



HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES



Hollow Metal Manufacturers Association

Division of the National Association of Architectural Metal Manufacturers

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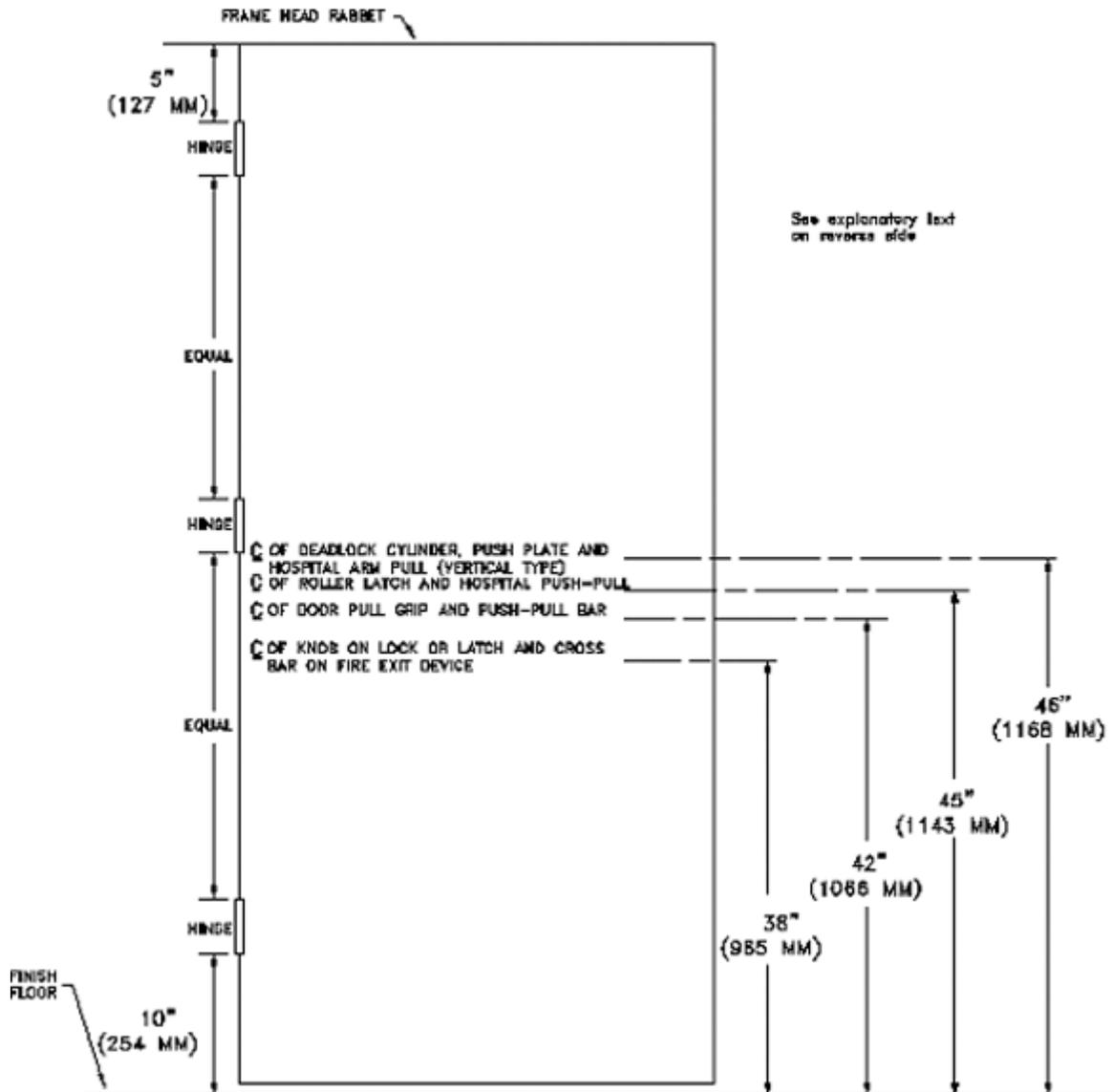
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RECOMMENDED HARDWARE LOCATIONS FOR CUSTOM HOLLOW METAL DOORS AND FRAMES

NAAMM Standards HMMA 860, 861, 862, 863 and 865



Recommended locations for hardware on custom hollow metal doors differ from those established for standard hollow metal doors principally with respect to hinges, knobs, and strikes.

As shown on the drawing, all hardware items except the upper and intermediate hinges are located by fixed dimensions from the finished floor to the centerline of the item, making the locations of all user-handled items at the same level for all door heights. Finish floor level is defined as the top surface of the floor, except that when resilient tile or carpet is used it is the top surface of the underlying concrete. These standards are recommended by the custom hollow metal industry as representing the long accepted usual preferences of both architects and users under normal conditions of use. However, under some circumstances these standard locations are inadvisable for certain items. For

example, a lower position for the deadlock is possible, and intended usage by small children or handicapped persons will necessarily require positioning the user handled items in other than these recommended standard locations. With custom doors, alternative locations can readily be provided without delaying delivery.

HINGE LOCATIONS

On custom doors, the top and bottom hinges have fixed locations rather than the varying locations used on standard doors. The three hinges shown on the drawing are recommended for doors up to and including 7 ft. 6 in. (2286mm) in height. For doors of greater heights, where four or more hinges are used, the top and bottom hinges are located as shown, with the intermediate hinges being equally spaced between them. The hinge backset (distance from back of cutout to back face of door) is 1/4 in. (6.4mm).

KNOB AND CROSS BAR LOCATIONS

Regardless of the type of lock or latch used, the knob is located at the same standard 38 in. (965mm) from the finish floor, for the convenience of the user. The cross bar of exit hardware is also centered at this height. This will result in some variation in the strike location, depending on the type of lock, latch, or exit device used. However, this is considered preferable to standardizing the location of the strike, as recommended for standard doors, with resulting variations in the location of the user-handled items.

DEADLOCK LOCATION

The recommended location for the deadlock is 46 in. (1168mm) to centerline of cylinder, positioning it so as to avoid interference with through bolts and preparations for other hardware.

PUSH-PULL HARDWARE LOCATIONS

The recommended location for the center of the grip on a door pull or on a push plate, and the centerline of a push-pull bar is 46 in. (1168mm).

ROLLER LATCH LOCATIONS

Roller latches are generally used with dummy knobs or with hospital pulls. Often, when used on hospital bathrooms or toilets, an emergency release strike is mounted at 6 in. or 10 in. (152mm to 254mm) above the roller latch strike.

LOCATIONS FOR OTHER HARDWARE ITEMS

There are many door hardware items which are not indicated on the drawing. The locations for these items are in accordance with generally accepted standards. For example, kick, mop, and armor plates unless otherwise specified, extend to within 1/4 in. (6.4mm) from the bottom of the door and their horizontal length are as follows: on single doors, the nominal door width less 2 in. (51mm) on the push side and the nominal door width less 1 in. (25mm) on the pull side; on doors of pairs, the nominal door width less 1 in. (25mm) on each side. Silencers on single door frames are placed opposite the hinges, and on double door frames are located 6 in. (152mm) on each side of the center of the head stop. For other items such as closers, floor hinges, overhead holders and other specialty items, the exact location varies somewhat with their design and standardization would be impractical. Care should be taken to avoid any interference between certain types of door closers and overhead door holders.