

**Summary of Substantive Changes  
Between the 2009a and 2011 Editions of  
ASTM C1540, “Heavy Duty Shielded Couplings  
Joining Hubless Cast Iron Soil Pipe and Fittings”**

**General:** There were technical changes to the standard; however, they are not certification related; they are QC related, required during the manufacturing process, and do not affect current listings. The changes include new requirements for the gasket material and removal of a third party certification or inspection requirement.

Section 5.1: The test method and material requirements were added as follows:

*The gasket shall be tested in accordance with Test Methods D3677 and be manufactured from a properly vulcanized virgin compound where the primary elastomer is polychloroprene (neoprene).*

This is a manufacturer’s QC test, not a certification test, and D3677 was referenced in Section 5.6.4 of the 2009a edition.

Section 5.2: Text was added to clarify testing requirements:

*The gaskets shall be tested by the gasket manufacturer for compliance to Specification C564 during the course of production not to exceed 24 hours for each size of gasket being produced. These tests shall be performed at the manufacturer location during the time of production.*

Section 7.1: Changed the allowable time required to perform deflection and shear tests:

*The deflection, shear, and unrestrained hydrostatic tests shall be performed on each size and type coupling utilizing first article approval as required not to exceed 30 days. The deflection and shear tests shall be performed on each size and type coupling utilizing first article approval as required not to exceed 120 days. The unrestrained hydrostatic test shall be performed on randomly selected couplings of each size during the course of production using first article selection not to exceed 30 days.*

Section A1.1.2: Removed the following third party certification or inspection requirement:

~~*Random inspections of the manufacturer’s finished goods inventory shall be conducted during each inspection. These inspections shall include a dimensional and marking inspection of not less than 10 of these pieces of different size couplings in inventory during each inspection. Each gasket used as part of a coupling shall be subject to the requirements of the applicable coupling standard.*~~