



SPECIFICATIONS
SHIELDING REQUIREMENTS:
 ENTRY/EXIT PANEL 1" THK LEAD (TOTAL BACK WALL= 2" THK LEAD)
 SIDE WALLS 3/4" THK LEAD
 ROOF 1/2" 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 11.50M LONG X 3.3M HIGH [5.8' X 37.7' X 11']
 CLEAR HEIGHT INSIDE: 3.0M [10']
 DOOR OPENING: 2.4M HIGH X 1.0M WIDE [8' X 3.3']

SLIDING DOORS: TWO 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 19mm [3/4"] - STEEL 6mm [1/4"]
STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND
WEIGHT: 2280LB

STANDARD BACK PANEL: 1.0M WIDE X 3.3M HIGH [3.3' X 11']
SANDWICH CONSTRUCTION:
 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: 1.0M WIDE X 1.75M LONG [3.3' X 5.8']
SANDWICH CONSTRUCTION:
 STEEL 3mm [1/8" (11Ga)] - LEAD 12mm [1/2"] - STEEL 6mm [1/4"]
STRUCTURE: MC 6 X 16.3 STEEL CHANNEL, ALL AROUND
WEIGHT: 1150LB

STANDARD DOOR PANEL: 1.0M WIDE X 2.5M HIGH [3.3' X 8']
SANDWICH CONSTRUCTION:
 STEEL 3mm [1/8" (11Ga)] - LEAD 19mm [3/4"] - STEEL 6mm [1/4"]
WEIGHT: 1470LB

LABYRINTH PANELS: UTILITIES, CABLES, VENTILATION, OZONE
UTILITIES: CHILLED WATER 5~0.8°C [4~-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 9.0M [29.53'] X CLEAR HEIGHT 3.0M [10']
 CAPACITY: 1000Kg (1 TON)
 ILLUMINATION: FLUORESCENT- OFFICE RATED: 100 FOOT CANDLE.

FOR USER REFERENCE ONLY
DEFAULT FOR ID-A (HJ310000-90-00)
MODIFIED FROM 4-ID-A (HJ310000-00-00)

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.

LEGEND:
 DET./SECT.
 SHT. SHOWN

REV	DESCRIPTION	DATE	BY	CHKD	APP'D	DATE	BY	CHKD	APP'D
1	ISSUE FOR CONSTRUCTION	3/24/9	COYUERA	SHU		6/24/9			
2	REVISED TO ADD DOOR	6/25/9	CHANG	KUZAY		6/25/9			
3	REVISED TO ADD CRANE	6/26/9	CHANG			6/26/9			

PARTS LIST		MATERIAL	QTY
ARGONNE NATIONAL LABORATORY			
ADVANCED PHOTON SOURCE			
HJ SRICAT FOE 4-ID-A FIRST OPTICS ENCLOSURE ASSEMBLY			
(PERSPECTIVE & SPECIFICATIONS)		SCALE	DATE
		N/A	210
		DWG NO.	HJ-310000-90-02