



Flexible Transition Couplings Submittal Sheet



- 1.0 **Indiana Seal Flexible Transition and Shear Ring Couplings** are manufactured from elastomeric materials that comply with the applicable requirements of ASTM C 1173 Standard Specification for Flexible Transition Couplings.
- 2.0 The **purpose** of Indiana Seal Flexible Transition Couplings is to form a leak proof joint between sections plain end pipe or fittings of the same or different materials such as cast iron, clay, ductile iron, concrete and plastic pipe in sizes ranging from 1 ¼” up to 30” with larger sizes available upon request.
- 3.0 **Indiana Seal Compression Seals** are manufactured from flexible PVC materials in sizes from 1½” to 8”. The compression seals with their unique ribbed design eliminate the need for mortar or cement at the sewer joint and provide a lasting bond through years of natural ground movement. The pliability of these compression seals allows them to flex during freezing and thawing periods without damaging the watertight integrity at the joint.
- 4.0 **Stainless Steel Hose Clamps** Indiana Seal hose clamps are constructed of series 300 premium grade stainless steel, including the housing and screw to ensure a positive seal ranging in size from 1 1/16” through 21”. The stainless steel hose clamps shall be tested to withstand the required minimum torque of 60 in-lbs. and maximum free running torque of 4 in-lbs. as to the applicable requirements in ASTM C 1173.
- 5.0 **Stainless Steel Shear Ring** Indiana Seal shear rings are manufactured from all series 300 premium grade stainless steel construction to ensure extra rigidity and strength, and provide protection in even the most unstable ground conditions. The shear rings are available for several types of piping, in most popular sizes. They are available in thickness of 0.012”. Indiana Seal shear ring couplings are manufactured to conform to the functional requirements of ASTM C 1173.
- 6.0 **Deflection Sealing Resistance** Indian Seal Flexible Transition and Shear Ring couplings shall be hydrostatically pressurized to 4.3 psi. One pipe shall be rigidly supported with the opposite end raised 1” per lineal foot of pipe. The pressure shall be maintained for 5 minutes and show no visible leakage as to the applicable requirements on ASTM C 1173.
- 7.0 **Shear Testing** The Shear Ring coupling assembly shall be subjected to a load of 50 lbs. per inch of nominal diameter, applied to non-supported pipe 6” from the edge of the coupling. There shall be no visible leakage or displacement of more than 3/8” from true alignment when an internal pressure 4.3 psi is applied as to the applicable requirements of ASTM C 1173.
- 8.0 **Durometer Hardness Testing** Indiana Seal Flexible Transition Couplings shall have a shore “A” durometer (hardness) of 50-75 as to the applicable requirements of ASTM C 1173 and ASTM Test Method D 2240.
- 9.0 **Marking** Indiana Seal Flexible Transition Couplings shall be marked with the manufacturers name or trademark, or both. The type and size of pipe for which the coupling is intended of the manufacturer’s product number shall be marked on or attached to each coupling as to the applicable requirements of ASTM C 1173.
- 10.0 The **material** used to manufacture these same couplings is elastomeric Polyvinyl Chloride that complies with the applicable standards of ASTM C 1173 and the couplings have a maximum recommended non-consistent operating temperature of 140 F.