

SPECIFICATIONS

SHIELDING REQUIREMENTS:

- BACK WALL 2"THK LEAD
- SIDE WALL 1"THK LEAD
- ROOF 1/2"THK LEAD

CONSTRUCTION: MODULAR

STRUCTURE: SELF-SUPPORTED

- COMMERCIAL RATED: 40LBS LIVE WEIGHT
- 100 LBS DEAD WEIGHT

OVERALL DIMS: 1.75M Ave WIDE X 8M LONG X 3.3M HIGH [5.8' X 26' X 11']

- CLEAR HEIGHT INSIDE: 3M [10']
- DOOR OPENING: 2.4M HIGH X 1M WIDE [8' X 3.3']

SLIDING DOORS: ONE MANUAL, FIXED BY LATCH

- TWO PNEUMATIC WITH MANUAL OVERRIDE

STANDARD SIDE PANEL: 1M WIDE X 3.3M HIGH [3.3'X11']

- CONSTRUCTION: SANDWICH : STEEL 3mm [1/8" (11Ga)] - LEAD 25mm [1"]- STEEL 6mm[1/4"]
- STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND
- WEIGHT: 1500LB

STANDARD BACK PANEL: 1M WIDE X 3.3M HIGH [3.3'X11']

- CONSTRUCTION: SANDWICH : STEEL 3mm [1/8" (11Ga)] - LEAD 50mm [2"]- STEEL 6mm[1/4"]
- STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND
- WEIGHT: 3000LB

STANDARD ROOF PANEL: 1M WIDE X 1.75M LONG [3.3'X5.8']

- CONSTRUCTION: SANDWICH : STEEL 3mm [1/8" (11Ga)] - LEAD 13mm [1/2"]- STEEL 6mm[1/4"]
- STRUCTURE: MC 6 X 16.3 STEEL CHANNEL, ALL AROUND
- WEIGHT: 780LB

STANDARD DOOR PANEL: 1M WIDE X 2.5M HIGH [3.3'X8']

- CONSTRUCTION: SANDWICH : STEEL 3mm [1/8" (11Ga)] - LEAD 25mm [1"]- STEEL 6mm[1/4"]
- WEIGHT: 1900LB

LABYRINTH PENETRATIONS: UTILITIES, MOTORS, VENTILATION, OZONE

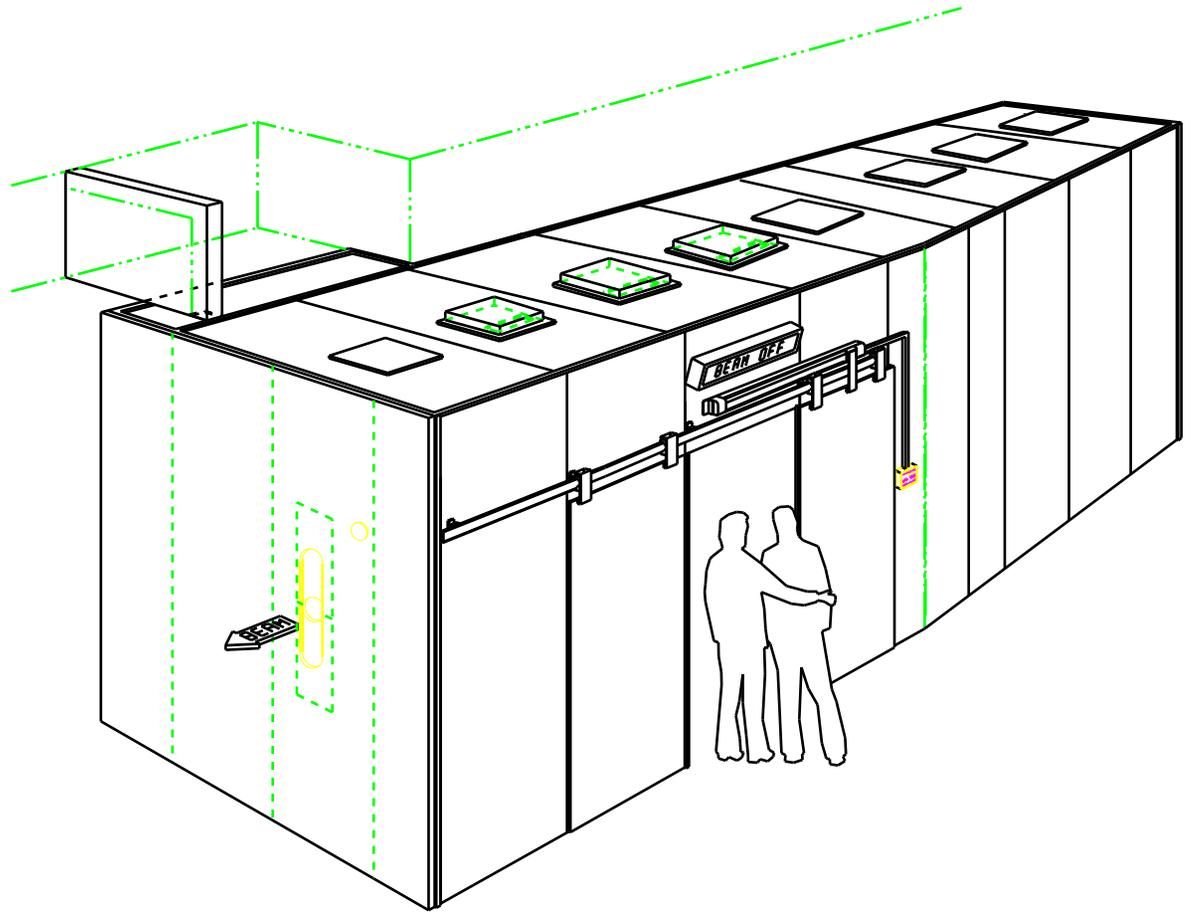
UTILITY LABYRINTH: CHILLED WATER 5 0.8 C [41 1.5 F]

- DI WATER
- COMPRESSED AIR 103 5psi
- ELECTRICAL POWER 30kVA 120/208V

WORK STATION CRANE WITH MANUAL HOIST

- SPAN 1.21M [4.00'] X RUNWAY LENGTH 8.00M [26.5'] X CLEAR HEIGHT 3.00M [10']
- CAPACITY: 1000Kg [1 TON]

ILLUMINATION: OFFICE RATED - 100 FOOT CANDLE.



NOTES:

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

STRUCTURES AND THEIR ELEMENTS SHALL BE BUILD FOLLOWING 'DOE 6430 AS REFERED IN TECHNICAL SPECS. DESIGN LOADS SHALL INCLUDE LOAD 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 PROVED 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 -QQL201. HUTCH SHALL MEET ALL APPLICABLE RADIATION GUIDE LINES: REFERED IN TECHNICAL SPECS..

REV	DESCRIPTION	DATE	BY	APP'D	DATE	BY	APP'D
1	ISSUED FOR CONSTRUCTION	02/28/03	D. SHU		02/28/03	T. KUZAY	
2	REVISED TO ADD MATERIALS LIST	03/29/04	SANCHEZCORCORAN		03/29/04		

ARGONNE NATIONAL LABORATORY THE UNIVERSITY OF CHICAGO		H1 APS 110 BEAMLINE WHITE BEAM HUTCH ASSY (PERSPECTIVE & SPECS.)
PROJECT: A15006 TITLE: H1 APS 110 BEAMLINE WHITE BEAM HUTCH ASSY (PERSPECTIVE & SPECS.)	DRAWN BY: SANCHEZCORCORAN CHECKED BY: SANCHEZCORCORAN DATE: 02/28/03	SCALE: 1/16"=1' SHEET: 28 TOTAL SHEETS: 28