



SPECIFICATIONS

SHIELDING REQUIREMENTS:

- BACK WALL 3/8" THK LEAD
- SIDE WALLS 1/4" THK LEAD
- ROOF 1/4" THK LEAD

CONSTRUCTION: MODULAR

- STRUCTURE: SELF-SUPPORTED
- ROOF RATED: 40 LBS LIVE WEIGHT/SQ FT
- 100 LBS DEAD WEIGHT/SQ FT

OVERALL DIMS:

- 4.24M WIDE X 6.04M LONG X 3.37M HIGH (13.92' x 19.82' x 11.07')
- CLEAR HEIGHT INSIDE: 3.09M (10')
- DOOR OPENING: 2.49M HIGH X 2.00M WIDE (8' X 6.6')

SLIDING DOORS:

- THREE MANUAL, FIXED BY LATCH
- ONE PNEUMATIC WITH MANUAL OVERRIDE

STANDARD SIDE PANEL: 1M WIDE X 3.3M HIGH (3.3'X11')

- SANDWICH CONSTRUCTION: STEEL 3mm (1/8") (11Ga.) - LEAD 6mm (1/4") - STEEL 6mm (1/4")
- STRUCTURE: 3" X 3" X 1/4" STEEL ANGLE, ALL AROUND
- WEIGHT: 1232 LB

STANDARD BACK PANEL: 1M WIDE X 3.3M HIGH (3.3'X11')

- SANDWICH CONSTRUCTION: STEEL 3mm (1/8") (11Ga.) - LEAD 10mm (3/8") - STEEL 6mm (1/4")
- STRUCTURE: 3" X 3" X 1/4" STEEL ANGLE, ALL AROUND
- WEIGHT: 1500 LB

STANDARD ROOF PANEL: 1M WIDE X 4.20M LONG (3.3'X13.79')

- SANDWICH CONSTRUCTION: STEEL 3mm (1/8") (11Ga.) - LEAD 6mm (1/4") - STEEL 6mm (1/4")
- STRUCTURE: MC 6 X 16.3 STEEL CHANNEL, ALL AROUND
- WEIGHT: 1180 LB

STANDARD DOOR PANEL: 1M WIDE X 2.5M HIGH (3.3'X8')

- SANDWICH CONSTRUCTION: STEEL 3mm (1/8") (11Ga.) - LEAD 6mm (1/4") - STEEL 6mm (1/4")
- WEIGHT: 922 LB

LABYRINTH PANELS: UTILITIES, CABLES, VENTILATION

- UTILITIES: CHILLED WATER 5° - 0.8°C (41° - 1.5°F)
- COMPRESSED AIR 90psi
- ELECTRICAL POWER 30kVA 120/208V

WORK STATION CRANE WITH MANUAL HOIST:

- SPAN 3.35M (11') x RUNWAY LENGTH 5.18M (17') x CLEAR HEIGHT 3.00M (10')
- CAPACITY: 1000kg (1 TON)

VENTILATION: TWO FANS - 545 CFM, 5.2 SONES @ FREE AIR

ILLUMINATION: FLUORESCENT - OFFICE RATED: 100 FOOT CANDLE.

NOTES:

1- THE HUTCH MANUFACTURER SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE HUTCH, AND SHALL CERTIFY THAT THE STRUCTURE WAS REVIEWED BY A LICENSED STRUCTURAL ENGINEER.

STRUCTURES AND THEIR ELEMENTS SHALL BE BUILT FOLLOWING DOE 6430 AS REFERRED TO IN TECHNICAL SPECS. DESIGN LOADS SHALL INCLUDE LOADS THAT CAN OCCUR DURING CONSTRUCTION. DEAD LOADS SHALL INCLUDE THE USE OF THE INTERIOR UNISTRUT FOR SHELVES ONE FOOT WIDE SUPPORTING LOADS OF 200 LBS.

2- LEAD THICKNESS IS SPECIFIED BY ARGONNE. THE MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING A RADIATION LEAK PROOF HUTCH.

LEAD LINED PANELS SHALL BE CONSTRUCTED FROM SINGLE UNPIERCED SHEET, FREE OF OXIDE INCLUSIONS, FISSURES, VOIDS AND ALL OTHER DETRIMENTAL DEFECTS. MATERIAL SHALL BE LEAD GRADE 'C' TO COMPLY WITH FEDERAL SPECIFICATION QQ-L-201. HUTCH SHALL MEET ALL APPLICABLE RADIATION GUIDE LINES REFERRED TO IN TECHNICAL SPECS.

		ARGONNE NATIONAL LABORATORY ADVANCED PHOTON SOURCE H1 APS MBES 11-ID-D MONOCHROMATIC BEAM EXPERIMENTAL STATION ASSY.	
PROJECT NO: A2259300 DATE: 4/18/09 DRAWN BY: T. SANCHEZ CHECKED BY: M. ZERVA DATE: 5/21/09	SCALE: 1/16=1 SHEET: 2/1	TITLE: (PERSPECTIVE & SPECS.)	P41050903-760000-00