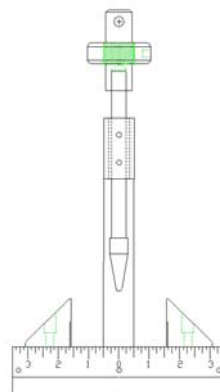


SHORT BEAM SHEAR AND THREE POINT FLEXURE FIXTURE (ADJUSTABLE SUPPORTS)



Specimen:	Width	Up to 1.5"
	Thickness	Up to 2"
	Length	Up to 6" span
Fixture:	Construction	Stainless steel
	Temperature	-240 to 600°F (-152 to 318°C)
	Mounting	Top: 12mm male clevis
		Bottom: 1/2" -20 threaded coupling
	Capacity	2,000 lbs (8.8kN)
	Weight	15 lbs
	Dimensions	Assembled - 2.3" x 7" x 11.4"
	Standard	Manufactured in accordance with ASTM D2344 and ISO 14130

Model No. ASTM.D2344.10 - Short Beam Shear and Three Point Flexure Fixture

The fixture comes with a three point quick snap on/off loading head. Specimen supports are free-moving slides. Three point loading head is supplied with a fixed 1/8" radius (1/4" diameter) loading nose. Loading head is guided by an alignment slot and double high temperature linear bearings and comes with a 12mm male clevis adapter for mounting purposes. Fixture is constructed from stainless steel in accordance with ASTM D2344, ISO 14125 and ISO 14130.

Specimen Supports - 1.5" wide by 1.5" tall with alignment rails which fit in the T-slotted support base and have a span of any size from 0.125" to 6". The fixture is supplied with 1/16" radius (1/8" diameter) supports. The center position of the support diameter 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. The supports have a specimen center tab for accurate specimen alignment.

Support Base - 7" long by 1.5" 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 measured along a center finding scale located on the the front surface of the support base. Includes 1/2" -20 threaded coupling for mounting purposes.

MODEL NO. ASTM.D2344.10

ASTM, COMPOSITE, SHEAR, SHORT, BEAM,

ACCESSORIES

Model No. MODI.D2344.1001 - Modify fixture with Lead Screw and Supports

Model No. ACC.D2344.1015 - Set of (2) Flat Supports for Curved Specimen

SPARE PARTS

Model No. SPA.D2344.1001 - Replacement Bearings

Model No. SPA.D2344.1002 - Replacement Shaft

Model No. SPA.D2344.1003 - Replacement Set of (2) 1.5mm R Supports

Model No. SPA.D2344.1004 - Replacement 12mm Male Clevis with Set Screw

Model No. SPA.D2344.1005 - Replacement 3mm R Loading Nose

Model No. SPA.D2344.1010 - Replacement of Bottom Rail Only

Model No. SPA.D2344.1011 - Replacement of Guide Rail Only

Model No. SPA.D2344.1040 - Extra Set of (2) Alignment Tabs for Specimen Supports

Model No. SPA.14125.1001 - Extra Loading Nose - 5mm R

Model No. SPA.14125.1002 - Extra Set of (2) Supports - 2mm R

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

SCOPE: <http://www.astm.org/Standards/D2344.htm>

ASTMD2344/D2344M-13

Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates

1.1 This test method determines the short-beam strength of high-modulus fiber-reinforced composite materials. The specimen is a short beam machined from a curved or a flat laminate up to 6.00 mm [0.25 in.] thick. The beam is loaded in three-point bending.

1.2 Application of this test method is limited to continuous- or discontinuous-fiber-reinforced polymer matrix composites, for which the elastic properties are balanced and symmetric with respect to the longitudinal axis of the beam.

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 must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

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 ASTM D2344 Standard Test Methods of Static Tests of Lumber in Structural Sizes, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19482. A copy of the complete standard may be purchased from ASTM International, www.astm.org.

Material Testing Technology

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