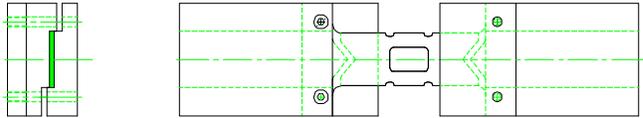
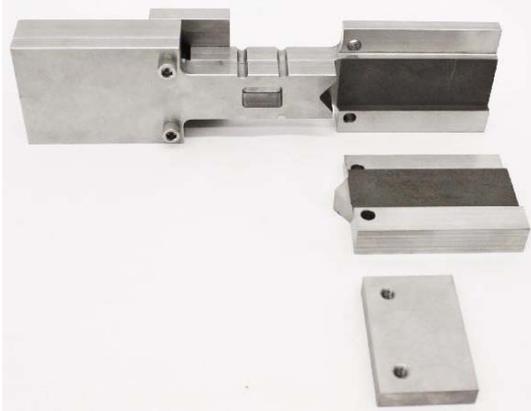


OPEN HOLE COMPRESSION FIXTURE (CS)



Specimen: Width 1.5"
 Length 12"

Fixture: Construction High strength steel with protective finish
 Temperature -120 to 250°F (-85 to 122°C)
 Mounting Platen to platen (platens not included)
 Capacity 50,000 lbs
 Weight 15 lbs
 Dimensions 3" x 2" x 12"
 Standard Manufactured in accordance with ASTM D5766, D6484 and D6742

Model No. ASTM.D6742.21 - Open Hole Compression Test Fixture

Open access to the specimen through a cut out in the fixture halves allows observation of the specimen as the test progresses. The Open-Hole-Compression fixture has a 1.5" by 12" specimen configuration. Temperature range: -120 to 250°F (-85 to 122°C). Constructed of high strength steel with protective finish in accordance with ASTM D5766, D6484, D6742 and BSS 07260.

MODEL NO. ASTM.D6742.21 **ASTM, OPEN, HOLE, COMPRESSIVE,**

ACCESSORIES

Upper and Lower fixture attachment could be supported on a platen or flat surface of the test machine.

(Common adapter sizes include:)

Model No. PLAT.RF061.10 - 6" Diameter Round Fixed Compression Platen

Model No. PLAT.RA061.10 - 6" Diameter Round Articulating Compression Platen

Model No. PLAT.SF061.10 - 6" Square Fixed Compression Platen

Model No. PLAT.SA061.10 - 6" Square Articulating Compression Platen

Model No. M03S36 - 1.25" Male Clevis (Type D) to 1" -14 Threaded Stud

SPARE PARTS

Contact us for spare or replacement parts

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/D6742.htm>

ASTM 6742/ D6742M- 12

Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates

1.1 This practice provides instructions for modifying open-hole tension and compression test methods to determine filled-hole tensile and compressive strengths. The composite material forms are limited to continuous-fiber reinforced polymer matrix composites in which the laminate is both symmetric and balanced with respect to the test direction. The range of acceptable test laminates and thicknesses are described in 8.2.1.

1.2 This practice supplements Test Methods (for tension testing) and D6484/D6484M (for compression testing) with provisions for testing specimens that contain a close-tolerance fastener or pin installed in the hole. Several important test specimen parameters (for example, fastener selection, fastener installation method, and fastener hole tolerance) are not mandated by this practice; however, repeatable results require that these parameters be specified and reported.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3.1 Within the text the inch-pound units are shown in brackets.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Extracted, with permission from D6742, Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. A copy of the complete standard may be purchased from ASTM International, www.astm.org.

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