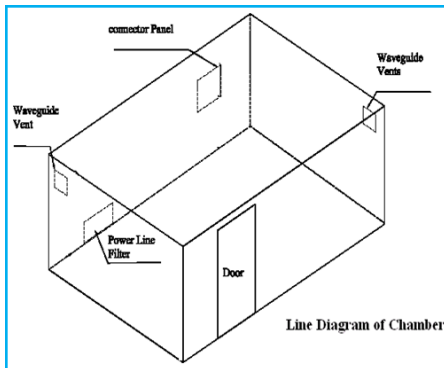


## FARADAY CAGE / SHIELDED CHAMBER



- ❖ A PAN type design for high performance shielded chamber, a Total Steel Structure (TSS), an improved design over conventional sandwich type wood core structure (WCS).
- ❖ Self supporting.
- ❖ Very easy to construct.
- ❖ Fitted with RF Gaskets.
- ❖ Not affected by water and moisture.
- ❖ Superior Attenuation with less weight.
- ❖ Cutting and bending by Laser / CNC machines
- ❖ Easy expandability and relocation using less parts.
- ❖ Radiography quality TIG welding of corners of panels.
- ❖ 100% testing of welding by Radiography Testing Method.
- ❖ TSS is very desirable in geographic regions with seismic problems
- ❖ Unique Flat Surface Inside/Outside: The walls and the roof construction by flat surface inside and the floor were constructed by flat outside, which is the most ideal.
- ❖ Shielding Effectiveness (SE): SE tested as per either of IEEE-STD-299, MIL-STD-285 or EN 50147-1.

| Frequency          | Field      | Minimum Shielding Effectiveness in dB |
|--------------------|------------|---------------------------------------|
| 10 KHz             | MAGNETIC   | 50 dB                                 |
| 100 KHz TO 1 MHz   | MAGNETIC   | 100 dB                                |
| 100 KHz TO 10 MHz  | ELECTRIC   | 100 dB                                |
| 100 KHz TO 500 MHz | PLANE WAVE | 100 dB                                |
| 1 GHz TO 40 GHz    | MICROWAVE  | 100 dB                                |

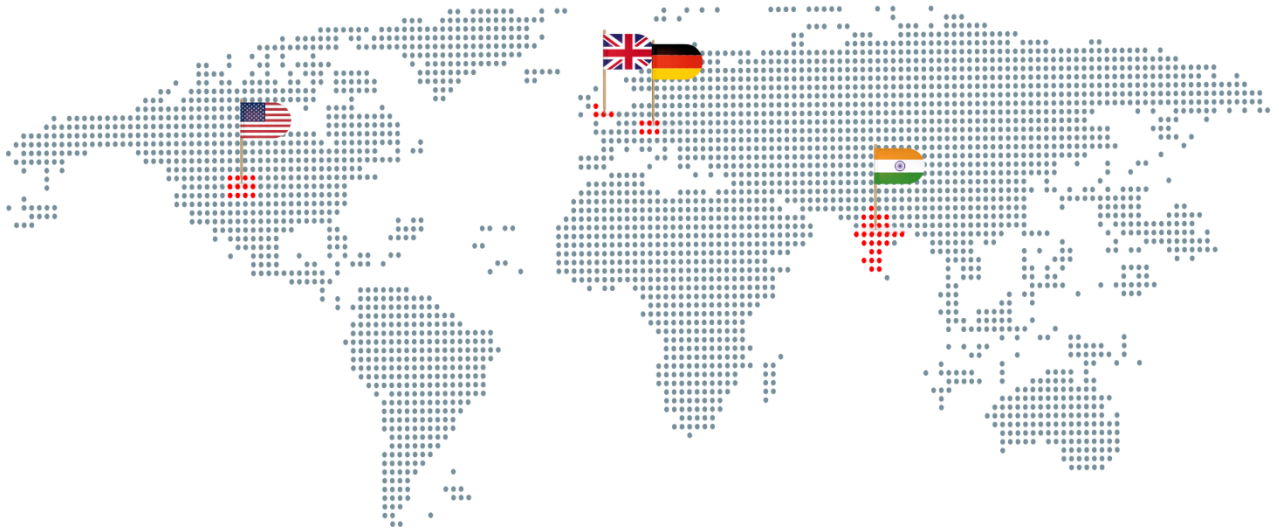
## Shielded Doors:

- ❖ 2-point cam locking system.
  - ❖ Doors are designed to open approx.180°.
  - ❖ Wire Mesh gasket used between the door frame and the basic Pan structure.
  - ❖ Door leaf hanging on the frame by the two hinges mounted in the door frame.
  - ❖ Three rows of Copper Beryllium fingers in two pockets are provided for ensuring SE.
  - ❖ Ranging from single leaf to big sliding door to accommodate even EMI/EMC testing of air craft.
- 
- ❖ **Air vents** generally designed with cut-off ware guide characteristics of honey-comb structure.
  - ❖ **Access Panel:** Providing access to outer and inner signal, connectors with matched terminations on both ends.
  - ❖ **Signal Filters:** Power line filters both for single/three phase power supplies of different current ratings, frequencies including DC filters and filters for
    - ❖ Telephone line filters.
    - ❖ Optical waveguide feed through
    - ❖ Isolation transformers, etc.
  - ❖ **Single Point earthing to Earthing Pits:** Pipe-in-pipe type electrolytic type maintenance free earthing, Shielded structure, isolation transformers are connected to earth pits.

## Area of Applications:

- ❖ Noise Security.
- ❖ TEMPEST Security Areas.
- ❖ EMI/RFI testing and research.
- ❖ High security communications.
- ❖ Securing data processing centers.
- ❖ Sophisticated electronic equipment manufacturing test, calibration & repair rooms.
- ❖ Areas of high security, such as government or commercial communication centers.

# GLOBAL PRESENCE



**LASER CUTTING** RF & Microwave  
**MARKING** Medical Devices  
**WELDING** Hi-Tech Software  
 Diamond Processing  
 Renewable Energy  
 Cleaning  
 Scribing / Dicing  
 Automations

**DEFENCE & AEROSPACE**  
**MICRO MACHINING**

## SLTL'S STRENGTH

|   |   |   |   |
|---|---|---|---|
| <p>Experience</p> <p><b>34+</b> Years</p> | <p>Mfg. Plants</p> <p><b>6</b> Laying Over</p> <p><b>54000</b> Sq. mtr.</p> | <p><b>10%</b></p> <p>Yearly R&amp;D</p> | <p>Exports</p> <p><b>40+</b></p> <p>Countries</p> |
| <p><b>15000+</b></p> <p>Systems</p>       | <p><b>ISO</b></p> <p>9001-2015</p>  | <p><b>26+</b></p> <p>Patents</p>        | <p><b>29+</b></p> <p>Awards</p>                   |



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