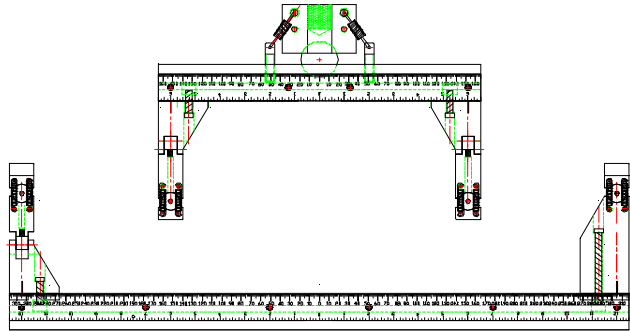


24" SPAN SANDWICH LONG BEAM 3 AND 4 POINT FLEXURE FIXTURE FOR UP TO 4" WIDE (CS)



Specimen:	Width	Up to 4"
	Thickness	Any
	Length	6" 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 (11.1 kN)
	Weight	114 lbs approximately
	Dimensions	Assembled - 25" x 4" x 15.3" (plus specimen thickness)
	Standard	Manufactured in accordance with ASTM C393, D5467, D7249, and D7250

Model No. ASTM.D7249.10 - 24" Span Sandwich Long Beam 3 & 4 Point Flexure Fixture For Up To 4" Wide (CS)
Specimen support spans from 6" to 24". Adjustable four point loading head with loading spans from 2" to 12". Loading roller points will accommodate specimens up to 4" wide. The fixture is constructed from high strength steel with a protective black oxide finish in accordance with ASTM C393, D5467, D7249, and D7250.

Support Base - 25" long by 4" 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 threaded couplings.

Specimen Supports - 4" 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.

Three & Four Point Loading Head - 4" wide by 13" long with two adjustable loading pin supports. The 13" long loading rail allows the loading anvils to be adjusted to any loading span from 2" to 12". 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. The 3 and 4 point loading head articulates on a ball socket. Supplied with 1" -14 loading coupling.

MODEL NO. ASTM.D7249.10

ASTM, FACING, SANDWICH, CONSTRUCTIONS,

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

Model No. SPA.D7249.1001 - Set of (4) 1" Diameter Rollers

Model No. SPA.D7249.1002 - Set of (2) upper and (2) Lower Steel Loading Pads

Model No. SPA.D7249.1003 - Set of (4) Springs for Upper Articulating Loading Block

Model No. SPA.D7249.1004 - Set of (4) Spring Pins to Hold Springs on Upper Articulating Loading Block

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/D7249.htm>

ASTM D7249 / D7249M - 12e1

Standard Test Method for Facing Properties of Sandwich Constructions by Long Beam Flexure

1.1 This test method covers determination of facing properties of flat sandwich constructions subjected to flexure in such a manner that the applied moments produce curvature of the sandwich facing planes and result in compressive and tensile forces in the facings. 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.

Note 1—Alternate procedures for determining the compressive strength of unidirectional polymer matrix composites materials in a sandwich beam configuration may be found in Test Method D5467/D5467M.

Extracted, with permission from D7249, Standard Test Method for Facing Properties of Sandwich Constructions by Long 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.