

Specification — Bullet Resistant Door Frames

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

Bullet Resistant Door Frames - per UL 752

GENERAL:

Frames support bullet resistant doors and provide a protective interface between the door and the protective walls adjacent to the frame. They are attached to studs in the walls using a variety of techniques designed to hold the door securely. Bullet resistant frames are manufactured in a fully welded form.

UL 752 protective levels available include level 1, 2, 3 and 6.

PRODUCT DETAILS:

Frames shall be manufactured from cold rolled steel per ASTM A568 and ASTM A366 in 16 to 12 gage thicknesses, depending on bullet resistant levels desired.

Frames are normally set up and welded type unites for maximum support. Faces shall be a minimum of two inches wide, with a 1/2" or greater masonry profile return. The face and return sizes vary in order to accommodate the various protective levels of material installed.

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.

Bullet resistant material of the required thickness is shaped to fit the frame contour and inserted into the

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frame. It is held firmly in place with heavy gage metal straps welded to the frame profile.

HARDWARE - Hardware selection is critical to installation success. The high door weights because of bullet resistant lining require special consideration in hardware selection, especially in the hinge system. Either heavy duty butt or continuous type hinges are designed to carry the weight of bullet resistant doors.

Door hardware will normally be supplied by others, and should be suitable for the protective level required. A heavy duty (size 6 maximum) closer is recommended to control door inertia.

EXECUTION:

INSTALLATION - Installation should be in accordance with DHI recommendations for frame installation with special care required because of high door weights involved.

The frame must be plumb and square in the opening and securely fastened in place.

The protective material in the walls must overlap with the frame shielding in order to ensure shielding overlap.



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