

SPECIFICATIONS

SHIELDING REQUIREMENTS:

EXIT PANEL 1/2" THK LEAD (1" LEAD TOTAL)

SIDE WALLS 3/8" THK LEAD

ROOF 1/4" THK LEAD

CONSTRUCTION: MODULAR

STRUCTURE: SELF-SUPPORTED

COMMERCIAL RATED: 40 LBS LIVE WEIGHT/SQ FT

100 LBS DEAD WEIGHT/SQ FT

OVERALL DIMS:

1.75M Avg WIDTH X 8.75M LONG X 3.3M HIGH [5.75' X 28.75' X 11']

CLEAR HEIGHT INSIDE: 3.0M [10']

DOOR OPENING: 2.4M HIGH X 1.0M WIDE [8' X 6.3']

SLIDING DOORS: ONE MANUAL, FIXED BY LATCH

TWO PNEUMATIC WITH MANUAL OVERRIDE

STANDARD SIDE PANEL: 1.0M WIDE X 3.3M HIGH [3.3' X 11']

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: 1500LB

STANDARD BACK PANEL: 1M WIDE X 3.3M HIGH [3.3' X 11']

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: 1500LB

STANDARD ROOF PANEL: 1.0M WIDE X 1.75M LONG [3.3' X 5.8']

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: 863LB

STANDARD DOOR PANEL: 1.0M WIDE X 2.5M HIGH [3.3' X 8']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 10mm [3/8"] - STEEL 6mm [1/4"]

STRUCTURE: 2" X 2" X 1/8" STEEL ANGLE, ALL AROUND

WEIGHT: 886LB

LABYRINTH PANELS: UTILITIES, CABLES, VENTILATION, OZONE

UTILITIES: CHILLED WATER 5°-0.8°C [41°-1.5°F]

DI WATER

COMPRESSED AIR 90psi

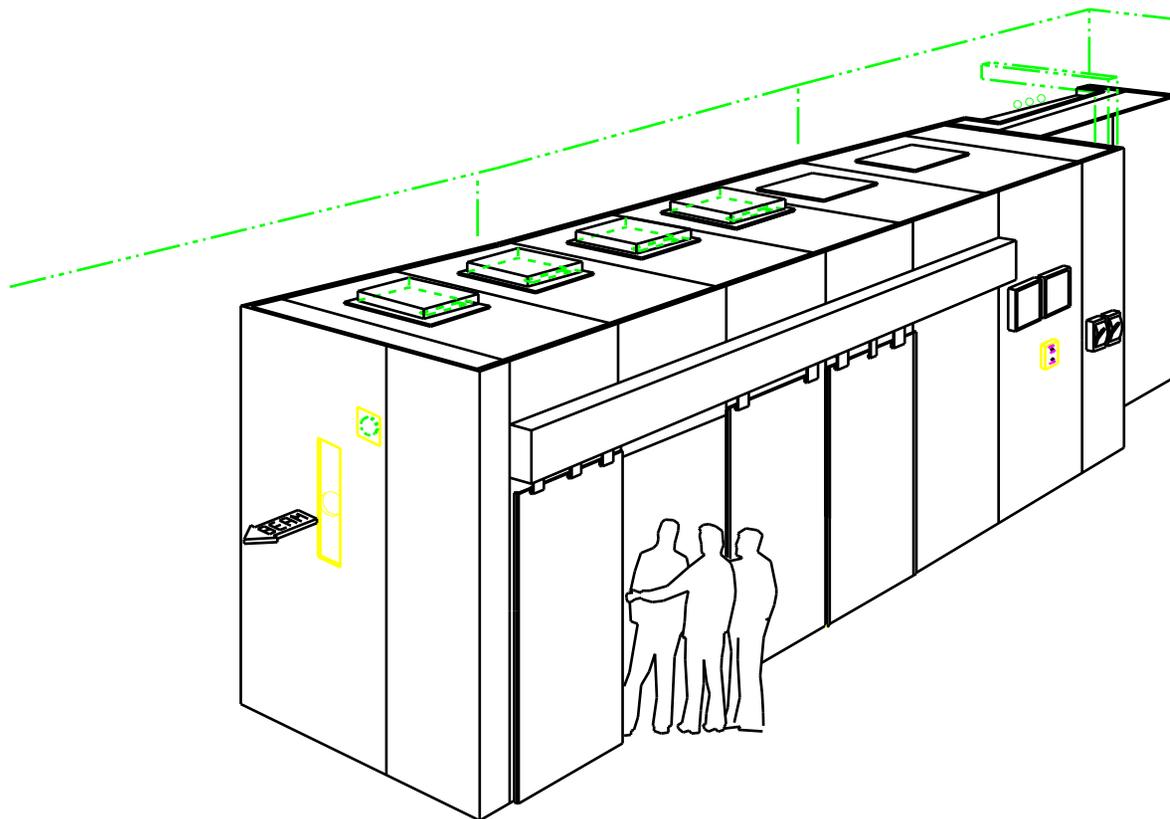
ELECTRICAL POWER 30kVA 120/208V

WORK STATION CRANE WITH MANUAL HOIST:

SPAN 1.14M [3.75'] X RUNWAY LENGTH 6.75M [22.15'] X CLEAR HEIGHT 3.0M [10']

CAPACITY: 1000kg [1 TON]

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.

NOTE:

REFERENCE DRAWING FILE A1843001
P41050903-330000-01
SHEET 2 OF 10

REV	DESCRIPTION	DATE	BY	CHKD	APP'D
1	ISSUED FOR CONSTRUCTION	5/12/06	J. CHANG	T. KUZAY	
2	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
3	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
4	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
5	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
6	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
7	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
8	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
9	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	
10	REVISED PER COMMENTS	5/16/06	J. CHANG	T. KUZAY	

PROJECT NO.	A23180B0	DATE	5/12/06
PROJECT NAME	ARGONNE NATIONAL LABORATORY	DATE	5/12/06
PROJECT LOCATION	ARGONNE NATIONAL LABORATORY	DATE	5/12/06
PROJECT DESCRIPTION	ADVANCED PHOTON SOURCE	DATE	5/12/06
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