

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/SQ FT
- 100 LBS DEAD WEIGHT/SQ FT

OVERALL DIMS: 1.75M Ave. WIDE X 8.25M LONG X 3.3M HIGH [5.8' X 27' 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
- ONE 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: 2840LB

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: 5680LB

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: 1150LB

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, CABLES, VENTILATION, OZONE

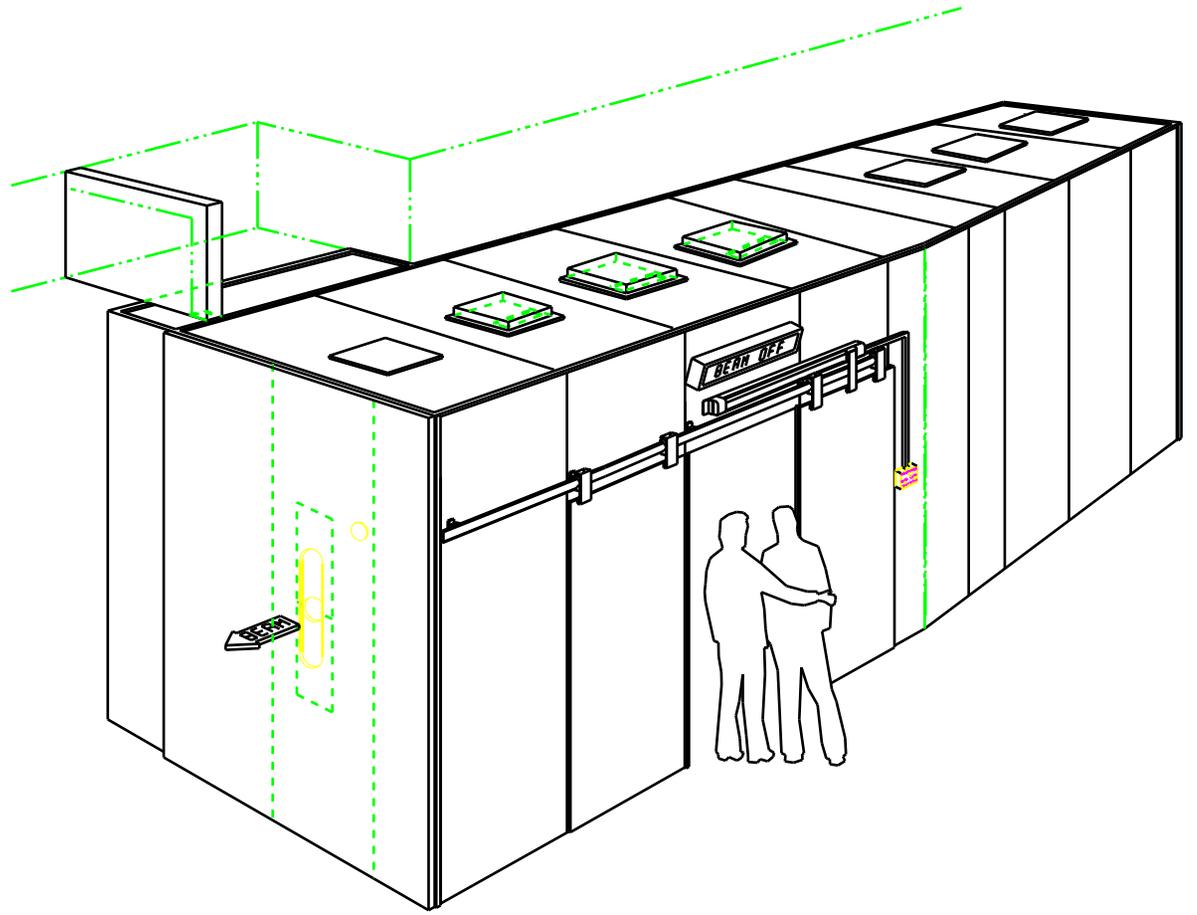
UTILITIES: CHILLED WATER 5 0.8 C 1.5 1.5 1.5

- 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 8.25M [27'] X CLEAR HEIGHT 3.00M [10']
- CAPACITY: 1000Kg [1 TON]

ILLUMINATION: FLOURESCENT-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.

REV	DESCRIPTION	DATE	BY	APP'D	DATE	BY	APP'D
01	UPDATE FLOOR AREA & NUMBERING ORDERS	12/11/2020	W. J. HARRIS		12/11/2020	W. J. HARRIS	

NO.	QUANTITY	DESCRIPTION	UNIT	DATE	BY
1	1	LEAD LINED DOOR	EA	3/29/04	T. SANCHEZ
2	1	LEAD LINED SIDE PANEL	EA	3/29/04	T. SANCHEZ
3	1	LEAD LINED BACK PANEL	EA	3/29/04	T. SANCHEZ
4	1	LEAD LINED ROOF PANEL	EA	3/29/04	T. SANCHEZ
5	1	LEAD LINED DOOR PANEL	EA	3/29/04	T. SANCHEZ
6	1	LEAD LINED CONTROL PANEL	EA	3/29/04	T. SANCHEZ
7	1	LEAD LINED CRANE	EA	3/29/04	T. SANCHEZ
8	1	LEAD LINED LIGHTING	EA	3/29/04	T. SANCHEZ
9	1	LEAD LINED VENTILATION	EA	3/29/04	T. SANCHEZ
10	1	LEAD LINED OZONE PENETRATION	EA	3/29/04	T. SANCHEZ

NO.	DATE	BY	APP'D
1	3/29/04	T. SANCHEZ	
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5	3/29/04	T. SANCHEZ	
6	3/29/04	T. SANCHEZ	
7	3/29/04	T. SANCHEZ	
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10	3/29/04	T. SANCHEZ	

ARGONNE NATIONAL LABORATORY
 ADVANCED PHOTON SOURCE
 H1 APS WBES 1-D-B
 WHITE BEAM EXPERIMENTAL
 STATION ASSEMBLY
 PERSPECTIVE & SPECIFICATIONS