

FULL LINE OF RADIATION SHIELDING PRODUCTS



Radiation Protection Products (RPP) manufactures a full line of radiation shielding products. They include Lead Lined Doors (solid core wood, lead lined, and steel strapped), Lead Lined Drywall (otherwise known as Lead Lined Sheetrock or Lead Lined Gypsum Wallboard) and Lead Lined Plywood, Leaded X-ray Glass, Lead Lined Frames for borrowed lites and doors, pass boxes and many other lead products.

We also manufacture and install Radiation Therapy Vault Doors (Neutron Doors) and Interlocking Lead Bricks.

Radiation Protection Products uses only the finest quality material and exercises the best quality control possible.

We offer a top quality line of lead shielding products at a competitive price with delivery to satisfy your needs. For additional information concerning RPP's products or services, please contact us toll free at:

888-746-4777 PHONE
866-554-8445 FAX

ALL SHIELDING PRODUCTS PROVIDED MEET THE FOLLOWING SPECIFICATIONS:

Sheet Lead

Sheet Lead shall meet or exceed the Federal Specification QQL-201 F Grade C and ASTM B749-03 Standard Specification for Lead and Lead Alloy Strip, Sheet and Plate Products, see NCRP reports #33, #35, #49 and #147.

Gypsum Board

Gypsum Board shall meet or exceed ASTM C1396, ASTM C840, and Federal Specification SS-L-30D Grade X Type III.

Leaded Glass

Leaded Glass shall meet or exceed Federal Specification DD-G-451.

Radiation Protection Products manufactures all lead shielding products in accordance with Lead Industries Hand Book and all NCRP Applicable Reports (#33, #35, #39, #40, #49 and #147) and NBS, HB. #114.

Cassette Transfer Cabinets

Cassette Transfer Cabinets shall meet or exceed MIL-C-3673 (DM).

Wood and Plastic Laminate Doors

All Wood Doors shall meet or exceed the ANSI/NWMA Industry Standard I.S.I.-80, I.S.I.4-80, NCRP Report #49.

TERMS AND CONDITIONS OF SALES

Prices in U.S. Dollars

Prices are in U.S. dollars, F.O.B. factory, Chapel Hill, Tennessee, unless otherwise specified. Prices, specifications, and terms of sales are subject to change without notice. All orders are subject to review prior to acceptance.

Terms

Net 30 days on established accounts with approved credit. Visa/MasterCard.

Credit

New accounts, pending credit approval, may be immediately expedited by enclosing a check, wire transfer or credit card. To facilitate opening of accounts, please forward your bank and four (4) trade references. Tax-exempt or Resale Certificate required if applicable.

Minimum

Minimum invoice of \$500.00. Orders under \$500.00 may require payment by Visa or MasterCard.

Ordering/Purchasing

Your purchase order or contract is requested on all orders. All orders should be confirmed and clearly marked "Confirmation—Do Not Duplicate."

Shipment

Unless detailed shipping instructions are specified on all orders, we reserve the right to choose the method of transportation and to make partial shipments, if necessary.

Packaging/Set Up Charge

Special packaging quoted as extra. Set up charges may be applicable with certain fabrications.

Returns

Return merchandise will be accepted only with prior written authorization. Freight charges must be prepaid.



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ARCHITECTS

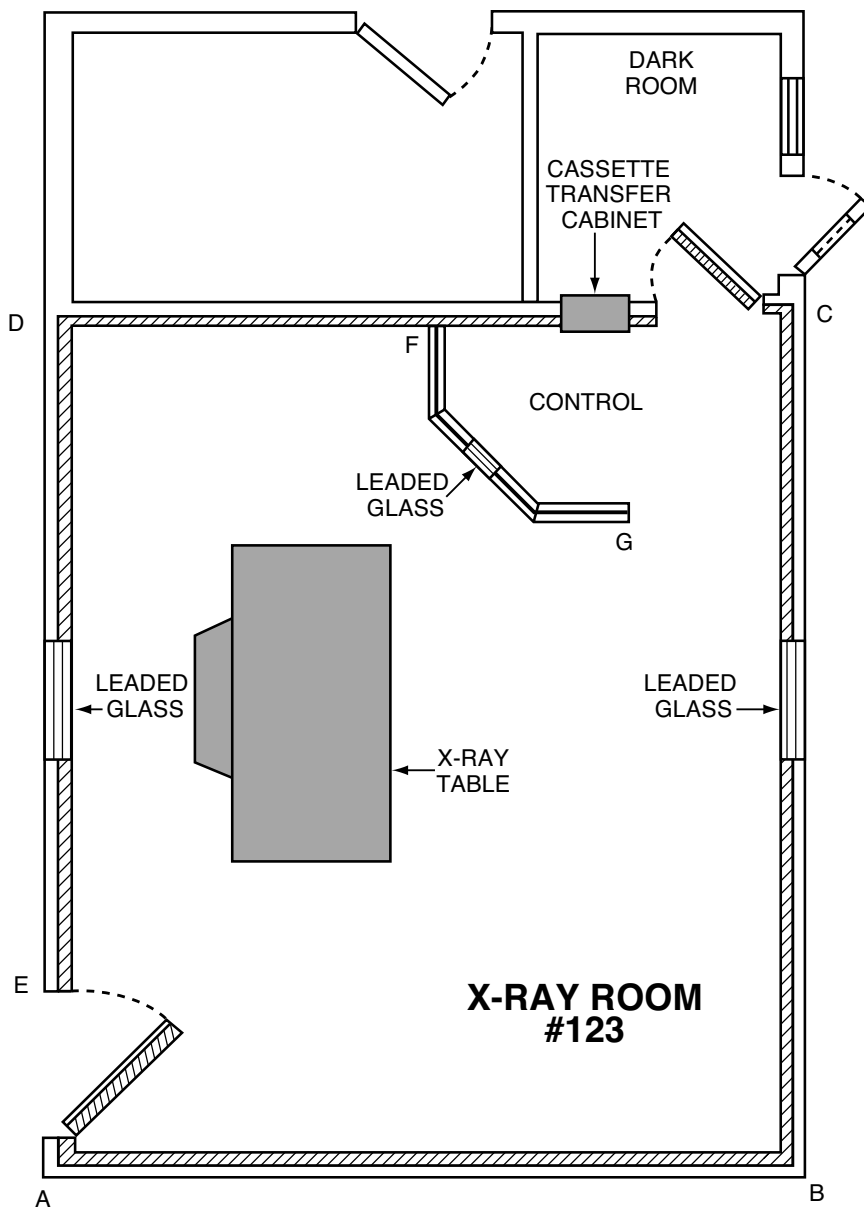
When radiation protection is required, it is extremely important to have the designation for this material documented as clearly as possible on your drawings.

Floor plans specifying lead shielding requirements are the most concise method of designating material desired (see example on right).

To further simplify and clarify your radiation shielding requirements, and to eliminate confusion during installation, lead requirements should be specified in increments of .5mm (1/64") for all practical purposes, with a minimum thickness of .8mm (1/32"). Upon receiving the Physicist report for shielding requirements, always round up to the .5mm thickness.

Consideration should also be given to having only one manufacturer of radiation protection material. This way there is a single firm responsible for any questions that may arise concerning radiation protection.

Radiation Protection Products, Inc., as a manufacturer, has the capabilities to manufacture any and all radiation protection products which may be required. With materials specified "as manufactured by Radiation Protection Products, Inc.," you are assured of the best possible job coordination and that you are dealing with a major producer of radiation shielding material.



RADIATION PROTECTION SCHEDULE X-Ray Room #123



LEAD LINED
PARTITIONS

A-B	_____	MM	_____	Height
B-C	_____	MM	_____	Height
C-F	_____	MM	_____	Height
F-D	_____	MM	_____	Height
D-E	_____	MM	_____	Height
E-A	_____	MM	_____	Height
F-G	_____	MM	_____	Height



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RADIATION SHIELDING NEUTRON DOOR SAFETY FEATURES

Listed below are the optional safety features available for both our swing and sliding radiation shielding doors (neutron doors).

SWING RADIATION SHIELDING DOOR SYSTEM SAFETY OPTIONS:

Presence Sensor

The presence sensor can be mounted inside the vault – just beyond the door path – to detect any motion, whether by an object or by a person, and immediately send a signal to the door operator and stop the door from opening or closing. A presence sensor can be mounted on the control room side, on the header of the frame, thus safeguarding both patients and technicians.

Safety Edge

Typically applied to the face of the strike side jamb, the safety edge is pressure sensitive and will detect any pressure that exceeds 8psi. Upon detection of pressure, the safety edge will send an immediate signal to the operator to stop, or stop and reverse the door.

SLIDING RADIATION SHIELDING DOOR SYSTEM SAFETY OPTIONS:

Battery Back-up

RPP's battery back-up system will automatically open the door any time there is a power failure. It will slowly open the door for an adjustable length of time. After the power is restored, the system will automatically return to normal operation. The battery backup

system is supplied with a monitored trickle charging system to keep the battery backup power supply fully charged.

Presence Sensor (light curtain)

RPP utilizes a light curtain presence sensing safety device on both sides of the sliding door. The light curtain presence sensors are mounted in the vault recess inches from the top of the slider door. This feature will send a signal to the operator upon sensing any motion that will stop or stop and reverse the slider door.

Safety Edge

The slider door will typically have two safety edges applied on both sides of the front door style. Detecting any pressure beyond 8psi, the safety edges will send a signal to the operator to stop or stop and reverse the door.

SAFE SWINGING POWER DOOR OPERATING SPEEDS

(Time to open or close measured in seconds per ANSI A156.10 Standard)

DOOR WIDTH (Inches)	DOOR WEIGHT (LBS)						
	1,000	2,500	5,000	7,500	10,000	12,500	15,000
36"	6 SEC.	10 SEC.	14 SEC.	17 SEC.	19 SEC.	22 SEC.	24 SEC.
42"	7 SEC.	11 SEC.	16 SEC.	20 SEC.	23 SEC.	25 SEC.	28 SEC.
48"	8 SEC.	13 SEC.	18 SEC.	22 SEC.	26 SEC.	29 SEC.	32 SEC.
54"	9 SEC.	15 SEC.	19 SEC.	24 SEC.	29 SEC.	32 SEC.	36 SEC.
60"	10 SEC.	16 SEC.	23 SEC.	28 SEC.	32 SEC.	36 SEC.	39 SEC.

FORMULA (For door width and height other than those listed above, use the formula below.)

TIME TO OPEN OR CLOSE = (DOOR WIDTH IN INCHES x (√ DOOR WEIGHT IN LBS.)) ÷ 188

WARNING

This door operator should operate the door at a speed not faster than the above. Any attempt to operate at a faster speed will cause premature wear and damage to the operator and void any warranty. Also, liability may occur to anyone operating the door faster than recommended if injuries occur as a result.



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PARTIAL LIST OF JOBS FURNISHED BY RPP

JOB	LOCATION	CONTRACTOR
Bay Care Med Center	Green Bay, WI	M.A. Mortenson Co.
Montgomery General Hospital	Olney, MD	H.B.E. Co.
Cleveland Clinic	Wooster, OH	Marshall Erdman
Fort Defiance Health Care	Fort Defiance, AZ	Border Glass & Aluminum Empire Lath & Plaster Flintco Construction
Elmdorf Air Force Base	Anchorage, AK	M.A. Mortenson
Mayo Clinic	Rochester, MN	Mulachy Drywall
Mayo Clinic	Rochester, MN	M.A. Mortenson
Mayo Clinic	Rochester, MN	Weis Builders
Hazardous Devices School	Redstone Arsenal, AL	
Travis Air Force Base	Travis AFB, CA	Newberg-Brinderson
Montefiore Medical Center	Bronx, NY	Nastasi & Associates Turner Construction
V.A. Medical Hospital	Minneapolis, MN	M.A. Mortenson Co.
Regional Medical Center	Fayetteville, AR	VVP America Inc. dba Binswanger Glass
GE Test Cells	Waukesha, WI	Olympic Wall Systems
Cessna Airlines	Wichita, KS	
Northwest Airlines	Minneapolis, MN	
Phillips Medical Systems	Scarborough, OH	
Syncor	Hicksville, NY	
U.S.L.E. Base	Sand Island, HI	Paglia Engineering
Smith Hospital	Valdosta, GA	Brasfield & Gorri
V.A. Hospital	Ann Arbor, MI	P.J. Dick
McMinnville Community Hospital	McMinnville, OR	McDevitt Street Bovis
Mary Washington Hospital	Fredricksburg, VA	Centex Rodgers



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