HOLLOW METAL MANUAL

NAAMM STANDARD

HMMA 831-24

8d METAL DOORS & FRAMES

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HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES

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HMMA
HOLLOW METAL MANUFACTURERS ASSOCIATION

A Division of
NAAMM
NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS

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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HARDWARE LOCATIONS FOR HMMA HOLLOW METAL DOORS AND FRAMES

Under some circumstances these locations are inadvisable for certain items based on accessibility codes. For example, a lower position for the hardware device is possible, when intended usage by small or handicapped persons which necessitates positioning the user handled items in other than these recommended locations. CAUTION - ADA and/or individual state building codes may have specific regulations pertaining to the height of operating elements of hardware items. It is imperative that special instructions be given to the frame manufacturer prior to the release for fabrication.

LOCATION OF HARDWARE PREPARATIONS

All hardware items except the upper and intermediate hinges are located by fixed dimensions from the bottom of frame to the centerline of the device.

BUTT HINGE

Three hinges are recommended for doors over 5 ft. 0 in. (1524 mm) and including 7 ft. 6 in. (2286mm) in height. Locate top hinge; Maximum 11.75 in. (298.4 mm) from head rabbet to centerline of Hinge. Bottom Hinge; Maximum 13 in. (330.2 mm) from bottom of frame to centerline of hinge. Intermediate hinge(s); Equally spaced between top and bottom hinges.

LOCKSET

Regardless of the type of lock or latch used, the centerline of the device in the door is located in reference to the centerline of the strike. Recommended centerline of strike is located between 38 in. - 42 in. (965 mm - 1067 mm) from bottom of frame. This will result in some variation in the knob/lever location, depending on the type of device used. If this is unacceptable, and the heights of the knob/lever are to be required at the same height, the frame manufacturer must be advised prior to the release for fabrication.

DEADLOCK

Locate centerline of cylindrical and mortised device strikes at maximum 48 in. (1219 mm) from bottom of frame. See above caution on height of operating elements.

EXIT DEVICE

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

PUSH-PULL HARDWARE

Locate the Centerline of the grip on a door pull or the centerline of push plate between 42 in. and 46 in., (between 1067 mm and 1168 mm) from the bottom of the frame.

ROLLER LATCH

Locate the centerline of the latch at 46 in. (1168 mm) from the bottom of the frame. Roller latches are generally used with dummy knobs or with push/ pulls.

HOSPITAL LATCH

Locate the centerline of the latch in accordance with manufacturers templated information.

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

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

RECOMMENDED GUIDE SPECIFICATIONS FOR HMMA HOLLOW METAL DOORS AND FRAMES

ANSI/NAAMM 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

ANSI/NAAMM 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

ANSI/NAAMM HMMA 840 — Installation and Storage of Hollow Metal Doors and Frames

ANSI/NAAMM HMMA 841 — Tolerances and Clearances for Commercial Hollow Metal Doors

HMMA 850 — Fire-Rated Hollow Metal Doors and Frames

HMMA 890 — Technical Summary

HMMA TECH NOTES

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 820 TN04 — Fire Protection Rating Versus Fire Resistant Rating

HMMA 840-TN01 — Painting Hollow Metal Products

HMMA 840-TN02 — Maintenance of Installed Hollow Metal Products