



ASTM D5961 Testing Fixture

The bearing strength of a 1.5" wide test specimen assembly containing one or two $\frac{1}{4}$ " diameter fasteners is to be determined.

The test sample for procedure B is composed of two identical plates secured together using one or two fixing elements of the central line, with a doubler on each end to minimize bending due to eccentricity of the applied force.



ASTM D5961 TESTING FIXTURE - DRAWING

This support device can be used both with tensile or compressive load, to stabilize the unit and further reduce bending effects.

Sources of Additional Information:

- ASTM Standard E 399-12e3, "Plane-Strain Fracture Toughness of Metallic Materials," American Society for Testing and Materials,

West Conshohocken, Pennsylvania (first issued in 1970).

- ASTM Standard D 5045-99 (2007e1), "Plane-Strain Fracture Toughness and Strain Energy Release Rate of Plastic Materials," American Society for Testing and Materials, West Conshohocken, Pennsylvania (first issued in 1990).
- ASTM Standard E 1922-04 (2010)e1, "Translaminar Fracture Toughness of Laminated Polymer Matrix Composite Materials," American Society for Testing and Materials, West Conshohocken, Pennsylvania (first issued in 1997).
- ASTM Standard E 1290-08e1, "Crack-Tip Opening Displacement (CTOD) Fracture Toughness Measurement," American Society for Testing and Materials, West Conshohocken, Pennsylvania (first issued in 1989).
- ASTM Standard E 1820-13, "Measurement of Fracture Toughness," American Society for Testing and Materials, West Conshohocken, Pennsylvania (first issued in 1996).
- ASTM Standard E 647-13ae1, "Measurement of Fatigue Crack Growth Rates," American Society for Testing and Materials, West Conshohocken, Pennsylvania (first issued in 1978).