



PROCESS
INDUSTRY
PRACTICES

COMPLETE REVISION
April 2018

Architectural

**PIP ARS08710
Standard Steel Door Hardware
Supplier Specification**

Currently in preview, click buy full version

PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. In the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

© Process Industry Practices (PIP), Construction Industry Institute, The University of Texas at Austin, 3925 West Braker Lane (P4300), Austin, Texas 78759. PIP Member Companies and Subscribers may copy this Practice for their internal use. Changes or modifications of any kind are not permitted within any PIP Practice without the express written authorization of PIP. Authorized Users may attach addenda or overlays to clearly indicate modifications or exceptions to specific sections of PIP Practices. Authorized Users may provide their clients, suppliers and contractors with copies of the Practice solely for Authorized Users' purposes. These purposes include but are not limited to the procurement process (e.g., as attachments to requests for quotation, purchase orders or requests for proposals/contracts) and preparation and issue of design engineering deliverables for use on a specific project by Authorized User's client. PIP's copyright notices must be clearly indicated and unequivocally incorporated in documents where an Authorized User desires to provide any third party with copies of the Practice.

PUBLISHING HISTORY

April 1999	Issued	November 2012	Complete Revision
March 2002	Complete Revision	April 2018	Complete Revision
February 2008	Complete Revision		

Not printed with State funds



**PIP ARS08710
Standard Steel Door Hardware
Supplier Specification**

Table of Contents

1. Scope2

2. References2

 2.1 Process Industry Practices2

 2.2 Industry Codes and Standards2

 2.3 Government Regulations2

3. Definitions.....2

4. Requirements3

 4.1 General3

 4.2 Government Regulations4

 4.3 Submittals to Purchaser4

 4.4 Quality Assurance5

 4.5 Delivery, Storage, and Handling5

 4.6 Materials6

 4.7 Finishes10

 4.8 Keying10

1. Scope

This Practice provides supplier with requirements for all material, fabrication, finishes, and delivery of standard steel door hardware.

This Practice is written without reference to specific manufacturers, brand names, or model numbers. Industry standards from American National Standards Institute (ANSI) and Builders Hardware Manufacturers Association (BHMA) are used to specify performance and quality requirements for pieces of hardware.

Hardware for aluminum entrance doors or specialty doors is not included.

2. References

Applicable parts of the following Practices, industry codes and standards, and references shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)

- PIP ARS08111 - *Standard Steel Doors and Frames Supplier Specification*

2.2 Industry Codes and Standards

- American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
 - ANSI/BHMA A156.1 - *Butts and Finishes*
 - ANSI/BHMA A156.2 - *Bored and Preassembled Locks and Latches*
 - ANSI/BHMA A156.3 - *Exit Devices*
 - ANSI/BHMA A156.4 - *Door Controls – Closers*
 - ANSI/BHMA A156.5 - *Cylinders and Input Devices for Locks*
 - ANSI/BHMA A156.6 - *Architectural Door Trim*
 - ANSI/BHMA A156.8 - *Door Controls – Overhead Stops and Holders*
 - ANSI/BHMA A156.13 - *Mortise Locks*
 - ANSI/BHMA A156.15 - *Release Devices*
 - ANSI/BHMA A156.16 - *Auxiliary Hardware*
 - ANSI/BHMA A156.18 - *Materials and Finishes*
 - ANSI/BHMA A156.21 - *Thresholds*
 - ANSI/BHMA A156.22 - *Door Gasketing and Edge Seal Systems*
 - ANSI/BHMA A156.28 - *Recommended Practices for Mechanical Keying Systems*
- Door and Hardware Institute (DHI)
 - Standard: DHI – SFHS - *Sequence and Format for the Hardware Schedule*
- General Services Administration Federal Supply Service (GSA)
 - GSA A-A-2547 - *Cabinet, Key, and Identification Systems*

- National Fire Protection Association (NFPA)
 - NFPA 80 - *Standard for Fire Doors and Other Opening Protectives*

2.3 Government Regulations

- U.S. Department of Justice (DOJ) – Americans with Disabilities Act (ADA)
 - *2010 ADA Standards for Accessible Design*
 - *Guidance on the 2010 ADA Standards for Accessible Design*
- U.S. Department of Labor (DOL) – Occupational Safety and Health Administration (OSHA)

3. Definitions

contract documents: Any and all documents, including codes, studies, design drawings, specifications, sketches, practices, and data sheets, that purchaser has transmitted or otherwise communicated, either by incorporation or reference, and made part of the legal contract agreement or purchase order between purchaser and supplier.

hardware: Appurtenant fixtures for doors

inspector: Party responsible for verifying quality of all materials, installations, and workmanship furnished by supplier. Inspector shall be qualified by training and experience and hold certifications or documentation of their qualifications.

manufacturer: Party who produces and warrants performance of products, materials, and/or items provided in accordance with contract documents. Products, materials, and/or items are manufactured in a controlled process using standard codes, specifications, tests and possibly include shop drawings to assist in proper application, installation and/or use. The term manufacturer shall apply also to manufacturer's subcontractor(s) and/or vendor(s).

owner: Party who has authority through ownership, lease, or other legal agreement over buildings wherein hardware will be used.

purchaser: Party who awards contract to supplier. Purchaser may be owner or owner's authorized agent.

supplier: Party responsible for providing hardware in accordance with contract documents.

4. Requirements

4.1 General

- 4.1.1 Extent of hardware required is specified in contract documents.
- 4.1.2 Coordinate hardware with requirements of doors, frames, and related work to ensure proper size, thickness, hand function, and finish of hardware.
- 4.1.3 Coordinate work specified in this Practice with work specified in *PIP ARS08111*.
- 4.1.4 Provide finish hardware for each opening, which is in accordance with contract documents and applicable codes and provides intended service.
- 4.1.5 Obtain each type of hardware (e.g., latchsets, locksets, hinges, closers) from a single manufacturer where possible.