

MarShield™

CUSTOM RADIATION SHIELDING PRODUCTS



LEAD LINED CABINETS

When Protection And Safety Must Be Absolutely Assured

www.marshield.com



SPECIAL FEATURES

"...Our custom Lead Cabinets portfolio contains any design for every application!"

MarShield manufactures a wide range of standard or custom designed lead lined (stainless steel or powder coated) cabinets suitable for Nuclear Medicine or Radiochemistry laboratories. MarShield has worked extensively with architects, engineers, contractors and end-users like doctors, hospitals, laboratories, and medical & veterinary clinics to ensure that our designs are functional and harmonious with their surroundings while meeting radiation code requirements.



Cabinet Locks



Heavy Duty Hinges



Magnetic Easy-Open Closures



Sliding Tray Shelf



STANDARD LEAD LINED CABINETS

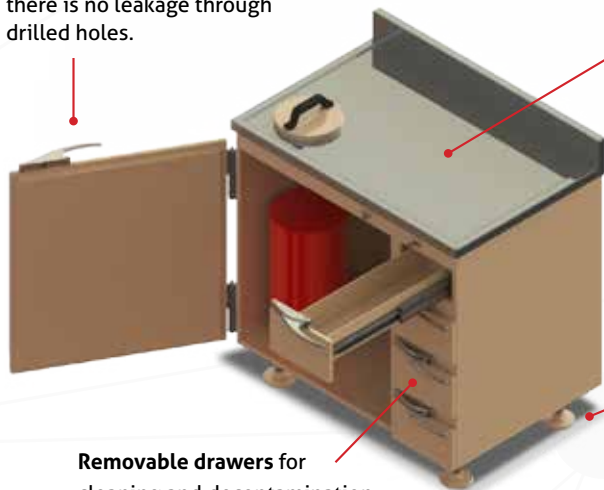
All standard cabinets are available with your choice in lead shielding – 1/4", 1/2" and 1" (custom thickness available up to 4"). Our cabinets combine effective radiation protection and durability in a rugged, attractive and versatile line.



CUSTOM LEAD LINED FURNITURE

From a small one-off cabinet to an entire room system, our qualified design experts will work with you to meet your specific requirements. With 35 years of experience with custom lead furniture our attention to detail shows every step of the process from the moment your order is entered until it arrives at your doorstep.

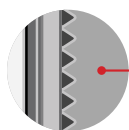
Heavy duty locking key latches are externally mounted to ensure there is no leakage through drilled holes.



Optional: Stainless steel countertop with backsplash and spill proof lip.

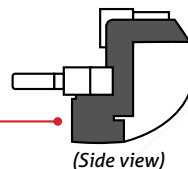
Adjustable legs to make the cabinet easier to install or relocate with use of palletjack, or to adjust for uneven floors.

Removable drawers for cleaning and decontamination.



Adjustable shelves with multiple height selection.

Step down notch in the doors and drawers for optimum shielding protection.



ADDITIONAL FEATURES

- Design Assist Team to custom design any cabinet
- Thickness of 1/32" to 4" or more of lead available
- All six sides of the cabinet including the cupboard door and drawer faces are lead lined. Lead shielding is fully encased in steel with no exposed lead
- All shelves or drawers offer a full 100lb. capacity with drawer or shelf extended or stationary
- Durable paint finish on all surfaces
- Custom built to any width, depth, or height to meet your requirements. Standard models are also available



STANDARD CABINET MODELS



LEAD LINED DECAY CABINETS #MS-DC 1

Our Decay Cabinets are designed for storage of radioactive materials or decay radioactive waste materials. Heavy-duty adjustable shelves incorporated into the cabinet allow the waste to be placed directly onto them (short or long term) until it can be safely disposed of. Internal dimensions of the cupboard are based on the amount of shielding required.



LEAD LINED DECAY AND STORAGE CABINETS #MS-DSC 2

Our Decay and Storage Cabinets incorporate functionality and needs into its design. This cabinet features stackable drawers for storage of radioisotopes on one side with a large cupboard on the opposite side housing two adjustable shelves for decaying materials. Internal dimensions, along with the drawer and cupboard dimensions are based on the amount of shielding required. Drawers can have an optional divider placed into them separating the contents.



LEAD LINED UNIT DOSE CABINETS #MS-UDC 3

Our Unit Dose Cabinet is ideal where space is limited. With multiple storage compartments, this cabinet houses a host of radioactive sources. The top cupboards can have an optional sharps container cut out with a lid for spent syringes or for storage. The bottom drawers are perfect for storing source pigs on their sides, syringes or radioisotopes, phantoms and flood sources. The two drawers can be of equal size or two separate top drawers and one single bottom one. Internal dimensions along with the drawer dimensions are based on the amount of shielding required. Drawers can have an optional divider placed into them separating the contents.



LEAD LINED WASTE AND STORAGE CABINETS #MS-WSC 4

Our Waste and Storage Cabinets feature stackable Internal dimensions, along with the drawer and cupboard dimensions are based on the amount of shielding required. Drawers can have an optional divider placed into them separating the contents.

The MarShield website now offers our customers the following CAD drawings:

Approval drawings - PDF & DWG format or 3D Rendered model - Solidworks format.

Note: edrawings viewer software is can be downloaded from our site.

LEAD LINED RADIOISOTOPE STORAGE CABINETS #MS-RSC 5

Our Radioisotope Storage Cabinets are available in 3, 6, 9, or 12 drawer configurations. Drawers can have an optional divider placed into them separating the contents. Internal dimensions, along with the drawer dimensions are based on the amount of shielding required.

LEAD LINED PREPARATION ENCLOSURE BASE CABINET #MS-PEBC 6

Our Preparation Enclosure Base Cabinets are designed to support the lead-lined preparation enclosure. The cabinet includes full height, overlapping double locking doors that open to an adjustable height shelf. The cabinet can be used for decay and storage. Internal dimensions of the cupboard are based on the amount of shielding required.

LEAD LINED WASTE CABINETS #MS-WC 7

Our Waste Cabinets are designed for radioactive storage safely through the chute located in the top work surface complete with a shielded lid. The opening allows the waste to be dropped directly into your polyethylene container prior to decay and disposal where it will be stored until you are ready to safely move it. Internal dimensions of the cupboard are based on the amount of shielding required.



| CABINET | MODEL # | SIZE (Depth x Width x Height) | LEAD SHIELDING | WEIGHT LBS |
|---------------------------------------|---------------------------|-------------------------------|----------------|------------|
| 1 DECADE CABINETS | MS-DC-25/30.5-24-36.5 | 24" x 30.5" x 36.5" | 0.25" | 1,027 |
| | MS-DC-05/30.5-24-36.5 | | 0.50" | 1,555 |
| | MS-DC-1.0/30.5-24-36.5 | | 1.0" | 2,830 |
| 2 DECADE & STORAGE CABINETS | MS-DSC-25/36.5.5-24-36.5 | 24" x 36.5" x 36.5" | 0.25" | 1,360 |
| | MS-DSC-05/36.5.5-24-36.5 | | 0.50" | 1,965 |
| | MS-DSC-1.0/36.5.5-24-36.5 | | 1.0" | 3,450 |
| 3 UNIT DOSE CABINETS | MS-UDC-25/30.5-24-36.5 | 24" x 30.5" x 36.5" | 0.25" | 1,145 |
| | MS-UDC-05/30.5-24-36.5 | | 0.50" | 1,665 |
| | MS-UDC-1.0/30.5-24-36.5 | | 1.0" | 2,940 |
| 4 WASTE & STORAGE CABINETS | MS-WSC-25/36.5-24-36.5 | 24" x 36.5" x 36.5" | 0.25" | 1,275 |
| | MS-WSC-05/36.5-24-36.5 | | 0.50" | 1,880 |
| | MS-WSC-1.0/36.5-24-36.5 | | 1.0" | 3,380 |
| 5 RADIOISOTOPE STORAGE CABINETS | MS-RSC-25/30.5-24-36.5 | 24" x 30.5" x 36.5" | 0.25" | 1,645 |
| | MS-RSC-05/30.5-24-36.5 | | 0.50" | 2,145 |
| | MS-RSC-1.0/30.5-24-36.5 | | 1.0" | 3,325 |
| 6 PREPARATION ENCLOSURE BASE CABINETS | MS-PEBC-25/36.5-24-36.5 | 24" x 36.5" x 36.5" | 0.25" | 1,130 |
| | MS-PEBC-05/36.5-24-36.5 | | 0.50" | 1,750 |
| | MS-PEBC-1.0/36.5-24-36.5 | | 1.0" | 3,230 |
| 7 WASTE CABINETS | MS-WC-25/30.5-24-36.5 | 24" x 30.5" x 36.5" | 0.25" | 927 |
| | MS-WC-05/30.5-24-36.5 | | 0.50" | 1,465 |
| | MS-WC-1.0/30.5-24-36.5 | | 1.0" | 2,745 |



ADDITIONAL CABINET MODELS

LEAD LINED PET UNIT DOSE CABINETS #MS-PUDC 8

Our Pet Unit Dose Cabinets are ideal for small PET hot labs. This robust cabinet is intended for the placement of your L-Block and built in dose calibrator shield on the top work surface. A cut out for your sharps container is included with a shielded lid. A dose calibrator can be placed on a raised stand that can be bolted to the work surface. The top work surface is 304 stainless steel, #4 finish with a partial 4 " high backsplash. The lower portion of the cabinet has two locking cupboard doors that house four independent sliding shelves. The cabinet is perfect for storage of your PET shipping containers. Internal dimensions of the cupboard are based on the amount of shielding required.



LEAD LINED PHANTOM CABINETS #MS-PC 9

Our Phantom Cabinets are primarily designed to store flood sources and phantoms on their ends and is used with our diversified multi cabinet configuration. The interior is sectioned by an adjustable and removable divider. This cabinet can be ordered as a stand alone or attached with another cabinet. Note: does not support or accommodate 24" circular phantoms. Internal dimensions of the cupboard are based on the amount of shielding required.



ALL CUSTOM CABINET MODELS WILL INCLUDE CAD DRAWINGS AFTER THE RECEIPT OF AN ORDER.

| CABINET | MODEL # | SIZE (Depth x Width x Height) | LEAD SHIELDING |
|--------------------------|-----------------------------|-------------------------------|----------------|
| 8 PET UNIT DOSE CABINETS | MS-PUDC-25/36.5-24.75-36.5 | 24.75" x 36.5" x 36.5" | 0.25" |
| | MS-PUDC-05/36.5-24.75-36.5 | | 0.50" |
| | MS-PUDC-1.0/36.5-24.75-36.5 | | 1.0" |
| 9 WASTE CABINETS | MS-PC-25/11.6-24-36 | 24" x 11.6" x 36" | 0.25" |
| | MS-PC-05/11.6-24-36 | | 0.50" |
| | MS-PC-1.0/11.6-24-36 | | 1.0" |



STORAGE CONTAINERS



"...MarShield manufactures a comprehensive line of custom designed lead-lined storage containers."

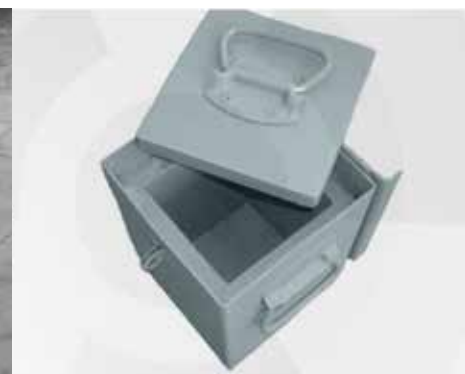
MarShield manufactures a comprehensive line of custom designed Lead-Lined Storage Containers designed to your exact requirements. MarShield has worked seamlessly with end users including hospitals, laboratories, medical facilities, and Nuclear plants ensuring that a final design is functional and fits within its surroundings and radiation code requirements. We design and manufacture both standard and custom one-off designs. We employ a fully qualified design team to help with every step of the process, from the moment your order is entered until it arrives at your doorstep.

FEATURES & BENEFITS

- Manufactured from A36 or 44W carbon steel
- Hydraulic Assisted Lifting Mechanism Available
- Lead filled or lined only with 99.94% pure Lead – ASTM B-29
- Composite solutions consisting of Lead and Boron Filled Polyethylene are available for Gamma / Neutron shielding applications
- All Lead is fully encapsulated with no exposure
- All hardware from heavy-duty hinges, to locks are of the highest quality
- All Storage Containers are ground smooth from sharp corners or edges
- Extreme care is taken in the surface preparation to all surfaces for the supply and application of a finish coat of paint to the desired colour
- All Storage Containers are available with your choice in lead shielding from 1/32" to 2" thick or more
- All Storage Containers come equipped with a hinged lockable lid or removable lids
- Optional stainless steel is available in lieu of carbon steel
- Our Storage Containers combine effective radiation protection and durability in a rugged, attractive and versatile line

APPLICATIONS

- Storing and transporting radioactive materials
- Vial pigs for PET or other high energy radionuclides
- Unit dose pigs for radiopharmaceuticals
- Nuclear Densometer storage



FOUR DECADES OF TRUSTED EXPERIENCE



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