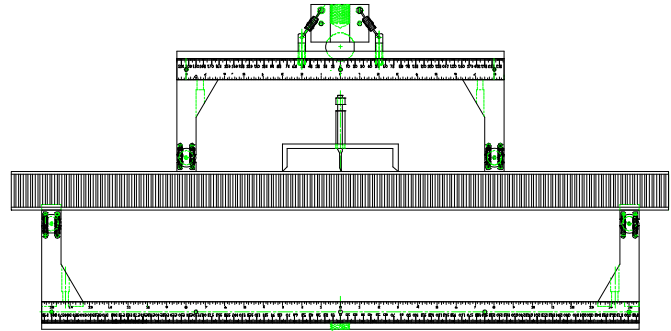


## SPAN SANDWICH BEAM FLEXURE / SHEAR FIXTURE (CS) - UP TO 30" SPANS AND 5" WIDE



Specimen:	Width	Up to 5"
	Thickness	Any thickness
	Length	Up to 30"
Fixture:	Construction	High strength steel with protective finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	1" -14 threaded couplings
	Capacity	2,500 lbs (11.1 kN)
	Weight	170 lbs approximately
	Dimensions	32" x 6" x 16"
	Standard	Manufactured in accordance with ASTM C393

Model No. ASTM.C0393.17 - 30" Span Sandwich Beam Flexure / Shear Fixture (CS) - 5" Wide Specimen support spans from 6" to 30".

Adjustable four point loading head with loading spans from 2" to 16". Loading roller points will accommodate specimens up to 5" wide. The fixture is constructed from high strength steel with a protective black oxide finish in accordance with ASTM C393, D7249 and Mil Std. 401B.

**Support Base** - 31" long by 5" wide with (2) T-slots 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** - 5" wide by 4" tall with alignment rails which fit in the T-slotted support base. The supports are supplied with 1" diameter support pins and pads, which are held in alignment grooves with springs. 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.

**Four Point Loading Head** - 5" wide by 17" long with two adjustable loading pin supports. The 17" long loading rail allows the loading anvils to be adjusted to any loading span from 2" to 16". The anvils are channeled to ensure proper alignment to the loading rail. The anvils are supplied with 1" diameter loading pins and pads held in alignment with springs. The center position of the loading pins are scribed on the anvils, which run along a center finding scale on the loading rail. Supplied with 1" -14 loading coupling.

## **MODEL NO. ASTM.C0393.17**

### **ASTM, SANDWICH BEAM, FLEXURE, SHEAR,**

#### **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**

ACC.C0393.1701 - Set of (4) 1" Diameter Rollers

ACC.C0393.1702 - Set of (2) upper and (2) Lower Steel Loading Pads

ACC.C0393.1703 - Set of (4) Springs for Upper Articulating Loading Block

ACC.C0393.1704 - Set of (4) Spring Pins for Springs on Articulating Loading Block

ACC.C0393.1705 - Bridge Extensometer Bracket

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

SCOPE: <http://www.astm.org/Standards/C393.htm>

ASTM C393/C393M-11e1

Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure

1.1 This test method covers determination of the core shear properties of flat sandwich constructions subjected to flexure in such a manner that the applied moments produce curvature of the sandwich facing planes. Permissible core material forms include those with continuous bonding surfaces (such as balsa wood and foams) as well as those with discontinuous bonding surfaces (such as honeycomb).

1.2 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.

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

1.3 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 ASTM C393 Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure, 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)