



Critical Enclosure Design Specifications

1. What is the intended functional use for the enclosure?

- Surface Ship
- Submarine
- Aircraft
- Mobile Vehicle
- Land Based

2. For Defense applications, identify ALL MIL-specifications and MIL-standards to be met

3. Survivability:

- What environmental conditions are required to be met?
 - Shock (MIL-S-901D) _____
 - Deck Frequency of concern (Hz) _____
 - System designation Type _____ Grade _____
 - Mounting requirement:
 - o Hard Deck Mounted _____
 - o External Isolation System _____
 - o Internal Isolation System _____
 - Preferred Test Method
 - o Barge _____
 - o Shock Machine _____
 - How fragile is the electronic equipment to be installed?
 - o Is there a maximum G-load to consider?
 - Vibration (MIL-STD-167) _____
 - EMI/RFI _____
 - Frequency Range(Hz) _____
 - Attenuation (db) _____
 - Salt Spray _____
 - Drip Proof _____
- Who is responsible for testing?
- Who approves the test configuration and test plan?
- Will simulated weights be used?
- Who is responsible for generating the post-test report?

4. Enclosure Configuration:

- What is the weight and center of gravity (CG) for each set of electronic equipment to be installed in the enclosure?
- What is the total electronic equipment payload?
- Will cables be supported by the enclosure rear panels?
 - o If **YES**, what is the cable/harness payload?
- Will cables enter the enclosure from the base?
- Is front accessibility **only** required?
 - o Will rear access be required?
 - o Will maintenance and repair be accomplished via front access only?

5. What are the enclosure's maximum outside dimensions?

- H _____
- W _____
- D _____

6. What are the enclosure's required useable inside dimensions?

- H _____
- W _____
- D _____

7. Will the enclosure have?

- Side Panels _____
- Rear Panels _____
- Front Door _____ Hinged (R/L) _____
- Rear Door _____ Hinged (R/L) _____
- EIA Holes: Front _____ Rear _____
- Drip Proof Requirement _____
- Humidity Requirement _____

8. Will the enclosure need any of the following Protective Coatings or Markings?

- Chem Film _____
- Primer _____
- Paint _____ Color _____
- Silkscreen _____ Color _____
- Engraving _____ Fill Color _____
- Stencil _____ Color _____
- Steel Stamp _____
- UID/RFID _____
- Other _____

9. Will the enclosure require any of the following documentation?

- MIL-T-31000 _____ Level _____ QTY _____
- Top Assembly Drawing _____
- Interface Control Drawing _____

10. Is there a design review requirement?

- Preliminary _____
- Critical _____
- Facility Review _____

11. What are the required construction materials?

- Aluminum
- Steel
- Stainless Steel
- Composite materials

12. Will the enclosure need any of the following specialized hardware / accessories?

- Blowers: Type _____ CFM _____
- Filters:
 - Type _____
 - EMI/RFI _____
 - Attenuation _____
 - Drip Proof _____
 - Dust _____
- Slides:
 - Quantity _____
 - Payload Weight for Each _____
 - Slide Travel Distance for Each _____
- Cable Retractors _____
- Cable Trays _____
- Shelves _____
- Gasketing:
 - EMI/RFI _____
 - Moisture _____