



PROCESS
INDUSTRY
PRACTICES

TECHNICAL CORRECTION
January 2017

Structural

PIP STF05511
Fixed Industrial Stairs

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 to revision at any time.

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1. Scope

This Practice provides the fabricator and erector with a standard fixed industrial stair 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 designing fixed industrial stairs.

This Practice contains the design details for fabrication and installation of typical OSHA-regulated stairs for open structures and miscellaneous platforms for regular operational access/egress. Details comply with NFPA 101 - *Life Safety Code for Industrial Occupancies*.

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

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

Comment: As of the effective date of January 17, 2017, this Practice is no longer fully compliant with new *OSHA Regulations 29 CFR 1910 Subpart D – Walking-Working Surfaces* that were published on November 18, 2016. This Practice will need to be supplemented or modified by the user to be in full compliance with the new OSHA regulations until the complete revision of this Practice incorporating the changes is published by PIP.

2. References

Applicable requirements in the following PIP Practices, codes, and standards 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 Specification*
- PIP STS05130 - *Erection of Structural and Miscellaneous Steel Specification*
- PIP STF05520 - *Pipe Railing for Walking and Working Surface Details*
- PIP STF05521 - *Angle Railing for Walking and Working Surface Details*

2.2 Industry Codes and Standards

- American National Standards Institute (ANSI)/American Society of Safety Engineers (ASSE)
 - ANSI A1264.1 - *Safety Requirements for Workplace Floor and Wall Openings, Stairs, and Railing Systems*
- American Society of Testing and Materials (ASTM)
 - ASTM A307 - *Standard Specification for Carbon Steel Externally Threaded Standard Fasteners*
- National Fire Protection Association (NFPA)
 - NFPA 101 - *Life Safety Code*