



Elite Electronic Engineering, Inc.  
1516 Centre Circle  
Downers Grove, IL 60515  
630-495-9770  
www.elitetest.com

**NOTE: FOR ELITE CUSTOMER USE ONLY.** Information listed here is subject to revision without notice. Actual chamber performance will depend on test item and specification requirements. Contact Elite for current test equipment information and test application assistance.

## EMC CHAMBER DESCRIPTION

## TEST SUITE 12

### Test Room ID: R12U

<b>Description:</b>	Universal Test Enclosure, Anechoic Absorber Lined
<b>Primary Testing Uses:</b>	MIL-STD, CISPR, CE MARK
<b>Dimensions:</b>	Outside 5.8m x 6.1m x 4.2m (19ft x 20ft x 14ft) Inside/Usable 5.18m x 5.48m x 3.96m (17ft x 18ft x 13ft) (See Figure – 5 below)
<b>Construction:</b>	Galvanized Steel Ferrite tiles placed on all four walls and the ceiling. RF absorber placed on all four walls and the ceiling.
<b>Ground Plane Dimensions:</b>	4.88m x 1.83m x .78mm (16ft x 6ft x 0.031in) (See Figure – 5 below) Removable Ground Plane
<b>Ground Plane Bonding:</b>	Brass Brackets
<b>Distance from Waveguide to Front of Ground Plane:</b>	2.16m (85in)
<b>Room Filters:</b>	2 - 30 Amp DC filters 3 - 30 Amp DC/AC filters 2 - 50 Amp DC filters 115VAC 400Hz 3Phase 30 Amp 115VAC 60Hz 3Phase 50 Amp 115VAC 60Hz 1Phase 20 Amp outlets <b>Note: Other power arrangements are available upon request.</b>



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**TEST SUITE 12**

**Test Room ID: R12P**

<b>Description:</b>	Shielded Monitor Enclosure
<b>Dimensions:</b>	4.88m x 2.44m x 3.05m (16ft x 8ft x 10ft) (see Figure – 5 below)
<b>Construction:</b>	Galvanized Steel
<b>Ground Plane Dimensions:</b>	(2) 2.44m x .76m x .78mm (8ft. x 2.5ft x 0.031in) (See Figure – 5 below)
<b>Ground Plane Bonding:</b>	Copper Straps
<b>Distance from Waveguide to Front of Ground Plane:</b>	1.06m (42in)
<b>Room Filters:</b>	2 each 30 Amp DC filters 3 each 30 Amp DC/AC filters 115VAC 60Hz 1Phase 20 Amp outlets <b>Note: Other power arrangements are available upon request.</b>
<b>General Cabling Considerations:</b>	<b>Mil Std Tests:</b> <ul style="list-style-type: none"><li>• Power and interconnect leads need to be 2 meters in length within 10cm of the front of the ground plane. (Ref 461F section 4.3.8.6.1 &amp; 4.3.8.6.2)</li></ul> <b>DO-160 Tests:</b> <ul style="list-style-type: none"><li>• Power leads need to be 1 meter in length within 10 cm of the front of the ground plane.</li><li>• Interconnect leads need to have 3.3 meters exposed and at least 1 meter within 10 cm of the front of the ground plane. (Ref DO-160G Section 20.3)</li></ul> <b>Note: The distance from the front edge of the monitor room ground plane and the front of the test room ground plane is a full 10 feet 10 inches. Plan cable lengths accordingly.</b>



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**Figure – 1: Room R12U (Test Room)**



**Figure – 2: Room R11P (Monitor Room)**



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**Figure – 3: Room R12P (Monitor Room) Lower waveguide location (View from inside chamber)**

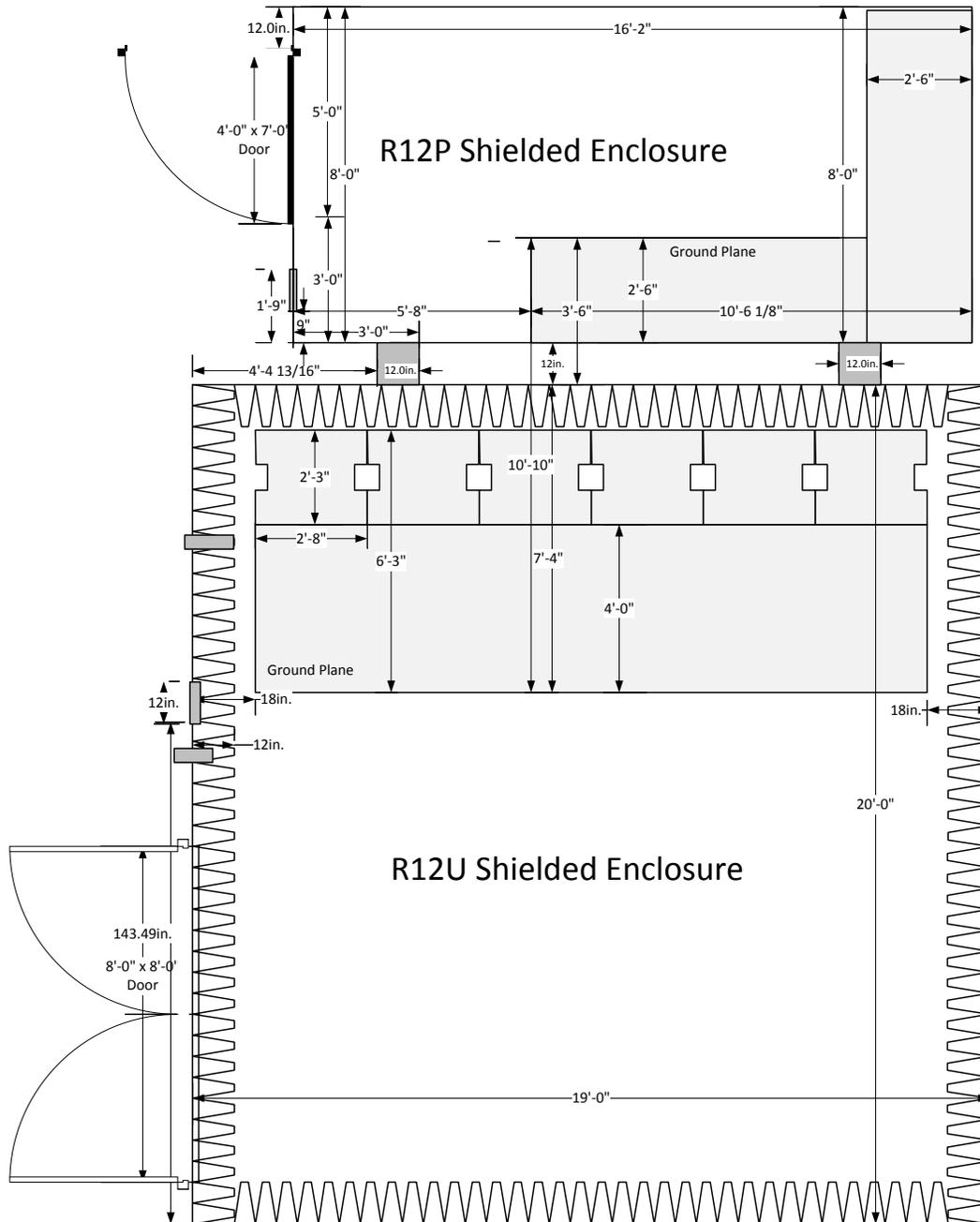


**Figure – 4: Room R12P (Monitor Room) Lower Waveguide opening (View from inside chamber)**



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**Figure – 5: Rooms R12U and R12P with Dimensions**

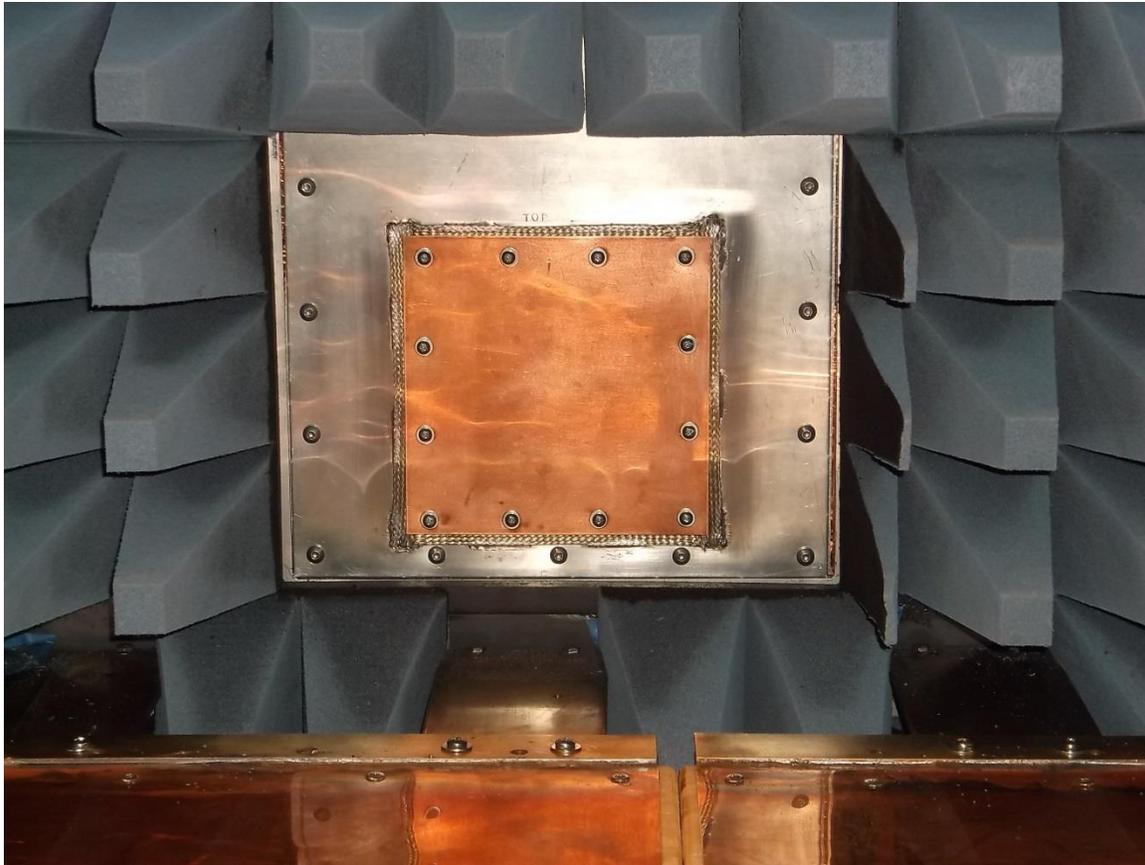


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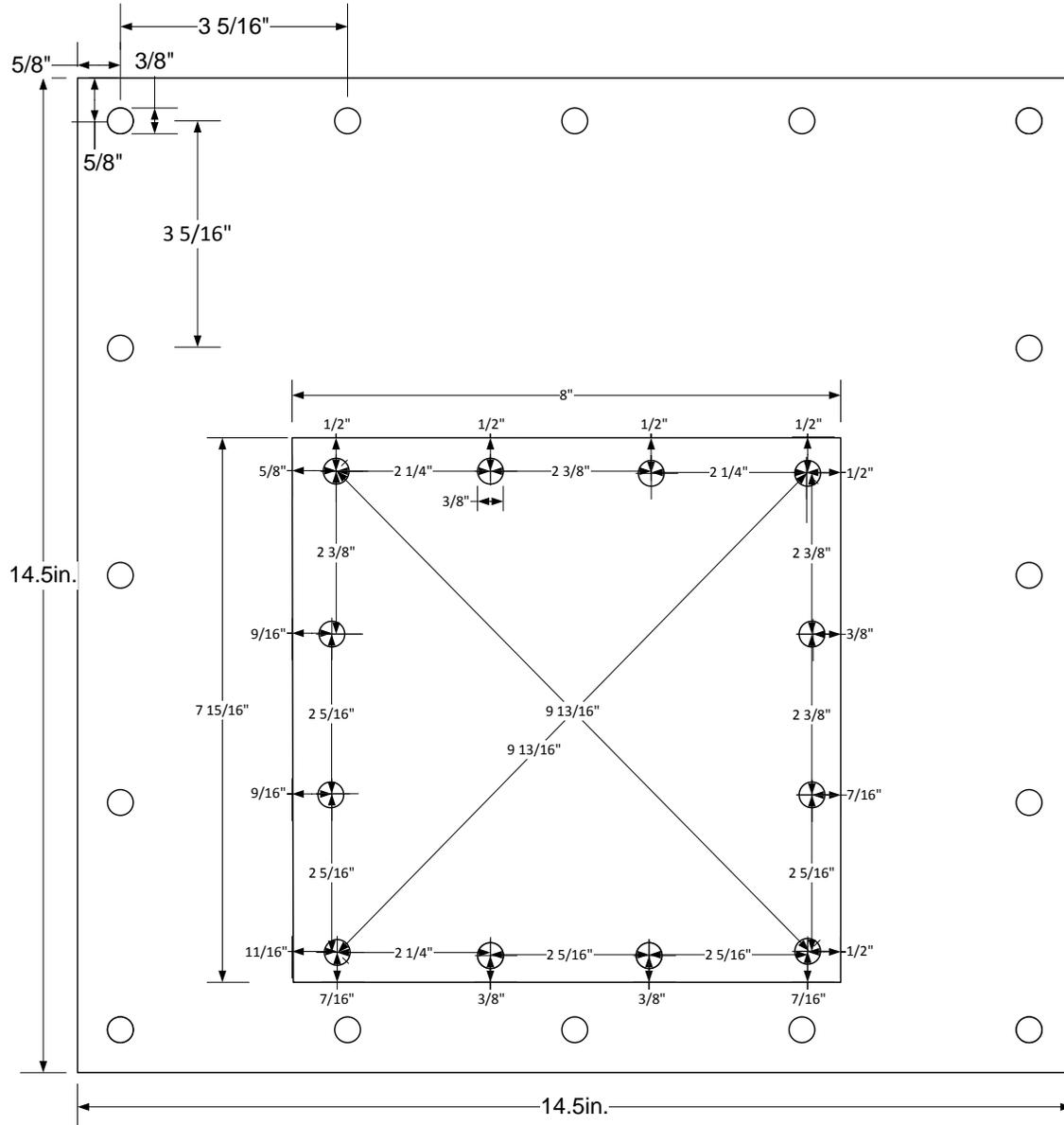


**Figure – 6: Room R12U Waveguide Mount (Test Room)**



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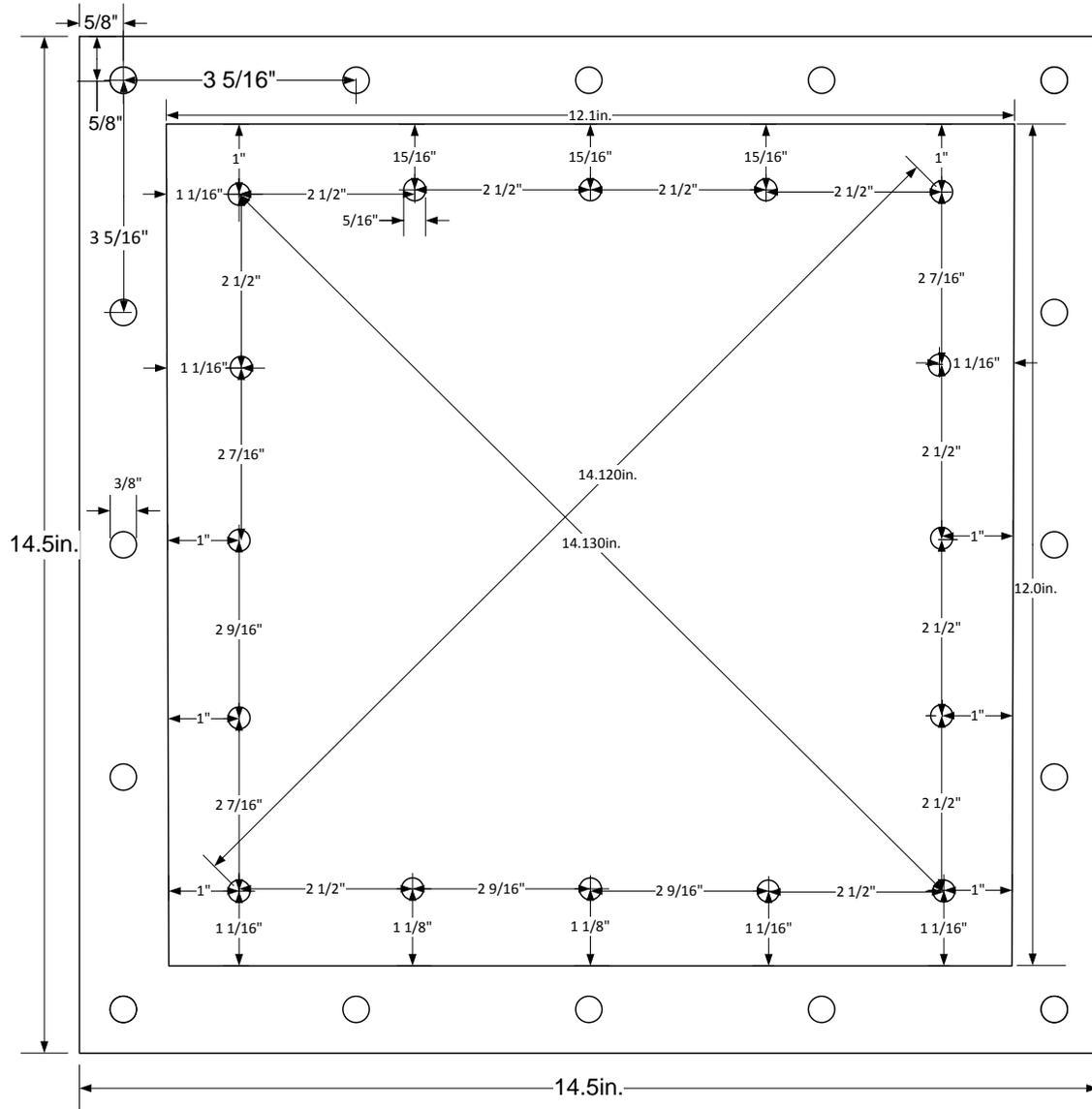


**Figure – 7: Room R12U (Test Room) Large Waveguide Plate with 8 inch Copper Plate with Dimensions**



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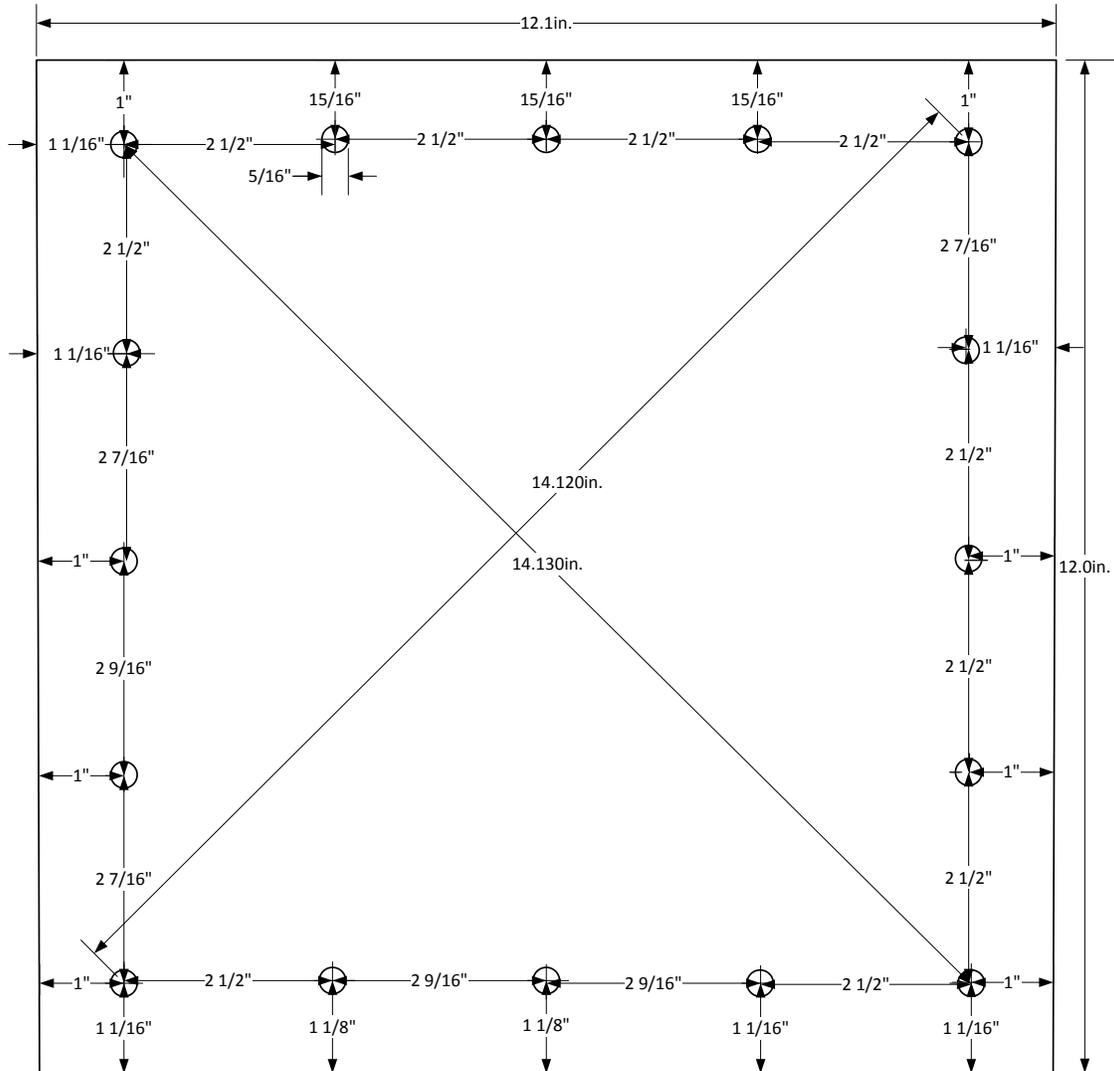
**Figure – 8: Room R12U (Test Room) Large Waveguide Plate with 12 inch Copper Plate with Dimensions**





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**Figure – 10: Room R12U (Test Room) 12 Inch Copper Plate w/ Dimensions**



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**Figure – 11: Room 12U Waveguide Opening  
(Below Ground Plane Test Room)**