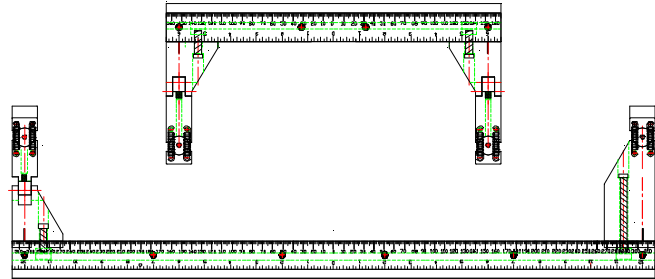


## SANDWICH BEAM FLEXURE FIXTURE WITH LOADING PADS AND UP TO 24" SPANS (CS)



Specimen:	Width	Up to 4"
	Thickness	Up to 1.5"
	Length	14" to 26"
Fixture:	Construction	High strength steel with protective black oxide finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	1" -14 threaded couplings
	Capacity	2,500 lbs
	Weight	114 lbs approximately
	Dimensions	Assembled - 25" x 4" x 15.3" (plus specimen thickness)
	Standard	Manufactured in accordance with ASTM C393, and D5467

Model No. ASTM.D5467.10 - Four Point Flexure Fixture. Specimen support spans from 1/2" to 24". Adjustable four point loading head with loading spans from 1/2" to 6". Loading roller points will accommodate specimens up to 4.0" wide. The fixture is constructed from high strength steel with a protective black oxide finish in accordance with ASTM C393 and D5467.

**Support Base** - 4" wide with a T-slot running the length of the base. The upper and lower surfaces are ground flat and parallel. The support block separation is measured along a center finding scale located on the front surface of the support base. The base is used on a platen (not included) or with the 1" -14 mounting threads.

**Specimen Supports** - 4" wide by 4" tall with alignment rails which fit in the T-slotted support base. The supports are supplied with 1"Ø support pins and pads, which are held in alignment grooves with O-rings. The center position of the loading pin is indicated by a scribe line which runs down the side of the support to the center finding scale. The supports are free to slide anywhere along the support base and may be reversed for short and long spans.

**8" Four Point Loading Head** - 4" wide by 8" long with two adjustable loading pin supports. The 8" long loading rail allows the loading anvils to be adjusted to any loading span from 1/2" to 6". The anvils are channeled to insure proper alignment to the loading rail. The anvils are supplied with 1"Ø loading pins and pads, which are held in alignment grooves with O-rings. The center position of the loading pins are scribed in the anvils, which run along a center finding scale on the loading rail. Supplied with 1" -14 loading coupling.

# **MODEL NO. ASTM.D5467.10**

## **ASTM, COMPRESSIVE, COMPRESSION,**

### **ACCESSORIES**

#### **Upper and lower fixture attachment is supplied with 1" -14 female coupling. (Common adapter sizes include:)**

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

Model No. S42S36 - 1.25" -12 to 1" -14 Threaded Step Stud

Model No. S48S36 - 1.5" -12 to 1" -14 Threaded Step Stud

Model No. S60S36 - 2" -12 to 1" -14 Threaded Step Stud

Model No. LN36 - Threaded Locking Nut with Knurled OD

### **SPARE PARTS**

SPA.D5467.1001 - Set of (4) 1" Diameter Rollers

SPA.D5467.1002 - Set of (2) upper and (2) Lower Aluminum Loading Pads

SPA.D5467.1003 - Set of (4) Springs for Upper Articulating Loading Block

SPA.D5467.1004 - Set of (4) Spring Pins to Hold Springs on Upper Articulating Loading Block

### **REFERENCE DOCUMENT AND TEST METHOD SCOPE:**

<http://www.astm.org/Standards/D5467.htm>

ASTM D5467 / D5467M - 97(2010)

Standard Test Method for Compressive Properties of Unidirectional Polymer Matrix Composites Using a Sandwich Beam

1.1 This test method covers the in-plane compressive properties of polymer matrix composite materials reinforced by high-modulus fibers in a sandwich beam configuration. The composite material forms are limited to continuous-fiber composites of unidirectional orientation. This test procedure introduces compressive load into a thin skin bonded to a thick honeycomb core with the compressive load transmitted into the sample by subjecting the beam to four-point bending.

1.2 This procedure is applicable primarily to laminates made from prepreg or similar product forms. Other product forms may require deviations from the test method.

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.

Extracted, with permission, from ASTM D5467 Standard Test Method for Compressive Properties of Unidirectional Polymer Matrix Composites Using a Sandwich Beam, 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](http://www.astm.org).