



HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES



This Manual was developed by representative members of and approved by the Hollow Metal Manufacturers Association (HMMA) Division of the National Association of Architectural Metal Manufacturers (NAAMM) to provide their opinion and guidance on the basic design of hollow metal doors and frames. This standard contains advisory information only and is published as a public service by NAAMM and its HMMA Division. NAAMM and its HMMA Division disclaim all liability of any kind for the use, application, or adaptation of material published in this standard.

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RECOMMENDED HARDWARE LOCATIONS FOR HMMA HOLLOW METAL DOORS AND FRAMES

These standards are recommended by the Hollow Metal Manufacturers Association as representing the long accepted usual preferences of both architects and users under normal conditions of use. Under some circumstances these standard locations are inadvisable for certain items based on accessibility codes. For example, a lower position for the deadlock is possible, when intended usage by small children or handicapped persons necessitates require positioning the user handled items in other than these recommended standard locations.

Hardware location and floor conditions

As shown on the drawing, all hardware items except the upper and intermediate hinges are located by fixed dimensions from the floor to the centerline of the item, making the locations of all user-handled items at the same level for all door heights. The floor is defined as top of the concrete or structural slab. Refer to HMMA-810 TN01-03 "Defining Undercuts" when determining hardware locations based on special floor conditions.

BUTT HINGE

The three hinges shown on the drawing are recommended for doors over 5 ft. 0 in. (1524 mm) 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 (the dimension from the stop face, or narrow side, to the edge of the hinge cutout) is 1/4 in. (6.4mm).

LOCKSET

Regardless of the type of lock or latch used, the centerline of the lever or knob is located at the 38 in. (965mm) from the floor, for the convenience of the user. This will result in some variation in the strike location, depending on the type of lock used.

EXIT DEVICE

Locations may vary depending on hardware manufacturers' recommended locations or as required by code.

AUXILLIARY DEADLOCK AND LATCH

The recommended location for the deadlock is 46 in. (1168mm) to centerline positioning it so as to avoid interference with through bolts and preparations for other hardware. ADA requires that the centerline of operating element of cylinder be no more than 48 in. (1219 mm) above floor.

PUSH-PULL HARDWARE

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

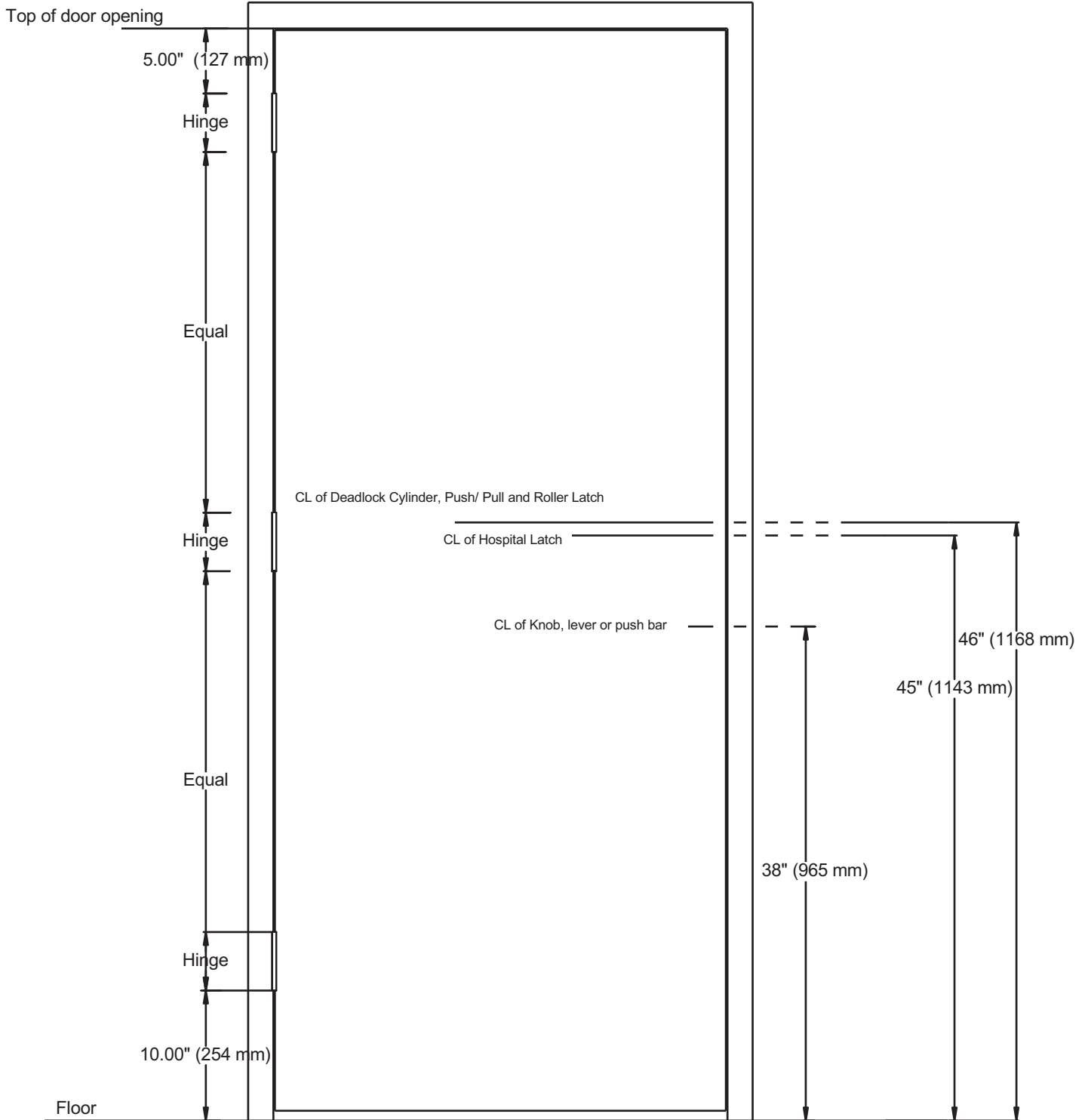
The recommended location is 46 in. (1168 mm) to centerline of latch. Roller latches are generally used with dummy knobs or with push/ pulls.

HOSPITAL LATCH

The recommended location is 45 in. (1143 mm) to the centerline of latch.

DOOR CONTROL DEVICES (CLOSERS, HOLDERS, STOPS, OPERATORS)

Locations may vary depending on hardware manufacturers' recommended locations or as required by code.



RECOMMENDED GUIDE SPECIFICATIONS FOR HMMA HOLLOW METAL DOORS AND FRAMES

HMMA 860 — Hollow Metal Door and Frames

ANSI/NAAMM

HMMA 861 — Commercial Hollow Metal Doors and Frames

ANSI/NAAMM

HMMA 862 — Commercial Security Hollow Metal Doors and Frames

ANSI/NAAMM

HMMA 863 — Detention Security Hollow Metal Doors and Frames

ANSI/NAAMM

HMMA 865 — Swinging Sound Control Hollow Metal Doors and Frames

ANSI/NAAMM

HMMA 866 — Stainless Steel Hollow Metal Doors and Frames

ANSI/NAAMM

HMMA 867 — Commercial Laminated Core Hollow Metal Doors and Frames

RELATED HMMA DOCUMENTS

HMMA 800 — Introduction to Hollow Metal

HMMA 801 — Glossary of Terms for Hollow Metal Doors and Frames

HMMA 802 — Manufacturing of Hollow Metal Doors and Frames

HMMA 803 — Steel Tables

HMMA 805 — Recommended Selection and Usage Guide for Hollow Metal Doors and Frames

HMMA 810 — Hollow Metal Doors

HMMA 820 — Hollow Metal Frames

HMMA 830 — Hardware Selection for Hollow Metal Doors and Frames

HMMA 831 — Recommended Hardware Locations for Hollow Metal Doors and Frames

HMMA 840 — Installation and Storage of Hollow Metal Doors and Frames

HMMA 841 — Tolerances and Clearances for Commercial Hollow Metal Doors and Frames

HMMA 850 — Fire-Rated Hollow Metal Doors and Frames

HMMA 890 — Technical Summary

HMMA 810-TN01 — Defining Undercuts

HMMA 820-TN01 — Grouting Hollow Metal Frames

HMMA 820-TN02 — Continuously Welded Frames

HMMA 820-TN03 — Guidelines for Glazing Hollow Metal Transoms, Sidelights and Windows

HMMA 840-TN01 — Painting Hollow Metal Products

HMMA 840-TN02 — Maintenance of Installed Hollow Metal Products