

**Summary of Substantive Changes  
Between the 2007 and the 2011 Editions of  
ASTM F1281, “Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene  
(PEX-AL-PEX) Pressure Pipe”**

**General:** There are technical changes to the standard. The change that might affect current listings is an increase in the minimum thickness of the inner PEX layer as noted in Table 2. Also, the scope of the standard was expanded to include NPS-7/8.

Table 1, Outside Diameters, Aluminum Thickness, and Tolerances for PEX-AL-PEX:

- Added NPS-7/8
- Decreased minimum outside diameters for NPS-1-1/4 and NPS-1-1/2
- Increased the tolerance on thicknesses for NPS-½ and NPS-5/8

Table 2, Wall Thickness for PEX-AL-PEX Composite Pipe:

- Added NPS-7/8
- Increased the minimum thicknesses of the inner PEX layer for NPS-1 and NPS-1-½
- Decreased the minimum thicknesses of the inner PEX layer thicknesses for NPS-5/8, NPS-1-1/4, and NPS-2

Table 4, Minimum Pipe Ring Strengths and 23 °C (73.4°F) Burst Pressure of PEX-AL-PEX Composite Pipe:

- Added NPS-7/8

Table 5, Minimum Sustained Pressure for PEX-AL-PEX Composite Pipe:

- Added NPS-7/8

Table A2.1, Minimum Hydrostatic Burst Strength Requirements for Connector and PEX/AL/PEX Pipe Assemblies:

- Added NPS-7/8