



PROCESS  
INDUSTRY  
PRACTICES

COMPLETE REVISION  
*December 2019*

**Structural**

**PIP STF05520**  
**Pipe Guards and Handrails Fabrication Details**

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### **PUBLISHING HISTORY**

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## PIP STF05520 Pipe Guards and Handrails Fabrication Details

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## 1. Scope

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This Practice provides requirements and details for fabrication of pipe guards for walking and working surfaces and pipe guards with pipe handrails for standard stairs used for access and egress in industrial facilities.

## 2. References

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Applicable parts of the following Practices 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 will be used herein where appropriate.

### 2.1 Process Industry Practices (PIP)

- PIP STF05501 - *Fixed Ladders Fabrication Details*
- PIP STF05511 - *Standard Stairs Fabrication Details*
- PIP STF05530 - *Grating Fabrication Details*
- PIP STS05120 - *Structural and Miscellaneous Steel Fabrication Specification*

### 2.2 Industry Codes and Standards

- American Institute of Steel Construction (AISC)
  - ANSI/AISC 303-16 - *Code of Standard Practice for Steel Buildings and Bridges*
- American Society of Mechanical Engineers (ASME)
  - ASME B16.9 - *Factory-Made Wrought Butt Welding Fittings*
- ASTM International (ASTM)
  - ASTM A36/A36M - *Standard Specification for Carbon Structural Steel*
  - ASTM A53/A53M - *Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless*
  - ASTM A507 - *Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60,000 SI Tensile Strength*
  - ASTM A500/A500M - *Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes*

### 2.3 Government Regulations

The following government document has been used as a reference in the development of this Practice.

- U.S. Department of Labor (DOL) - Occupational Safety and Health Administration (OSHA)
  - *Regulations 29 CFR 1910 Subpart D - Walking-Working Surfaces - Final Rule Published in Federal Register, Volume 81, No. 223, on November 18, 2016*