

Specification — Lead Lined Welded Hollow Metal Door Frames

A&L Shielding's hollow metal door frames are designed with various levels of shielding protection and can be prepared for a wide variety of door hardware

Door Frames - welded

GENERAL:

Frames support lead lined doors and provide a lead lined interface between the door and the lead lined drywall in the adjacent walls.

They are attached to the walls using a variety of techniques designed to hold the door securely and to prevent shielding leaks.

Frames are available in fully-welded form and can also be obtained in knock down (KD) form.

PRODUCT DETAILS:

Frames shall be manufactured from cold rolled steel per ASTM A568 and ASTM A366 in 16 gage. Frames are normally set up and welded type units for maximum support.

Frames shall have 2" faces, with a 1/2" masonry profile return. Wall fasteners of the proper type shall be provided for labeled frames. Frames are sized to match any available door dimensions.

All joints shall be die mitered with integral tabs for interlocking and reinforcement of the jambs to the head and to ease welding. All frames shall receive a factory coat of rust inhibitive primer.

Frames are to be mortised, reinforced and drilled and tapped for all mortise finish hardware. Frames are to be reinforced only for surface mounted hardware, with drilling and tapping to be done in the field by the installing contractor.

Unpierced sheet lead of specified thickness is shaped to fit the frame contour and inserted in the frame. Lead joints are overlapped to ensure continuity of shielding and secured in place with welded clips. Lead is dressed around mortised hardware preps.

HARDWARE - Hardware selection is critical to installation success. High door weights involved require special consideration in hardware selec-

tion, especially in hinge systems. Either pivot or continuous type hinges are designed to carry the door weights.

Door hardware will normally be supplied by others and may require lead lining equal to the lining in the door and frame assembly. Care must be taken when field installing hardware to avoid disturbing existing frame lining. A heavy duty lead lined closer is recommended to control door inertia.

EXECUTION:

INSTALLATION - Each frame should be installed in accordance with DHI recommendations for frame installation, with special care required due to high door weights involved. Frame must be plumb and square in the opening and securely fastened in place.

The lead in the walls must be overlapped with the lead lined frame to ensure shielding overlap.

SWING - The extent of the shielding in a frame is determined by the door swing. If the door swings away from the shielded wall of the room, the frame is to be fully shielded.

Frames for doors swinging toward the shielded wall are lined from the return on the shielded side down into the stop.

WASTE - Dispose of all scrap lead in an environmentally responsible manner.



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