

## Application and Design

The 180 MPH Enclosure is a Dade County style Penthouse that has been approved to withstand winds up to 180 MPH. This model is designed to enclose roof top HVAC units on schools, hospitals, and shelters in high tornado and hurricane areas. Drawings certified by South Florida Miami/Dade Co. Engineer.

## Standard Construction

### Louvers:

6063-T6 extruded aluminum with .081" (2.1mm) thickness. All units incorporate hidden mullions at 24"(610mm) centers for blade support. Frame and blades of louvers are welded. Louvers are removable for equipment servicing.

### Framing:

Materials vary according to the size of the equipment to be enclosed. (engineer's drawing to be furnished per job). All cross bracing fastened with  $\frac{3}{8}$ "-16 x 1" stainless steel machine screws. Post connections are bolted with  $\frac{1}{2}$ " galvanized steel bolts per ASTM A-307 designation. All screws are #304 or #316 stainless steel with 50 ksi yield point and 90 ksi tensile strength or corrosion resistant coated carbon steel as per DIN 50018. All welding to conform with American Welding Society AWS D.1.2, 1998 regulation with certified welders using 5356 electrodes.

Vertical Columns: Aluminum 6061-T6 4"x6"x $\frac{1}{4}$ " [102mmx152mmx6.35mm] tubes

Horizontal Perimeter Beams: 6063-T6 4"x2"x $\frac{1}{8}$ " [102mmx51mmx3.18mm] tubes

Horizontal Intermediate Beams: 6063-T6 4"x2"x $\frac{1}{4}$ " [102mmx51mmx6.35mm] tubes

Diagonal Structural Channel: 6061-T6 Alum Alloy 5"x1 $\frac{3}{4}$ "x0.190" [127mmx44mmx4.82mm] (2.32 lbs/ft.)

Foot Plates: 8" x10" x  $\frac{3}{8}$ " [203mmx254mmx9.53mm] thick 6061-T6 Alloy  
(to be attached with (4)  $\frac{1}{2}$ "[12.70]Ø stainless steel power bolts, by others)

### Roof: open

### Finish:

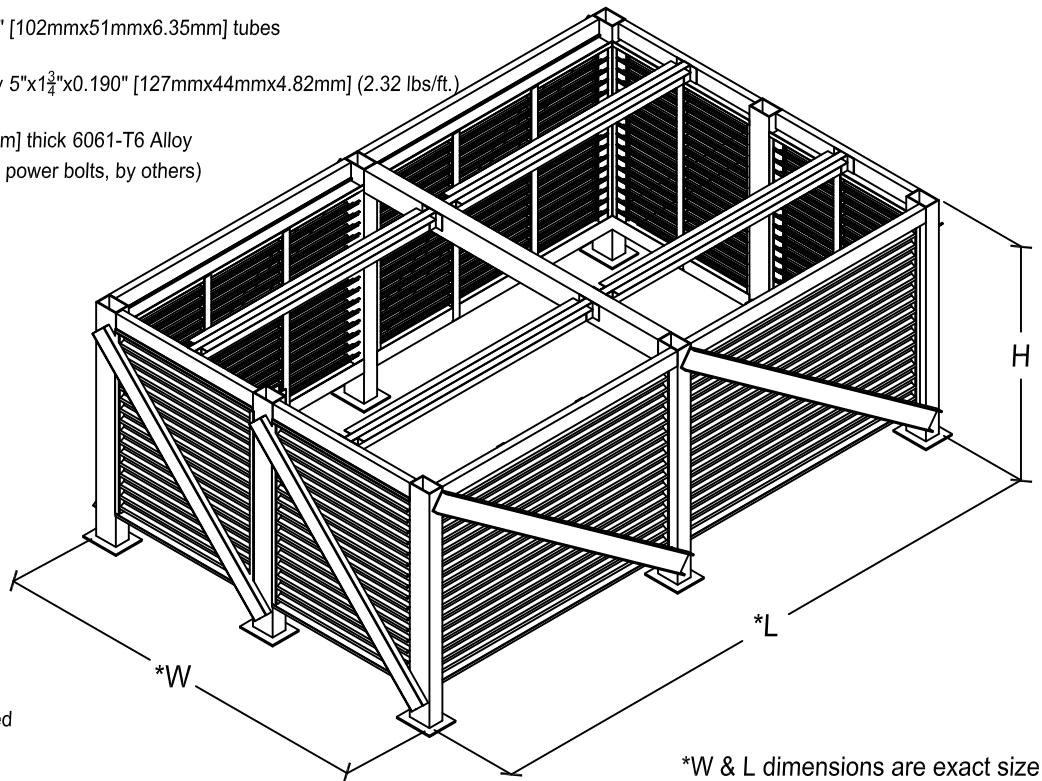
All aluminum mill finish for low maintenance and resistance to corrosion.

### Sizing:

Order size is actual Outside Dimension of Enclosure (Post O.D. to Post O.D.).

### Options:

- Baked Powder Polyester TGIC
- Baked Powder Super Durable
- Kynar 500
- Hurricane Approved Metal Roof Panels  
20 ga. galvanized steel Miami-Dade approved



Tag	W	L	H	Qty.	Options

Job Name:	<input type="checkbox"/> <b>180 MPH EQUIPMENT ENCLOSURE</b>					
Location:						
Architect:				DRAWN BY: CLJ	DATE: 7-29-03	REV. DATE: 9-20-13
Engineer:				REV. NO. 10	APPROVED BY: BGT	DWG. NO.: <b>B-7</b>
Contractor:						