

Bebco Industries

Industrial Shelters Division



**Modular Industrial Housing for Equipment & Personnel
Specifically Designed for Petro-Chemical, Aerospace, Waste Water,
Military & Offshore Applications**

The Leading Example of Craftsmanship

The Highest Quality Available

... through every step, from budgetary estimate to project completion

Bebco has a proud history as a leading manufacturer of custom industrial products on the Texas Coast for more than thirty years.

Since entering the market, Bebco has fabricated shelters for a wide array of applications, in accordance with many similar specifications.

The key difference between Bebco and other manufacturers is our continuing efforts to improve our products.

As a result, Bebco offers many innovations to age-old design standards that we proudly display here. With an eye toward satisfying your most demanding applications, and with the goal of ensuring that our shelter will meet or exceed every expectation you may have, you can rest assured that Bebco Shelters will always withstand the harsh test of time.

Best of all, Bebco backs our products with immediate "no questions asked" on-site service, second to none in the industry.

Typical Applications

- Control Systems
- Switchgear
- Metering Stations
- Analyzers
- Communications
- Instrumentation
- Motors & Pumps
- Compressors
- Worker's Quarters
- Chemical Storage
- Equipment Storage
- Command Centers

Benefits

- Existing Engineering Specifications Available
- Designed with Numerous Component Options
- Offered in Economical & Optimum Quality Designs
- Reduces Costly Field Construction Labor
- Ideal for Multi-Story & Offshore Installations
- Permits Rapid Equipment Installation & Start-Up
- Allows Prepackaging of Controls & Instrumentation
- Eliminates Field Access to Prepackaged Equipment
- Suitable for Interstate Highway Transportation
- Built with Industrial Grade, Light-Weight Materials
- Portable, Reusable & Warranted For Long Life
- Designed for Maximum Strength & Aesthetic Appeal

Features

- Available in any size or shape desired
- Standard Interior Wall Heights up to 12 feet
- Open, Decked, Sump or Grating Covered Bases
- Galvanized, Aluminum, Stainless Walls & Roofs
- Fiberglass Coated Walls & Roofs
- Batting, Foil Back Foam & Spray Foam Insulations
- Flat, Shed & Gable Roof Styles
- Flush, Splash & Gutter/Downspout Roof Trims
- Standard or Custom Built Single & Double Doors
- Bulkhead, Window, Flooring & Ceiling Accessories
- Shelter Lifting & Anchoring Hardware
- Full or Partial Length Detachable Awnings & Hoods

Bebco offers complete, expert packaging services to meet every need

A New Facility Meets Every Need

... with ample space, equipment and manpower to satisfy any project scope

1,000 Feet Long! • 110,000 Square Feet!



A 40 Ton Bridge Crane handles all the heavy lifting tasks



A Bead Blasting Unit is positioned in-line with a Cut-Off Saw to prepare all structural beams



The Base Fabrication Area covers 15,000 square feet and is fully equipped for speed and accuracy

Designed specifically for the fabrication of our industrial shelters, this modern facility is still under development, but will feature five major sections. Shelter Base fabrication begins at the far end, adjacent to the machine shop area where wall and roof system components will be prepared. Finishing is accomplished in the next area, where all blasting and coatings will be applied. The next section is an assembly area where the bases will meet the wall and roof components. Finally, the front area of the facility is reserved for packaging, where equipment will be installed and tested, prior to your inspection and shipment preparation. Without any doubt, this will soon be one of the finest, most well equipped facilities in the gulf coast region. We encourage you to tour it any time!



Metal Wall & Roof Systems

... speedy construction, lightweight materials and amazing quality!



Following the completion of the decked base, wall panels are erected and secured in place.

As each exterior wall panel is secured, temporary braces are added as required, prior to the addition of roof panels. Interior walls and entry vestibules are added next.

Within just one day, all interior and exterior walls are completed!



Cutouts for HVAC ducts, windows and bulkheads are added after erection, while door frames are integrated directly into the wall panel system to maximize their strength and preserve the shelter's appearance. Removable transoms above each door provide extra clearance required to install or remove large equipment. To complete this phase of assembly, a wall cap is installed to support the roof panels.



Craftsmen then install the wall insulation, interior liner, roof insulation, roof panels, awnings and lifting extensions. Next, trim is added and the final paint finish is applied. The suspended ceiling, raised flooring and all equipment is then ready to be installed.

Once construction and client inspections are finalized, all hoods are carefully removed and packed. Equipment is then secured, and all openings in the shelter are sealed to keep the interior area clean during transportation.



This shelter features a raised access floor and suspended tile ceiling system for a series of cabinets which were installed along with a central HVAC unit, lighting system and service disconnects.

Shelters with standard metal wall and roof systems can be completed within 4-6 weeks. An additional 2-4 weeks is usually required to package equipment.



Fiberglass Wall & Roof Systems

... tiltwall style fabrication with a totally seamless, corrosion-proof finish!



Following the construction of a base and modular wall assemblies, each of which includes all cutouts for doorways, windows HVAC ducts and bulkheads, construction follows a methodical technique similar to tiltwall construction. Although many hours go into the production of each piece, erection of the building is accomplished within a few hours.

This shelter features a stainless steel removable transom above the door which will permit the installation of switchgear that will be positioned over conduit access openings in the base.



All walls are positioned, squared and tack welded, prior to the installation of screws that attach each wall to the next and to the base. Long draw clamps are used to ensure that each corner is tightly and securely joined.

The interior wall surfaces have a near-final finish, while exterior walls are only partially coated. Final coatings are applied later in the production process in order to seal all surfaces inside and out.





With years of experience between them, only three highly skilled craftsmen make this project look much easier than it actually is. As the roof is lowered into place, the structure is ready to finish.



After one more gel coating is applied, the surface is filled, floated and sanded. Then a final fiberglass coating is applied to the entire shelter surface inside and out, to produce a seamless finish.

Major Component Options

... an unparalleled range of choices allow you to tailor the design

Shelter Bases

- **Standard Weight Capacities**
250-500 pounds per square foot
Custom Ranges Up to 2500 pounds
- **Frame & Deck Materials**
Carbon Steel, Galvanized or Zinc Metallized Steel, 6061 Aluminum or 304 or 316 Stainless Steel
- **Paint Finishes**
Standard - Primer w/ White Trim, Unfinished or Custom, As Specified
- **Standard Deck Styles**
Open Frame (no deck)
1/4" Flat or Checkered Deck
1/4" Flat or Checkered Drain Sloped Deck
- **Custom Deck Styles**
Galvanized Steel Grating w/Open Bottom
Chemical Resistant Grating w/Open Bottom
Galvanized Steel Grating w/Sump Bottom
Chemical Resistant Grating w/Sump Bottom
- **Insulation, Coating & Under-Liners**
Type: Spray Applied or Sheet Insulation
R Values: R-7 per Inch, Range: 1" - 4"
Spray Applied: Polyisocyanurate Foam
Sheet: Foil Back Polyurethane or Fiberglass
Mastic Coating: Fire Resistant @ 3-6 MILS
18 Gauge Bolted or Welded Under-Liners
- **Shelter Base Accessories**
Electrical Grounding Pads and Clamps
Concrete Anchor Bolts & Clamping Plates
Bolt-On Lifting Eyes & Extension Channels

Shelter Walls & Roofs

- **Wall & Roof Panel Materials**
Standard: 18, 14 or 12 Gauge
Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel or Fiberglass
- **Wall Heights**
Standard: 8' -12' Custom: as specified
- **Paint Finishes**
Standard - Primer w/ White Finish, Unfinished or Custom, As Specified
- **Interior Metal Wall Panel Liners**
Standard: 18, 14 or 12 Gauge
Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel
Rivet or Screw Fastened
- **Standard Wall & Roof Insulations**
Type: Batting or Sheet Insulation
R Values: R-7 per Inch, Range: 1" - 3"
Batting: Un-Faced Fiberglass (walls only)
Sheet: Foil Back Polyurethane or Fiberglass
Custom 4" Insulation available upon request
- **Standard Roof Styles**
Flat Roof, 1:60 Pitch Shed Roof
1:12 or 3:12 Pitch Gable Roof
- **Standard Trim Styles**
Flush Trim, Splash Trim
or Gutter & Downspout Trim
- **Doorway Frames**
Single or Double Doorways

Shelter Doors

- **Door Body Materials**
Standard: 18, 14 or 12 Gauge
Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel or Fiberglass
- **Standard Door Styles**
1-3/4" Thick Polyurethane Sheet Insulated
2' or 3' Wide - Left or Right Hinged
4' Wide Double - Open or Center Post
6' Wide Double - Open or Center Post
- **Door Heights & Transoms**
Standard: 7'-9' Custom: As specified
Optional Bolted Removable Transoms
- **Paint Finishes**
Standard - Primer w/ White Finish, Unfinished or Custom, As Specified
- **Standard Window Sizes**
12"h x 12"w Centered Window
24"h x 24"w Centered Window
30"h x 24"w Centered Window
24"h x 08"w Latch Side Window
- **Glass Types**
1/4" Laminated Safety Glass,
with or without Wire Reinforcement
- **Latching Hardware**
Stainless Locking or Passage Knob
Aluminum Locking Panic Bar
Stainless Steel Locking Panic Bar
Throw Bolts (second door latching)
Stainless Steel Deadbolt Assembly
Custom, As Specified
- **Keying Sequences**
Key Door Alike w/ No Master Key
Key Door Different w/ No Master Key
Independent Zone Lock w/ Master Key
Custom, As Specified
- **Door Closers & Retainers**
Standard Aluminum Door Closer
Aluminum Door Closer w/ Hold Open
Stainless Steel Door Retainer Chain



Major Accessory Options

... standardized specifications ensure easy enhancement

Fixed Windows

• Style & Materials

Single Pane 1/4" Laminated Safety Glass, in H Frame Rubber Gasketing, with or without Wire Reinforcement
Standard Sizes: 1' - 6' wide x 1' - 3' high

Operating Windows

• Standard Single Hung (1 over 1)

Single Pane 1/8" Glass or 1/4" Laminated Safety Glass with or without Wire Reinforcement in Anodized Aluminum Frame with Latch & Screen
Sizes: 2' & 3' wide x 2', 3', 4' & 5' high

• Horizontal Sliding - Same as Above

Sizes: 3' high x 3', 4', 5' & 6' wide

Base Bulkheads

• Materials

12 Gauge or 1/4" Plate Carbon Steel, Galvanized or Zinc Metallized Steel, Aluminum, 304 or 316 Stainless Steel

• Standard Sizes

12" & 24" wide, 12", 24" 36" & 48" long

• Styles

Bolt Fastened Recessed Plate
Styles: Blank, with Pre-Punched Holes or Split Weld Couplings, As Specified

Wall Bulkheads

• Materials

Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

• Standard Sizes & Styles

12" wide, 12", 24" 36", 48" & 60" high
Flush Mount Exterior Bolt Fastened Plate
Concealed Interior Recessed Pan
Blank or with Pre-Punched Holes

Flooring

• Paint Finishes

Plain or Slip Resistant Polyurethane

• Vinyl Laminate or Tile Flooring

Thicknesses: 1/8" & 1/4"
Color & Pattern: As Specified

• Access (Raised) Flooring System

250-500 pounds per square foot
Custom Ranges Up to 2500 pounds
Style: 2' Square Tiles
Jack Stand Elevations: 2" to 36"
Color & Pattern: As Specified

Ceilings

• Interlocking Sheet Metal Panels

Materials: Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

Note: Fiberglass Shelters feature insulated roof w/ finished interior surface

• Suspended Ceiling Panels & Grid

Style: 2' Sq. Tiles & Full Grid Framing
Color & Pattern: As Specified

• Ceiling Insulation

Type: Batting or Sheet Insulation
R Values: R-7 per Inch, Range: 1" - 3"
Batting: Un-Faced Fiberglass
Sheet: Foil Back Polyurethane or Fiberglass
Custom 4" Insulation available upon request

Awnings

• Materials

Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

• Standard Sizes & Styles

24", 36" & 48" Wide w/ Drip Ledge
Partial, Full Length or Wrap-Around

• Customer Specified Attachment

Style: Permanent or Removable

Equipment Platforms

• Standard Capacities

250 - 2500 pounds per square foot

• Materials

Carbon Steel, Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

• Customer Specified Placement

Level or Elevated Above Deck
Open, Solid or Grating Covered Surface
Permanently or Bolt Fastened to Deck

Mounting Strut

• Weight Load Capacities

Horizontal 8'-12' Span - 400 lbs.
Vertical 8'-12' Span - 2500 lbs.

• Materials

Carbon Steel, Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

• Customer Specified Placement

Horizontal & Vertical
Interior & Exterior
Permanent or Removable

Wall Insulation Retainers

- Utilized on Metal Wall & Roof System Shelters that do not feature interior liners

• Materials

Galvanized Steel, 3003 Aluminum, 304 or 316 Stainless Steel

Note: Compatible only with Foil Backed Polyurethane or Fiberglass Sheeting



Standard Bebco Shelter Sizes

Shelter Widths x Lengths

Interior Wall Heights - 8', 10' & 12'

Single Width Shelters					Single or Double Width Shelters				
06	08	10	12	14	16	18	20	22	24
06x06	08x08	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24
06x08	08x10	10x12	12x14	14x16	16x18	18x20	20x22	22x24	24x26
06x10	08x12	10x14	12x16	14x18	16x20	18x22	20x24	22x26	24x28
06x12	08x14	10x16	12x18	14x20	16x22	18x24	20x26	22x28	24x30
06x14	08x16	10x18	12x20	14x22	16x24	18x26	20x28	22x30	24x32
06x16	08x18	10x20	12x22	14x24	16x26	18x28	20x30	22x32	24x34
06x18	08x20	10x22	12x24	14x26	16x28	18x30	20x32	22x34	24x36
	08x22	10x24	12x26	14x28	16x30	18x32	20x34	22x36	24x38
	08x24	10x26	12x28	14x30	16x32	18x34	20x36	22x38	24x40
		10x28	12x30	14x32	16x34	18x36	20x38	22x40	24x42
		10x30	12x32	14x34	16x36	18x38	20x40	22x42	24x44
			12x34	14x36	16x38	18x40	20x42	22x44	24x46
			12x36	14x38	16x40	18x42	20x44	22x46	24x48
				14x40	16x42	18x44	20x46	22x48	24x50
				14x42	16x44	18x46	20x48	22x50	
					16x46	18x48	20x50		
					16x48	18x50			
					16x50				

Standard Bebco Shelters are limited to a maximum width to length ratio of 1:3. Custom Shelters not exceeding a 6' minimum to 50' maximum width or length are available upon request.

Single Width Shelters which exceed a 14 feet width require special permits and two (2) vehicle escorts.

Double Width Shelters are shipped in two (2) sections, equal to one-half of total width. Most Double Width Shelters can be shipped on one truck, in two pieces, for field assembly.

Custom Shelter Fabrication

Working from your specifications, or engineering to your ideas, Bebco can fabricate modular shelters to satisfy a wide variety of applications. Some of the more typical variations to standard industrial shelters included:

- **Shed Type Shelters**
 - Open Face with Ventilated Walls
 - Structural Framing and partial sheeting coverage
- **Stacking or Multi-Story Shelters**
 - Normally ranging from 2 to 5 Stories
 - Self-aligning ball and socket or bolt-on stacking hardware
 - Furnished with balconies, stairwells and/or elevators
- **Platform Oil Rig or Data Logger Shelters**
 - 1/4" plate walls, doors and roof and reinforcement framing
- **Elevated Shelters - on-site erection required**
 - Self-supporting framework, elevations from 3 to 20 feet
 - Furnished with balconies, stairwells and/or elevators
- **Extreme Condition or Special Purpose Shelters**
 - Extreme Temperatures, Sound Attenuated, Noise Containment
 - Severe Corrosion, Blast or Seismic Shock Resistant,
- **Knock-Down or Kit Form Field Erected Shelters**
 - Standard or Custom Designed Metal or Fiberglass Shelters
- **Oversized Shelters - above 24 x 50 feet**
 - Shipped in one piece or in modular sections
- **Custom or Modified Shipping Containers**
 - Any size, custom built or modified for any purpose



General Information

Availability *

- **Standard Shelters**
Sheet Metal - 3-4 Weeks
Fiberglass - 4-6 Weeks
 - **Custom Shelters**
Sheet Metal - 4-6 Weeks
Fiberglass - 6-8 Weeks
 - **Expedited Delivery ****
Sheet Metal - 2-4 Weeks
Fiberglass - 3-5 Weeks
- ** Subject to parts availability
Charges will vary depending on overtime requirements.
- * All availabilities based on Bebcos receipt of Approved Construction Drawings and are dependant on openings in our existing work schedule.

Quotations

- **Standard Shelters**
Customer is required to utilize standard Bebcos Shelter Specifications. A placement diagram, to dimension the preferred location of each door, each piece of equipment and each accessory is then required. Quotations can usually be issued within one to five business days of inquiry.
- **Custom Shelters**
Customer must submit three (3) complete sets of specifications and drawings. Quotation issued within three business days.

Warranties

Bebco offers exemplary warranties against premature corrosion, paint finish degradation and defects in materials, parts and craftsmanship. Warranties cover all parts and labor required for repair, in the unlikely event of a confirmed failure.

Sheet Metal Shelters - 3 years

Fiberglass Shelters - 5 years

This information is not intended to state or imply specific terms of any quotation and is presented strictly as a guideline for the buyer. Please refer to your particular quotation's terms for complete and detailed conditions of implied Bebcos Product Warranty.

Shipping

- **Bebco Site Delivery**
At your request Bebcos can coordinate and assume full responsibility for insurance, permits, escorts, loading, transportation and placement.



- **Customer Pick-Up**
Clients can arrange all services, assuming full responsibility upon successful loading at Bebcos facility.

Engineering & Packaging



Bebco can package many forms of equipment and instrumentation to your exact specifications. As a value added feature, Bebcos can design and engineer many turnkey control and process systems for the petrochemical, pharmaceutical and aerospace industries.

- **Instrumentation**
 - Pressure, Flow, Level and Temperature Instrumentation
 - Telemetry, *SCADA & Satellite Communications Equipment
 - Hardware Logic, *HMI, PLC & Data Management Systems
- **Analyzers**
 - Gas Chromatography & Infra-Red or Ultra-Violet Spectrometry
 - Sample Extraction, Conditioning & Recovery Systems
- **Switchgear & MCC Packaging**
 - Modular Unit or Component Level Assembly
 - Buss Bar, Buss Tray & Entry Gland Plate Fabrication
- **Environmental Control Systems**
 - General Purpose & Hazardous Location HVAC Systems
 - Pressurization & Ventilation Systems
- **Safety Systems**
 - Toxic or Flammable Gas, Fire & Smoke Detection Systems
 - Chemical or Water Sprinkler Fire Extinguishing Systems
 - Emergency Evacuation, Eyewash & First-Aid Stations
- **Personnel Quarters**
 - Sleeping, Lounging, Cooking & Personal Hygiene Facilities
- **Control Centers**
 - Instrument Control Panels & Operation Management Centers
 - Overhead Displays & Operator Interface Consoles



Other Products From Bebco

Environmental Control Units Division

UL Listed Hazardous Location
Air Conditioners & Heat Pumps

UL Listed Hazardous Location
Pressurization & Ventilation Units



Economy Grade



Industrial Grade

- Suitable for all Bebco Shelters
- Available for Division 1 & 2 Areas
- Wide Range of Features & Options
- Standard & Custom Product Versions
- Full Complement of Accessories
 - Intake Stacks & Guy Wire Kits
 - Thermostats & Disconnects
 - Gas Detectors & Sensors
 - Duct Work



Remote Mount



Wall Mount

Custom Metallic Enclosures Division

- Any Size or Shape Desired
- Exemplary Packaging Service
- Carbon, Aluminum or Stainless
- Built to many NEMA & IEC Standards
- NFPA 496 Purging System Installation
- Superior, Replaceable Gasket Systems
- Wide Variety of Door Hinges & Fasteners
- Painted, Anodized or Electro-Polished Finish



***NEW!**



Consoles



One-of-a-Kind



Free-Standing

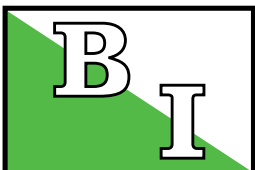
***NEW!**

- Highly Ergonomic Rolled & Radius Edge Designs

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