



PROCESS  
INDUSTRY  
PRACTICES

COMPLETE REVISION  
January 2020

**Architectural**

**PIP ARS13120**  
**Pre-Engineered Metal Buildings Specification**

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## 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. Determination concerning fitness for purpose and particular matters or application of the Practice to a 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. To 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.

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# PIP ARS13120 Pre-Engineered Metal Buildings Specification

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## 1. Scope

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This Practice provides requirements for design, materials, fabrication, and erection of pre-engineered metal buildings, including exterior doors, windows, louvers and ventilators. This Practice does not include buildings to be designed for blast loads.

## 2. References

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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, unless otherwise noted. Short titles are used herein where appropriate.

### 2.1 Process Industry Practices (PIP)

- PIP ARS08111 - *Standard Steel Doors and Frames Supplier Specification*
- PIP ARS08112 - *Standard Steel Doors, Frames and Related Hardware Installation Specification*
- PIP ARS08710 - *Standard Steel Door Hardware Supplier Specification*
- PIP CVC01017 - *Plant Site Data Sheet*
- PIP CVC01018 - *Project Data Sheet*
- PIP STC01015 - *Structural Design Criteria*

### 2.2 Industry Codes and Standards

References shown below are U.S. standards. For buildings to be erected outside of the United States, where appropriate national or local standards are available, they shall be substituted for the standards shown below as approved by purchaser. If there is no appropriate national or local standard, the U.S. standard shall be followed.

- Air Movement and Control Association International (AMCA)
  - AMCA 500-L - *Laboratory Methods for Testing Louvers for Rating*
- American Architectural Manufacturers Association (AAMA)
  - AAMA 561/02 - *Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals*
  - AAMA/WDMA/CSA 101/I.S.2/A440 - *North American Fenestration Standard/Specification for Windows, Doors, and Skylights*
- American Institute of Steel Construction (AISC)
  - ANSI/AISC 303 - *Code of Standard Practice for Steel Buildings and Bridges*
  - ANSI/AISC 360 - *Specification for Structural Steel Buildings*
  - AISC 326 - *Detailing for Steel Construction*
- American Iron and Steel Institute (AISI)
  - AISI S100 - *North American Specification for the Design of Cold-Formed Steel Structural Members*