

Process Industry Practices
Structural

PIP STF05501
Fixed Ladders and Cages

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. 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 by the responsible Function Team and will be reviewed every 5 years. This Practice will be revised, reaffirmed, or withdrawn. Information on whether this Practice has been revised may be found at www.pip.org.

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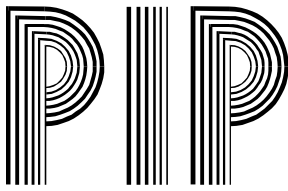
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1. Introduction

1.1 Purpose

This Practice provides the fabricator and erector with a standard fixed ladder and cage design to be used in process industry facilities. This Practice also provides process industry companies with design guide information to be used in specifying and locating fixed ladders and cages.

1.2 Scope

This Practice shows the design details for fabrication and installation of typical Occupational Safety and Health Administration-regulated ladders for structures, miscellaneous platforms, and vessels for regular operational access/egress.

These details are intended to be issued to the fabricators supplying these ladders and to the erectors for use in installation.

Any conflicts or inconsistencies between this Practice, the design drawings, or other contract documents shall be brought to the attention of the buyer for resolution.

2. References

Applicable requirements in the following PIP Practices, codes and standards, and government regulations 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 will be used herein when appropriate.

2.1 Process Industry Practices (PIP)

- PIP STS05120 - *Fabrication of Structural and Miscellaneous Steel*
- PIP STS05130 - *Erection of Structural and Miscellaneous Steel*

2.2 Industry Codes and Standards

- American National Standards Institute (ANSI)
 - ANSI A14.3 - *American National Standard for Ladders—Fixed—Safety Requirements*
- American Society of Testing and Materials (ASTM)
 - ASTM A36/A36M - *Standard Specification for Carbon Structural Steel*
 - ASTM A123 - *Standard Specification for Zinc (Hot Galvanized) Coatings on Products Fabricated from Rolled, Pressed, and Forged Steel Shapes, Plates, Bars, and Strips*
 - ASTM A307 - *Standard Specification for Carbon Steel Externally Threaded Standard Fasteners*
 - ASTM A385 - *Standard Practices for Providing High-Quality Zinc Coatings (Hot-Dip)*