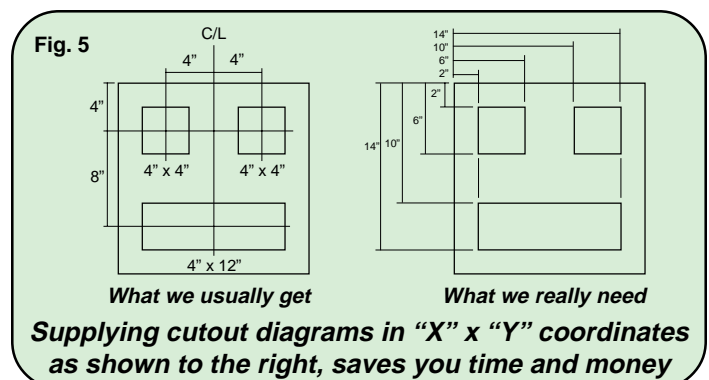
It’s not possible to mix or “integrate” surface mounted and recessed door flanges, or offer any variations in recessed door hinge and latch flanges. However, Bebcos extreme devotion and dedication to customer satisfaction, and our total commitment to flexibility provides interesting possibilities for surface mounted doors. When you select flanges for surface mounted doors, you are presented with hinge flanges and latch flanges separately. In all cases, they can be mixed and matched as desired. Normally, you will select one hinge flange design and one latch flange design. The hinge flange can be located in any position (i.e. left, right, top or bottom) while the latch flange will be utilized on all remaining sides. This allows you to select an inset hinge flange and flush latch flanges or visa-versa. Our specification sheets allow this practice easily, but please note you can also mix and match the latch flanges by placing a special request with us. Bebcos provides ultimate flexibility with minimum effort, just for you.



Illustrating Enclosure Cutouts

When illustrating cutouts in an enclosure surface or door, most clients will present a center-line guide to their position. However, unbeknownst to most laymen, all dimensions must be re-indexed as “X” x “Y” coordinates, based on a single corner reference point, in order to transfer the information to a CNC Punch Press or Laser Cutter. Note the examples in Fig. 5 below:

Important Note: Round holes only require a center-line coordinate




While we have translated thousands of drawings, you may wish to reduce the cost of your project by providing cutout details in “X” x “Y” coordinates. Each cutout must be plotted in this manner before it is punched.


Other Important Points to Ponder

- Indicate the radius of any rounded edges, corners and cutouts.
- Indicate the degree of any surface or cutout angle other than 90°.
- Ensure that all doors will open freely and fully in the final position where the enclosure will be installed.
- Mark all holes with a clearance diameter or with a thread size.
- Show all fractional dimensions to the 3rd decimal place (0.000).
- Ensure clearance for the bezel and footprint of all devices, especially when devices are mounted beside each other or near door latches.
- Indicate interior or exterior view for all cutout or stud detail drawings.
- Provide adequate weight support rail clearance between devices.
- Provide one inch flange space for all gland or cover plates.
- Provide adequate clearance to operate flange mounted door clamps.
- Indicate additional space between the edge of any inset doors and the corner of your enclosure, as required for added clearance.
- Never assume - Murphy’s Law is an equal opportunity destroyer.


A Full Array of Hardware Lets You Choose How It Goes Together




Hand, Key or Tool Operated Mini Cam Latch




Cam Latch
Our Most Popular Latch for Pressurized Enclosures



Clamp Latch




Flush Latch



3-Point Latch
The Ideal Latch For Large Double Door Enclosures in General Purpose Locations



Lift-Off Hinge



Piano Hinge



Soft Clamp™ Window Mounting System



H-Gasket Window Retainer

Door Latching Hardware

MINI CAM LATCH

Style: Draw Action Turning Vice Clamp
Suitability: All NEMA Types - Doors not exceeding 2' square
Operation: Hand, Key or 1/8" Hex Allen Wrench
Finish & Material: Anodized Aluminum Face & Zinc Plated Steel Body
Primary Use: Small Flush or Inset Surface Mounted Doors

CAM LATCH

Style: Draw Action Turning Vice Clamp
Suitability: All NEMA Types - Doors exceeding 2' square
Operation: 5/16" Hex Allen Wrench
Finish & Material: Anodized Aluminum Face & Zinc Plated Steel Body
Primary Use: Flush or Inset Surface Mounted Doors

CLAMP LATCH

Style: External Mount Vice Action Sliding Clamp
Suitability: All NEMA Types - Doors exceeding 2' square
Operation: Screwdriver or 5/16" Hex Wrench
Finish & Material: Polished 316 Stainless Steel
Primary Use: Inset Surface Mounted Doors Only

FLUSH LATCH

Style: Draw Action Lift & Turn Vice Clamp
Suitability: NEMA Types 1, 3, 3R & 12
Operation: Lift and Turn by Hand
Finish & Material: Chrome Plated Face & Zinc Plated Steel Body
Primary Use: Recessed Doors

3-POINT LATCH

Style: Turning Plate & Rod Clamp
Suitability: NEMA Types 1, 3, 3R & 12
Operation: Hand Operation w/ Tumbler Key Lock
Finish & Material: Chrome Plated Operator & Zinc Plated Steel Body
Primary Use: Large Surface Mounted Single or Double Doors

Fasteners spaced in accordance with good engineering practices & applicable requirements of NEMA #250, UL #50 & IEC IP Standards

Door Hinging Hardware

LIFT-OFF HINGE

Suitability: All NEMA Types where door removal is desired
Finish & Material: Polished 316 Stainless Steel
Primary Use: Flush or Inset Surface Mounted Doors

PIANO HINGE

Suitability: All NEMA Types where door removal is not critical
Finish & Material: Polished 316 Stainless Steel
Primary Use: Flush or Inset Surface Mounted & Recessed Doors

Window Mounting Trim & Hardware

SOFT-CLAMP™ WINDOW MOUNTING SYSTEM

Suitability: All NEMA Types for easy window replacement
Finish & Material: Black Neoprene Rubber Window Clamps & Trim
Primary Use: For replaceable windows w/ 1/2" radius corners

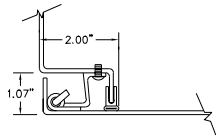
H-GASKET WINDOW RETAINER

Suitability: All NEMA Types for permanent window placement
Finish & Material: Black Neoprene Rubber
Primary Use: For permanent windows w/ 2" radius corners

Be careful to ensure adequate clearance between selected door mounted latches and window mounting systems or trim

Bebco's Standard Door Designs Come Any Way YOU Want Them

Surface Mounted Doors

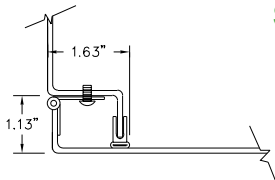
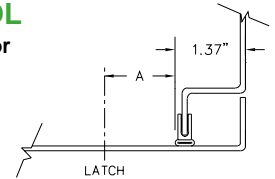


Style FLH
Flush Lift-Off
Hinge

Flush Styles

Offered with Lift-Off or Piano Hinges
For Cam, Flush or 3-Point Door Latches

Style FDL
Flush Door
Latch



Style FPH
Flush Piano
Hinge

IMPORTANT NOTES

Flush & Inset Surface Mounted
Door heights determined
by selection of Hinge

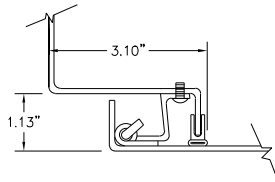
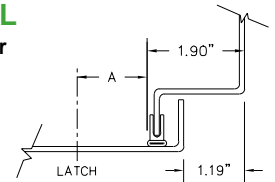
Dimension "A" denotes
inside edge of Latch

Cam Latch:	1.50"
Flush Latch:	2.25"
3-Point Latch:	3.25"

LATCH SIDE

HINGE SIDE

Style IDL
Inset Door
Latch



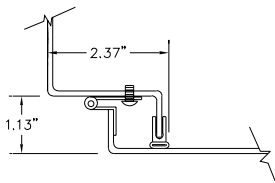
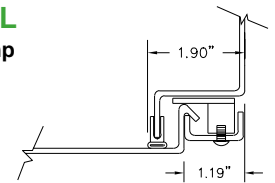
Style ILH
Inset Lift-Off
Hinge

Inset Styles

Offered with Lift-Off or Piano Hinges
For Cam, Flush or 3-Point Door Latches
& Clamp Latches

Insets shown are at minimum distance
Increase as required to create additional inset

Style ICL
Inset Clamp
Latch

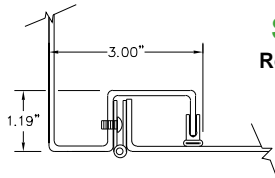


Style IPH
Inset Piano
Hinge

HINGE SIDE

Recessed Doors

LATCH SIDE

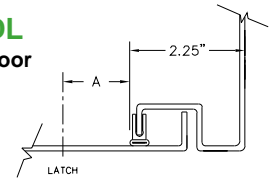


Style RPH
Recessed Piano
Hinge

Offered with Piano Hinges
For Cam, Flush or 3-Point Door Latches

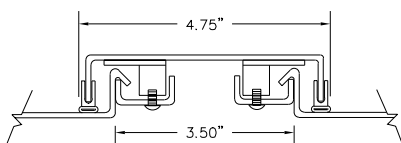
All Flange Styles shown are suitable for all
NEMA Types with exception to Style ODL

Style RDL
Recessed Door
Latch

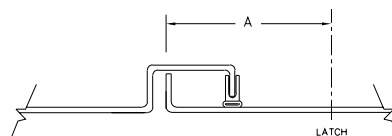


Multiple Door Latches

For Surface Mounted & Recessed Doors



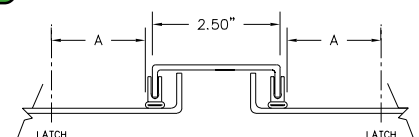
Style DCL
Double Door
Clamp Latch



Style ODL

Overlapping Door Latch

Suitable for NEMA Types 1, 3, 3R & 12 Only



Style DDL
Double Door
Door Latch

Be careful to ensure adequate clearance between selected door mounted latches and the bezel and body of any door mounted devices

Enclosure Specification Notes

DIMENSIONS: Specifies overall exterior dimensions of enclosure, in inches or millimeters. To begin, the front or "face" of the enclosure must be selected or determined, and dimensions should be based on that perspective. Overall height will therefore reflect the maximum distance from the lowest point to the highest point of the enclosure. Overall width (left to right) and overall depth (front to rear) must be indicated similarly. Exclude additional height, width or depth created by surface mounted doors. However, non detachable extensions such as keyboard shelves should be included in these dimensions.

NEMA TYPE: Bebcos designs and fabricates all enclosures to meet or exceed various NEMA Standard #250 Types as listed on page 2. Each design offers a different level of protection, as described in brief on page 2, and should be selected based on the minimum level of protection required. **When specifying a Bebcos Custom Metallic Enclosure, NEMA Type 4X construction requires the selection of 316 grade stainless steel material.**

MATERIAL: Choices are carbon steel, 316 grade stainless steel and 5052 grade aluminum, or "Other" as specified. All body, door, face and subpan parts shall be fabricated from the same material, as selected, unless otherwise specified separately in writing.

BODY & DOOR GAUGES: Choices of 14, 12 & 10 gauge materials are offered for various levels of integrity across several size ranges as follows: Body and door surfaces not exceeding a size of 3 square feet should be fabricated from 14 gauge. Beyond a size of 3 square feet, 12 gauge material is strongly recommended to maintain square corners and flat surfaces. Beyond a length of 8 feet in any direction, 10 gauge material with stiffeners may be required to maintain reasonable structural integrity that prohibits structural twisting, bowing and permanent deformation.

FACE GAUGE: The face gauge can usually be selected based on the information above. However, to accommodate large, numerous or heavy panel mounted instrumentation, or large surface areas, it may become very necessary to use 3/16" steel plating, which shall be furnished with stiffeners as required, to prevent excessive bowing of the surface.

MOUNTING METHOD: Specifies various provisions for securing the enclosure. If the user intends to provide his own method, none or free standing is an appropriate choice. If the enclosure is specified as a Nema Type 3R, 4, 4X or 12 design, and wall mounting provisions are necessary, mounting clips welded externally to each corner are required. Mounting holes are suitable wall mounting provisions for Nema Type 1 and 3 enclosures, floor stands, pendants and channel bases. Floor stands and pendants are specified under the Enclosure Hardware Section. Drawings are required for dimensions and structural aspects. Channel bases are 4" iron beams which can be recessed on any side to provide a toe kick space, and/or inverted to expose the flange for external clamping.

Indicate specific location of mounting clips or holes on drawings, if required.

SUBPANS: For interior device mounting, all subpans (sometimes referred to as sub-mounting panels) will be 14 gauge or heavier and shall feature a 1/2" - 1" turn-back flange when exceeding a dimension of 2 square feet. All subpans shall be secured to welded studs with lock-washers and hex nuts. **Indicate side, percentage of partial coverage or full size, and quantity.**

DOORS: As detailed on page 7, each door requires selection of a hinge flange style and a latch flange style. If mixed latch flange styles are desired, as shown on page 5, mark all that apply. Single doors shall be formed in one piece, while double doors shall feature two overlapping doors or doors which seal against a permanent or removable center-post (mullion). Surface or recess style selections determine the enclosure's door flange construction as shown on page 7. Lift-off and piano hinge selections determine door hinging hardware as shown on page 6. Mini cam, cam, clamp, 3-point and flush latch selections determine the door latching hardware as shown on page 6. If mixed latch types are desired, mark all that apply.

See Important Notes on Page 7 for more information regarding door hinge and latch flange selection.

WINDOWS: Formed from 1/4" thick Mar-Guard™ Lexan®, safety glass or wire mesh reinforced glass, as selected. H-gasket shall specify a permanent mounting system with heavy duty compression fit molded rubber with 2" radius corners; and Soft Clamp™ shall specify a removable, reusable mounting system with a 1/2" radius corners, as shown on page 6.

Specify height and width as inches or millimeters, and indicate position of windows on drawings to be supplied with these specifications.

Enclosure Specification

DIMENSIONS: U.S. (inches) Metric (millimeters)

Overall Height: _____

Overall Width: _____

Overall Depth: _____

NEMA TYPE: 1 3 3R 4 4X 12

MATERIAL: C.S. 316 S.S. 5052 Alum.

Other-Specify: _____

BODY & DOOR GAUGES: 14 12 10

Other-Specify: _____

FACE GAUGE: 14 12 10 3/16" 1/4"

Other-Specify: _____

MOUNTING METHOD: Special Requirement - See attached drawing
 None / Free Standing
 Mounting Clips Mounting Holes
 Floor Stand or Pendant -See hardware specs
 Channel Base - Recessed Inverted

SUBPANS: Special Requirement - See attached drawing

Front > 25% > 50% > 75% Full Qty: _____
 Rear Percentage > 25% > 50% > 75% Full Qty: _____
 Left of Partial > 25% > 50% > 75% Full Qty: _____
 Right Coverage > 25% > 50% > 75% Full Qty: _____
 Top or Full Size: > 25% > 50% > 75% Full Qty: _____
 Bottom > 25% > 50% > 75% Full Qty: _____

DOORS: Special Requirement - See attached drawing

Front Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

Rear Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

Left Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

Right Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

Top Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

Bottom Hinge Style: FLH FPH ILH IPH RPH
Latch Style: FDL IDL ICL RDL DDL DCL ODL
Latch Type: Mini Cam Cam Clamp 3-Point Flush

WINDOWS: Special Requirement - See attached drawing

Front Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Rear Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Left Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Right Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Top Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Bottom Lexan® Safety Glass Wire Mesh Glass
 H-Gasket Soft Clamp™
Viewing Area: _____ Height _____ Width inches mm

Enclosure Hardware

LIFTING EYES: Threaded (removable) Welded

FLOOR STAND: Removable Fixed Drawing
 Overall Size: _____ Height _____ Width _____ Depth inches mm

PENDANT: Removable Fixed Drawing
 Stationary Articulating: Qty of Joints _____
 Overall Size: _____ Height _____ Width _____ Depth inches mm

KEYBOARD EXTENSION: Removable Fixed Drawing
 Overall Size: _____ Height _____ Width _____ Depth inches mm

EXTERIOR SHELVING: Qty: _____ Adjustable Fixed Drawing
 Overall Size: _____ Height _____ Width _____ Depth inches mm

INTERIOR SHELVING: Qty: _____ Adjustable Fixed Drawing
 Overall Size: _____ Height _____ Width _____ Depth inches mm

MOUNTING STRUT: Drawing
 Front Adjustable Fixed _____ Length in mm Qty: _____
 Rear Adjustable Fixed _____ Length in mm Qty: _____
 Left Adjustable Fixed _____ Length in mm Qty: _____
 Right Adjustable Fixed _____ Length in mm Qty: _____
 Top Adjustable Fixed _____ Length in mm Qty: _____
 Bottom Adjustable Fixed _____ Length in mm Qty: _____

EIA RAIL: Drawing
 Front Adjustable Fixed _____ Length in mm Qty: _____
 Rear Adjustable Fixed _____ Length in mm Qty: _____
 Left Adjustable Fixed _____ Length in mm Qty: _____
 Right Adjustable Fixed _____ Length in mm Qty: _____
 Top Adjustable Fixed _____ Length in mm Qty: _____
 Bottom Adjustable Fixed _____ Length in mm Qty: _____

GLAND / COVER PLATES: Drawing
 Front Blank Pre-Punched _____ Length _____ Width in mm
 Rear Blank Pre-Punched _____ Length _____ Width in mm
 Left Blank Pre-Punched _____ Length _____ Width in mm
 Right Blank Pre-Punched _____ Length _____ Width in mm
 Top Blank Pre-Punched _____ Length _____ Width in mm
 Bottom Blank Pre-Punched _____ Length _____ Width in mm
 Other-Specify: _____
 Other-Specify: _____
 Other-Specify: _____

HOODS / AWNINGS: Removable Fixed Drawing
 Front _____ Overhang inches mm
 Rear _____ Overhang inches mm
 Left _____ Overhang inches mm
 Right _____ Overhang inches mm
 Lighting Fixture Flanges: Front Rear Left Right
 Lighting Fixture Specifications Attached
 Drip-Shield Flanges: Front Rear Left Right

SWING-OUT PANELS / INTERIOR DOORS: Drawing
 Front _____ Height _____ Width in mm
 Rear _____ Height _____ Width in mm
 Left _____ Height _____ Width in mm
 Right _____ Height _____ Width in mm
 Other-Specify: _____
 Other-Specify: _____

PURGEABLE INSTRUMENT ACCESS DOORS: Drawing
 Front _____ Height _____ Width in mm
 Rear _____ Height _____ Width in mm
 Left _____ Height _____ Width in mm
 Right _____ Height _____ Width in mm
 Other-Specify: _____
 Other-Specify: _____

Enclosure Hardware Notes

LIFTING EYES: Specifies placement of eye bolts for lifting enclosure with overhead crane. Dependent on the size and weight of the enclosure, 3/8" to 3/4" eye bolts will be used, and can be permanently attached or threaded for removal. **If eyes are removed from outdoor or pressurized enclosure, holes must be sealed with gasket washer and bolt.**

IMPORTANT NOTE: Specification of each following item provides information for estimating purposes only. Exact position of all items must be indicated on attached drawings for fabrication of enclosure. Signify compliance by checking "Drawing" flag for each item selected.

FLOOR STAND: Raises enclosure to suitable working level. Permanently affixed or bolted to bottom of enclosure and includes necessary flanges with predrilled bolt holes to facilitate easy installation in the field. Height specifies overall height of floor stand only.

PENDANT: Suspends enclosure at suitable working level. Permanently affixed or bolted to enclosure with necessary flanges, predrilled bolt holes and articulating "joints", as required, to facilitate easy installation in the field. Articulating, adjustable and weight balanced units available - consult BebcO.

KEYBOARD EXTENSION: Intended for the accommodation of a keyboard or operator interface, keyboard extensions can be removable or fixed, and can be installed at any position desired. Attached drawings must detail any mounting holes or cutouts required for installation of keyboard or cables.

EXTERIOR SHELVING: Providing a horizontal surface on the exterior surface of the enclosure, exterior shelves can be removable or fixed, and can be installed at any position desired. Flanges are provided as required to ensure stability and strength. Specify adjustable or fixed position on attached drawings.

INTERIOR SHELVING: Providing a horizontal surface inside the enclosure, interior shelves can be adjustable or fixed in position and can be installed at any position desired. Flanges are provided to ensure stability and strength. Specify adjustable or fixed position on attached drawings.

MOUNTING STRUT: Vertical or horizontal rails that are adjustable (bolted) or fixed (welded) to a side of the enclosure for support of large or heavy objects which are not suitable for direct attachment to the surface of a subpan or the enclosure. "U" shaped channel accepts spring nuts of various sizes that may be placed in any position on the strut. Specify adjustable or fixed position on attached drawings.

E.I.A. RAIL: Also known as "retma rail", this rail is typically installed in pairs for 19" rack mount instruments. Moderate weight support and a continuous pattern of threaded holes are provide for standard rack instrument attachment. Specify adjustable or fixed position on attached drawings.

GLAND / COVER PLATES: Used for conduit and cable entries or for access to specific interior components, Gland or cover plates may be positioned on any surface desired. They are bolt or screw fastened and feature gaskets and washers when mounted on any NEMA Type 3, 3R 4, 4X or 12 enclosure. Plates can be furnished "blank" (with no holes) or pre-punched (in accordance with attached drawings) for the accommodation of entrance hubs.

HOODS / AWNINGS: Extending outward to provide an operator's shield against rain and other inclement weather, these units can be fixed or bolted for easy attachment in the field. In addition, they may include lighting fixture flanges and/or drip-shield flanges on any side as required.

SWING-OUT PANELS / INTERIOR DOORS: Often used to increase mounting surface area, or to support instruments which require front and rear access for operation, wiring and calibration. These panels or doors may be mounted on one side with continuous (piano) or lift-off hinges and are usually bolt or latch fastened to a flange on the opposite side of the enclosure. Adequate clearance between the enclosure door flange and the rear edge of an instrument mounted through an interior door must be ensured. Specify hinge and latch style on attached drawing.

PURGEABLE INSTRUMENT ACCESS DOORS: A popular accessory item for stand-alone purchase, these doors are used to allow access to the face of a surface mounted instrument, while providing a positive seal for purging and protection against inclement weather. See BebcO Specification Bulletin PIAD-R1.1 for more information.

Enclosure Finish Notes

IN-HOUSE SERVICE: The first step toward applying a finish to your enclosure is determining whether you prefer the application of services furnished "in-house" at Bebcos or by outside services. Bebcos applies the most effective finish, urethane spray paint, in an environmentally controlled chamber, following bead blasting (if required) and primer application. In addition, Bebcos can use brushed metal and hand polish all welds to produce a brushed finish. In more exotic applications, Bebcos can also produce bead blasted finishes or apply a flame-spray application of zinc metallized coating.

OUTSIDE SERVICE: Perhaps the most popular finishing service offered outside our company is powder coating, an incredibly strong and highly resistant paint finish. Other outside services include galvanizing, anodizing, plating and passivating, as described below.

PAINT (spray / powder): Suitable for all materials, each paint offers various properties as listed below. The customer may also specify a specific type, brand and color as required.

FINISH COMPARISON CHART ON 0-10 SCALE WHERE 10 IS BEST QUALITY

	Corrosion Res.	Acid Resistance	Solvent Res.	Mar Resistance	Color/Gloss	Weatherability
Enamel Spray:	5	4	3	3	9	5
Epoxy Spray:	8	4	8	10	2	6
Urethane Spray:	9	7	6	10	8	10
Epoxy Powder:	9	10	8	10	2	3
Urethane Powder:	6	6	8	10	9	7

FINISH & THICKNESS: These selections determine the appearance and durability of paint finishes. The choice of flat or high-gloss may be dependent on existing fixtures in the area of installation. If no standard prevails, we strongly recommend a textured finish to make the touch up of occasional scratches easier to conceal. A thickness of 3 mils offers a typical life of 3-5 years in most industrial environments, free from any significant deterioration. A thickness of 4 mils has a life of 5-10 years, while a thickness of 6 mils has an expected life of 10 -15 years.

BRUSHED FINISH: These selections determine the grade of finishes for stainless steel and aluminum materials. 3B is typically used when a grained finish is desired. 4B can be used for slightly grainier finishes, while 2B gives the appearance of a slick, smooth surface with no visible grain. 3B and 4B finishes can be replicated by hand on welded corners, but welds on 2B material will always show a slight deviation.

METALIZED FINISH: Intended for carbon steel material only, zinc is melted and applied at high velocity to achieve a finish equivalent but superior to galvanizing. Performed after metal is blasted to near white, this material offers lives of 3-5, 5-10 and 10-20 years, free of rust or defects in the corresponding 5, 10 and 15 mil thicknesses listed.

ANODIZED, PLATED & GALVANIZED FINISHES: These selections require the use of outside services. Bebcos uses certified agents who have demonstrated an ability to maintain quality and response. Written documentation to fully specify the desired finish and finish certification should accompany this document. **Enclosure size limitation may apply. Please consult with a Bebcos factory sales agent for more information.**

INSULATION VALUE & TYPE: Select the preferred R-Value and Type. Insulation R-Factors - Batting: R-3 per Inch, Sheeting: R-7 per Inch **Polyisocyanurate is strongly recommended as a worker friendly material.**

INSULATED SURFACES: Determine surfaces to be insulated and select.

INTERIOR METAL LINER: For greater integrity than foil backing, Bebcos can also add metal liners to shield the insulation from damage and create a truly ergonomic and clean interior. Primarily utilized for analytical systems.

LINER GAUGE & ATTACHMENT: Determines metal gauge of liner material and method of attachment to enclosure. Rivets fasten the liner permanently while screws allow removal for future replacement of insulation.

Enclosure Finish

IN-HOUSE SERVICE: Spray-Painted Brushed Blasted Metallized

OUTSIDE SERVICE: Powder-Coated Galvanized Anodized Plated Passivated

Other-Specify: _____

PAINT (spray/powder): Enamel Epoxy Urethane White Black ANSI 61 Grey

Color-Specify: _____

Specific Brand: _____

PAINT FINISH: Flat High-Gloss Textured

Other-Specify: _____

PAINT THICKNESS: 3 Mil 4 Mil 6 Mil

Other-Specify: _____

BRUSHED FINISH: 2B 3B 4B

Other-Specify: _____

METALIZED FINISH: 5 Mil 10 Mil 15 Mil

Other-Specify: _____

ANODIZED FINISH: **Enclosure Size Limitations Apply - Consult Bebcos**
 Standard Marine MIL-8625 Black Clear Color (specify)

Other-Specify: _____

PLATED FINISH: **Enclosure Size Limitations Apply - Consult Bebcos**
 2 Mil 3 Mil 5 Mil Nickel Chrome Zinc Black Bright

Other-Specify: _____

GALVANIZED FINISH: 2 Mil 3 Mil 5 Mil

Other-Specify: _____

Special Enclosure Finish Requirement - See attached specifications

Enclosure Insulation & Interior Liner

INSULATION VALUE: R-7 R-14 R-21

Other-Specify: _____

INSULATION TYPE: Fiberglass Batting Foil Backed Fiberglass Sheeting Foil Backed Polyisocyanurate Sheeting

Other-Specify: _____

INSULATED SURFACES: All Interior Surfaces

Rear Sides Top Bottom Doors

Other-Specify: _____

INSULATION RETENTION: Seam Tape Only Tape w/ Welded Pins & Retainer Clips

INTERIOR METAL LINER: C.S. 316 S.S. 5052 Aluminum

LINER GAUGE: 20 18 16 14

LINER ATTACHMENT: Rivets Screws

Special Insulation & Liner Requirement - See attached specifications

*- Interior metal liner may preclude the need for insulation retention
- Fiberglass batting is not recommended without interior metal liner*

Hazardous Environment Protection

HAZARDOUS AREA CLASSIFICATION: (Mark all that apply)

USA AREA CLASSIFICATION: Class: I II Division: 1 2
 (National Electric Code - Article 500) Group: A B C D E F G

USA ZONE CLASSIFICATION: Class: I II Zone: 1 2
 (National Electric Code - Article 505) Group: IIC IIB IIA

EUROPEAN ZONE DESIGNATION: Zone: 1 2
 (IEC/CENELEC - Standard 50014) Group: IIC IIB IIA

REQUIRED THIRD PARTY CERTIFICATION: (Mark all that apply)

Organization: UL FM CSA Baseefa PTB Demko Sira
 Other-Specify: _____

OTHER CRITICAL DEVICE CONCERNS: (Mark all that apply)

- General Purpose Devices Division 2 or Zone 2 Devices
- Devices w/ High Sensitivity to Airflow (Optics)
- Devices w/ High Sensitivity to EMF or RF Interference
- Devices w/ High Sensitivity to Vibration
- Devices w/ High Sensitivity to Corrosion or Highly Corrosive Area
- Devices w/ Multiple I/O Signals (Video or Computer Equipment)
- Devices w/ Surface Temperature Exceeding 200 °C (T3)
- Internal Device Requires Access while Maintaining Pressurization
- Printed Material Output Required while Maintaining Pressurization
- Exchange of Data Discs Required while Maintaining Pressurization
- Analytical System Devices w/ Flammable Gas or Liquid
- Panel Mounted Instrumentation (penetrating surface of enclosure)
- External Keyboards or Peripherals (mouse, bar code reader, etc.)
- Other-Specify: _____
- Other-Specify: _____

Special Protection Requirement - See Attached Information

Environmental Control (HVAC)

PREFERRED HVAC EQUIPMENT:
 (Mark all that apply)

- Ventilation Fan
- Continuous Flow Vortex Cooler
- Vortex Cooler w/ Thermostat
- Passive Heat Exchanger
- Heat Exchanger w/ Air Assist Fan
- Air Conditioner w/ Thermostat
- Electric Heater w/ Thermostat
- Steam Coil w/ Thermostat

Other-Specify: _____

PREFERRED FILTRATION EQUIPMENT:
 (Mark all that apply)

- Disposable Filters
- Washable Filters
- HEPA Filtration

EQUIPMENT BTU OUTPUT (Heat Load): _____

EQUIPMENT VENTILATION REQUIREMENTS (SCFM): _____

HEPA FILTRATION (PPM): _____

EQUIPMENT COOLING REQUIREMENTS (BTU): _____

INSTALLATION SITE AMBIENT TEMPERATURE RANGE (°F or °C): _____

INSTALLATION SITE AMBIENT HUMIDITY RANGE (Specify %): _____

INSTALLATION SITE ENVIRONMENT:

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Indoor <ul style="list-style-type: none"> <input type="checkbox"/> Insulated Building <input type="checkbox"/> Non-Insulated Building <input type="checkbox"/> Outdoor: <ul style="list-style-type: none"> <input type="checkbox"/> Shielded from Cross-Winds <input type="checkbox"/> Not Shielded from Cross-Winds | (Mark all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> No HVAC <input type="checkbox"/> Ventilated <input type="checkbox"/> Heated <input type="checkbox"/> Air Conditioned <input type="checkbox"/> Full Shade <input type="checkbox"/> Partial Shade <input type="checkbox"/> Direct Sunlight |
|--|---|



Bebco specializes in the integration of purging & pressurization systems



Bebco can also integrate fans, air coolers & HVAC equipment to complete your total design concept

The superior quality of a large enclosure manufacturer and fast response, low prices & amazing flexibility of a small company, all in one, at Bebcu Industries



Fully packaged & tested systems or empty shells



All the bells & whistles or plain vanilla



Even when we're not told exactly what it is, or exactly how it works, we can still enclose it!

When you need a custom enclosure, just dial 1-800-OK-BEBCO!

Local Sales Representative

Bebco Industries, Incorporated
Custom Metallic Enclosure Division
Corporate Sales Group
600 Gulf Freeway
Texas City Texas 77591
(800) OK-BEBCO
(800) 652-3226
WWW.OKBEBCO.COM
Phn: (409) 935-5743
Fax: (409) 938-4189

IMPORTANT NOTES

All specifications subject to change without notice.
Warranty & Liability policies available upon request.