



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.

EMI CHAMBER DESCRIPTION

TEST SUITE 19

Test Room ID: R19M

Description:	SEMI-ANECHOEIC SHIELDED TEST ENCLOSURE
Primary Testing Uses:	MIL-STD, DO-160,
Dimensions:	Outside: 7.0m x 7.3m x 4.2m (23ft. x 24ft. x 14ft.) Inside: 5.8m x 6.1m x 3.7m (19ft. x 20ft. x 12ft.) [see Figure - 4 below]
Construction:	2 Layers 32oz. Copper 2 Layers Silicon Steel RF Absorbers [placed above, behind and on both side of EUT, and behind the radiating or receive antenna] Continuous Solder in Ground Plane Bonding
Ground Plane Dimensions:	4.90m x 1.20m x 0.78mm (16ft. x 4ft. x 0.031in.) [see Figure - 3 below]
Distance from Cable Tunnel to Front of Ground Plane:	0.489m (19.25in.)
Room Filters:	(4) 60A DC Filtered Lines (4) 30A DC Filtered Lines
Power Availability:	208VAC, 400Hz, 3Phase, 30A Filtered AC Power 230VAC, 60Hz, 3Phase, 60A Filtered AC Power 120VAC, 60Hz, 1Phase, 30A Filtered AC Power 120VAC, 60Hz, 1Phase, 15A Outlets Note: Other power arrangements are available upon request.



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Monitor Room ID: R19P

Description:	SEMI-ANECHOIC SHIELDED MONITOR ENCLOSURE
Dimensions:	4.6m x 3.9m x 2.7m (15ft. x 13ft. x 9ft.) [see Figure - 3 below]
Construction:	2 Layers 32oz. Copper 2 Layers Steel RF Absorbers [placed above, behind and on both side of EUT, and behind the radiating or receive antenna] Continuous Solder in Ground Plane Bonding
Ground Plane Dimensions:	3.20m x 0.76m x 0.78mm (10.5ft. x 2.5ft. x 0.031in.) [see Figure - 8 below]
Distance from Cable Tunnel to Front of Ground Plane:	76.2cm (30in)
Room Filters:	(2)20A DC Filtered Lines
Power Availability:	208VAC 400Hz 3Phase 30 Amp 240VAC 60Hz 3Phase 20 Amp 120VAC 60Hz 1Phase 30 Amp 115VAC 60Hz 1Phase 15 Amp outlets Note: Other power arrangements are available upon request.
General Cabling Considerations:	Please note that the distance from the front edge of the monitor room table and the test room ground plane is <u>1 foot</u>. Plan cable lengths accordingly. Mil Std Tests: Power and interconnect leads need to be 2 meters in length within 10cm of the front of the ground plane. (Ref 461E section 4.3.8.6.1 & 4.3.8.6.2) DO-160 Tests: Power leads need to be 1 meter in length within 10 cm of the front of the ground plane. 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-160D Section 20.3)



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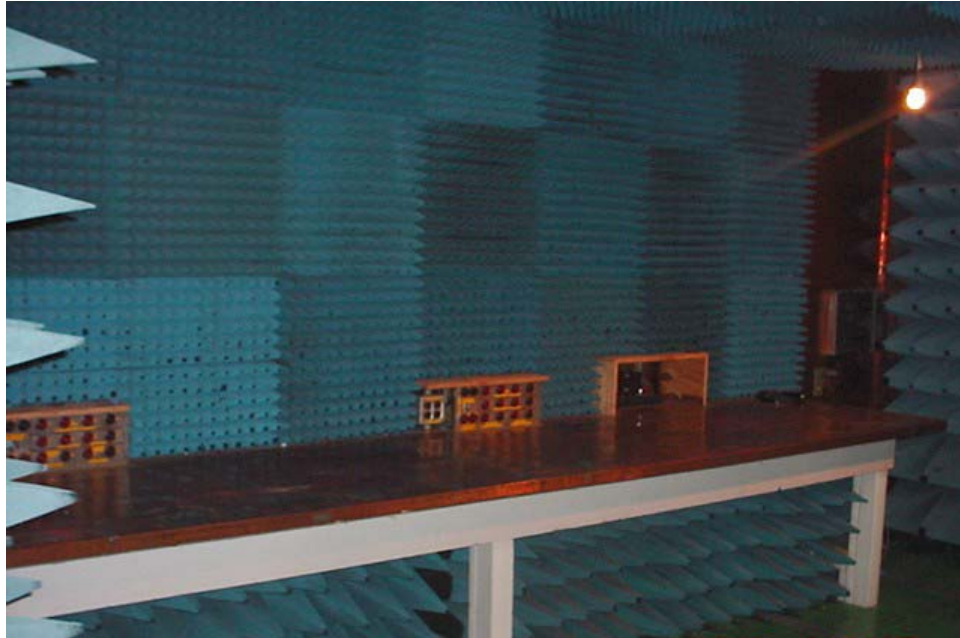


Figure - 1: Room 19M (Test Room)



Figure - 2: Room 19P (Monitor Room)



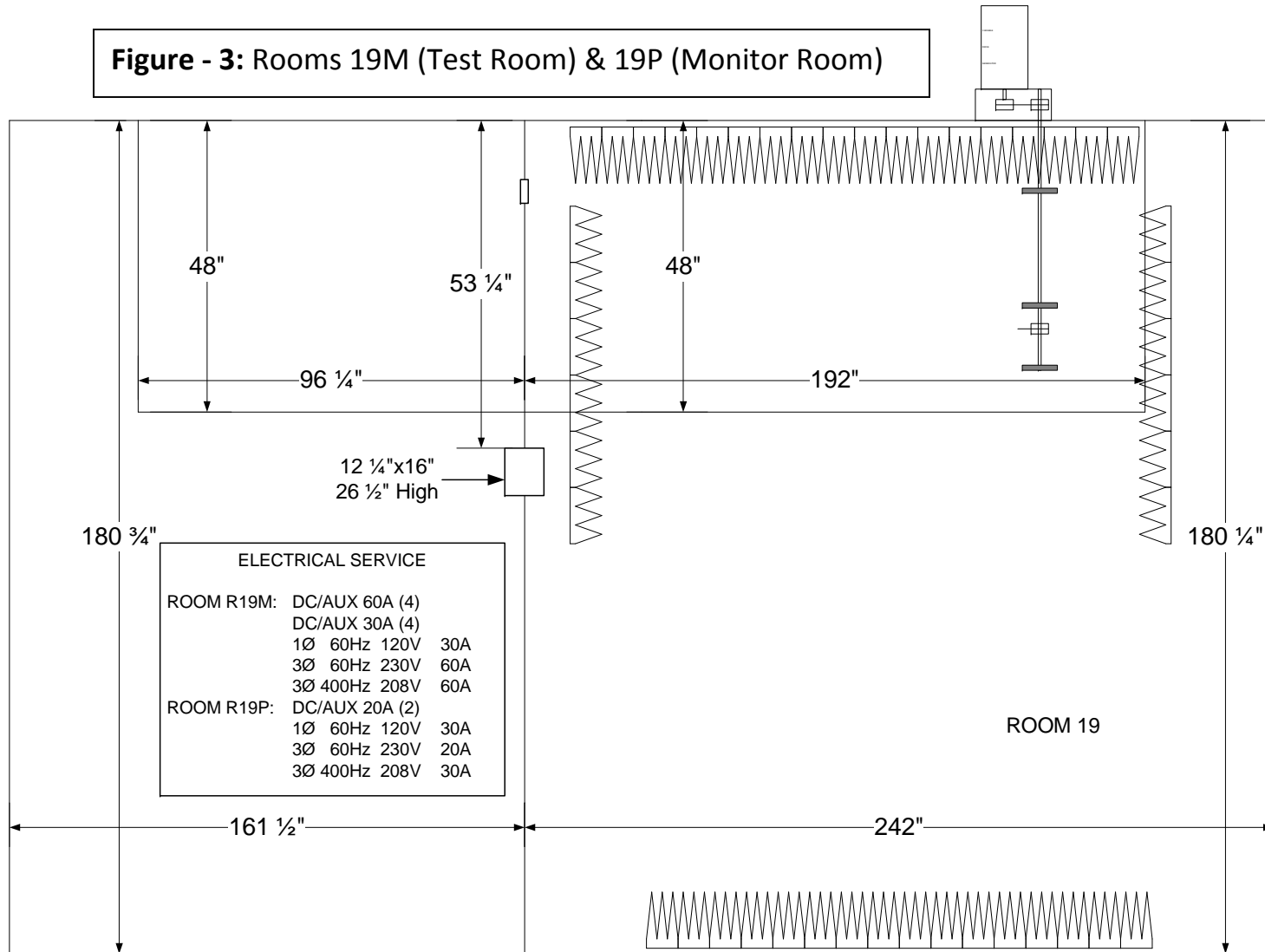
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Figure - 3: Rooms 19M (Test Room) & 19P (Monitor Room)





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Figure - 4: Room 19M Common Wall Openings

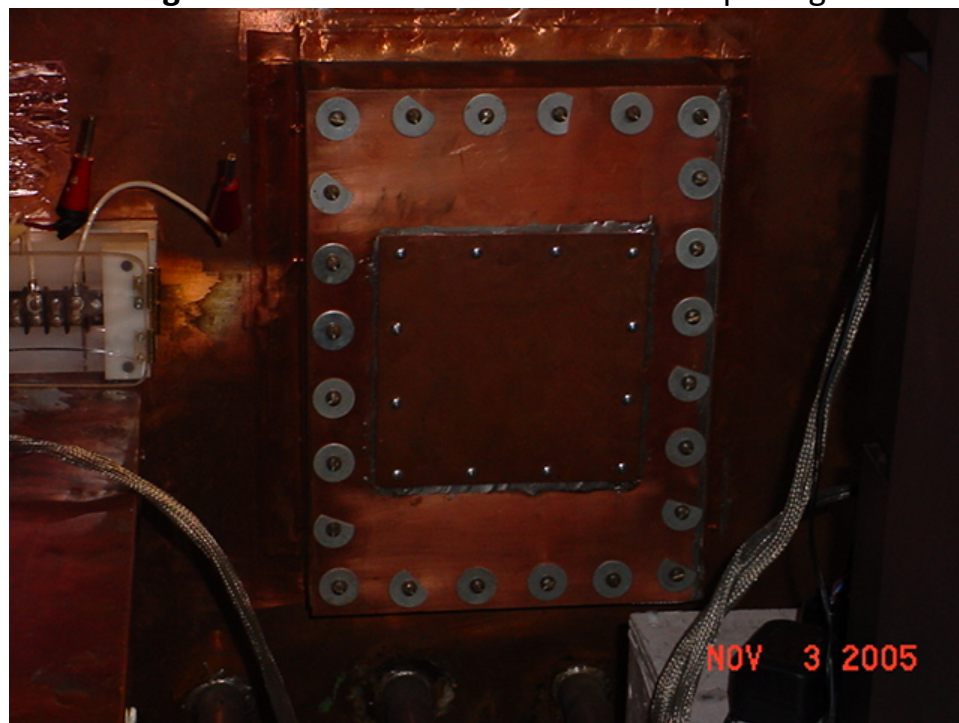


Figure - 5: Room 19P Waveguide Opening



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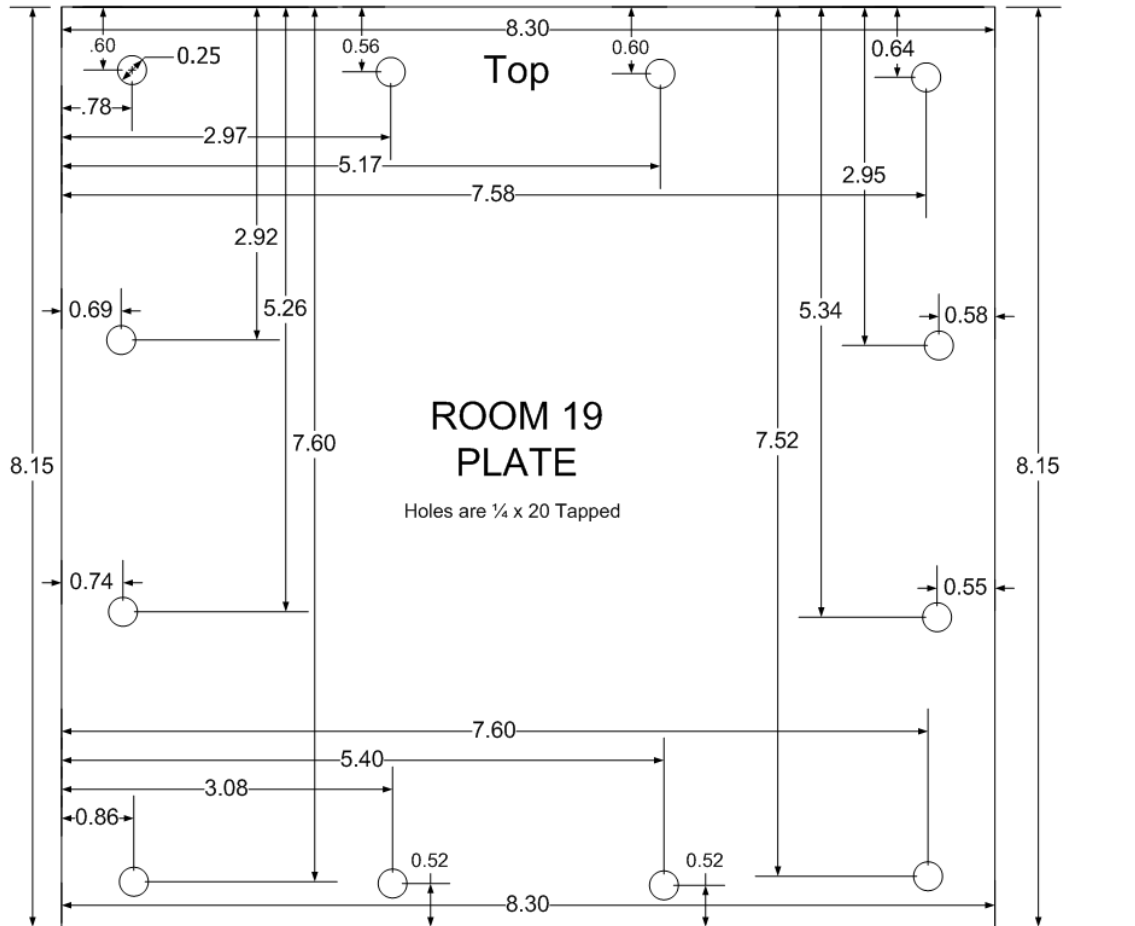


Figure - 6: Room 19P (Test Room) Small Waveguide Plate w/ Dimensions



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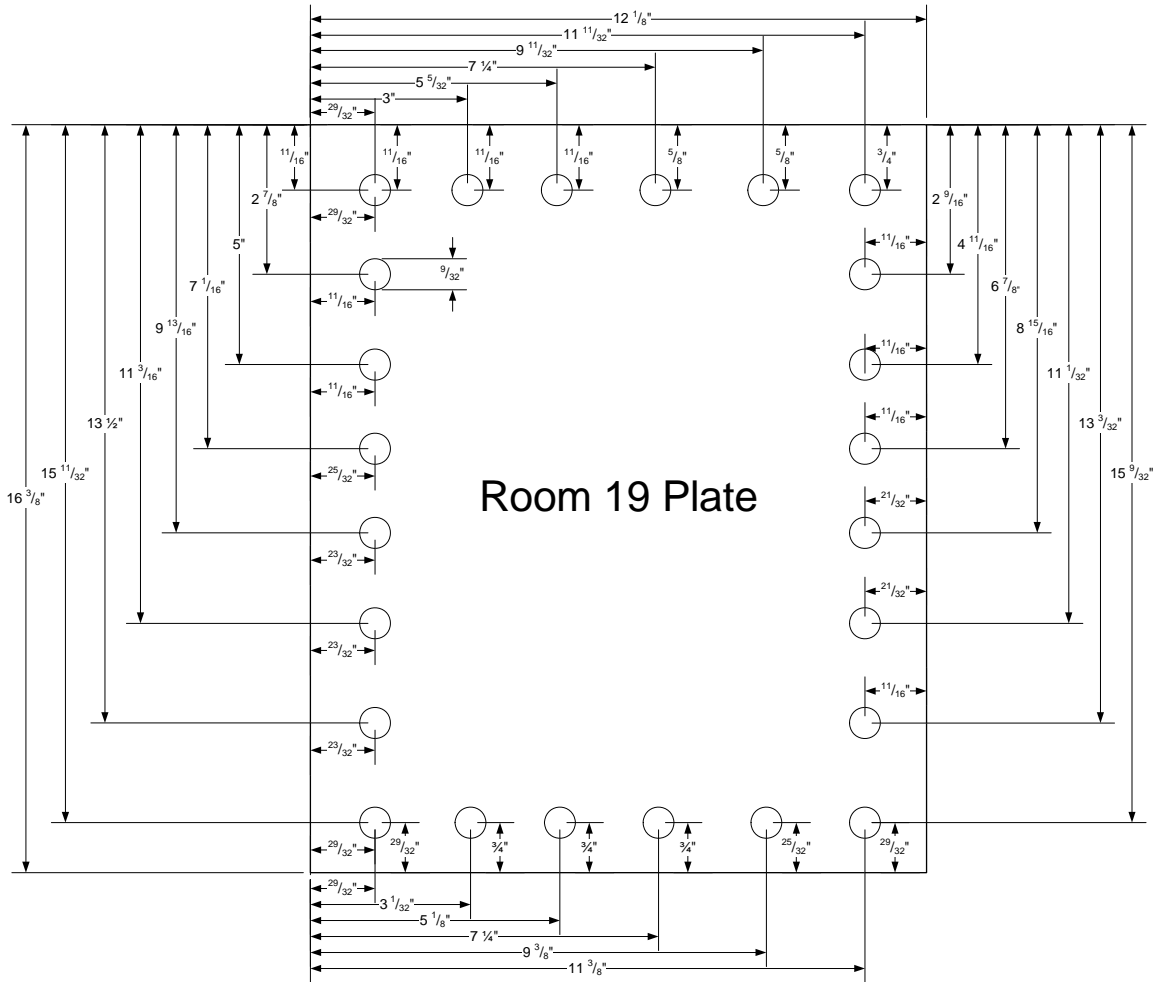


Figure - 7: Room 19P (Test Room) Large Waveguide Plate w/ Dimensions