

This fixture is used for pull-through strength, i.e., the strength of the plates the fastener is holding together.

The test specimen consists of two 1.5" square plates connected at their centers by the desired fastener being tested. To maintain proper rotational alignment of the two halves of the fixture there are two pins and indexing holes.

When a compressive force is applied to the assembled fixture, the fastener becomes loaded in tension. The force required to cause the fastener to pull through a plate is the desired result.

Sources of Additional Information:

- MIL-STD-1312-8A, "Fastener Test Methods, Method 8 - Tensile Strength," Department of Defense, Washington, DC, October 1984.
- MIL-HDBK-17-1E, Polymer Matrix Composites, Volume 1 - Guidelines for Characterization of Structural Materials, 1997, pp. 7-36 to 7-44.