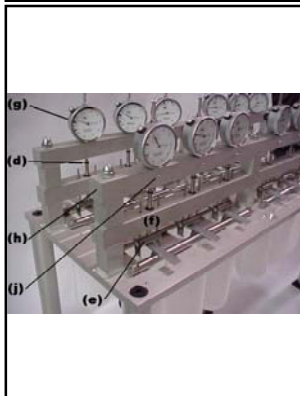


## THREE POINT FLEXURAL CREEP STAND



Model No. ASTM.D2990.21 - 12 Position Flexure Creep Testing Stand for flexural creep testing in accordance with ASTM D2990 and other creep testing methods. Fixture includes 0.500" diameter flexure supports. Items supplied with the test stand include (12) 0.5" diameter loading pins, (12) 1 inch displacement dial gauges (0.001" graduations), (12) loading shot weight cups with center mounted hanging hooks, vibration isolation pad for each leg of the stand, one specimen alignment tool, 10 pounds of loading shot. The stand is constructed from aluminum and stainless steel in accordance with ASTM D2990.



d- Anvil Displacement Point  
e- 3 Point Loading Nose  
f- Guide Bar  
g- Dial Gage  
h- Dial Gage Support Bar  
j - Set Screw for Adjustments

Specimen lower support span Fixed 1", 2" or 4"  
Loading supports 1/2" diameter loading pins  
Three point loading head 1/2" diameter loading pin - Linear bearing guided  
Specimen widths up to 1"  
Maximum Displacement of midspan 1"  
Capacity 5 lbs flexure load per station  
Platform Table or floor mount (Table not included)  
Overall Size 18" deep by 36" wide by 20" tall  
Temperature Range -20 to 120°F (-29 to 49°C)  
Construction Aluminum and stainless steel.



(2) 1/2" diameter supports  
1/2" Loading nose  
Specimen  
Loading Bracket  
Alignment bearing

Specimen:  
Any width up to 1"  
Typical length 5.0" for a 2" span  
Typical thickness 0.125" for 2" span

Options:  
1" or 4" spans  
Different diameter supports and noses



Items included w/ D2990.21  
(12) Room Temp. 1" dial gages  
(12) Weight Trays  
(1) Specimen Alignment Tool  
(48) 1.0 lb Calibrated Weights  
(12) 1/2 lb Calibrated Weights  
10 lbs Steel Shot  
(5) Isomode Vibration isolation pads

6 position stand  
3 position stand

Options: Extra Slotted Weights  
SCW.0005 - 1/2 Pound Slotted Creep Stand Weight

## **MODEL NO. ASTM.D2990.21**

### **ASTM, MISC, CREEP**

Model No. ASTM.D2990.21 - 12 Position Flexure Creep Testing Stand for flexural creep testing in accordance with ASTM D2990 and other creep testing methods. The 0.500" diameter flexure supports are adjustable to fixed 1.0", 2.0" and 4.0" span. Items supplied with the test stand include (12) 0.5" diameter loading pins, (12) 1 inch displacement dial gauges (0.001" graduations), (12) loading shot weight cups with center mounted hanging hooks, vibration isolation pad for each leg of the stand, one specimen alignment tool, 10 pounds of loading shot. The stand is constructed from aluminum and stainless steel in accordance with ASTM D2990.

Specimen lower support span Fixed 1", 2" or 4"

Loading supports 1/2" diameter loading pins

Three point loading head 1/2" diameter loading pin - Linear bearing guided

Specimen widths up to 1.0"

Maximum Displacement of midspan 1.0"

Capacity 10 lbs flexure load

Platform Table or floor mount (Table not included)

Overall Size 18" deep by 36" wide by 20" tall

Temperature Range -20 to 120°F (-29 to 49°C)

Construction Aluminum and stainless steel.

<http://www.astm.org/Standards/D2990.htm>

ASTMD2990-09

Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics

1.1 These test methods cover the determination of tensile and compressive creep and creep-rupture of plastics under specified environmental conditions (see 3.1.3).

1.2 While these test methods outline the use of three-point loading for measurement of creep in flexure, four-point loading (which is used less frequently) can also be used with the equipment and principles as outlined in Test Methods D 790.

1.3 For measurements of creep-rupture, tension is the preferred stress mode because for some ductile plastics rupture does not occur in flexure or compression.

1.4 Test data obtained by these test methods are relevant and appropriate for use in engineering design.

1.5 The values stated in SI units are to be regarded as the standard. The values in parentheses are for information only.

1.6 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. A specific warning statement is given in 6.8.2.

Note 1-This standard and ISO 899 Parts 1 and 2 address the same subject matter, but differ in technical content (and results cannot be directly compared between the two test methods). ISO 899 Part 1 addresses tensile creep and creep to rupture and ISO 899 Part 2 addresses flexural creep. Compressive creep is not addressed in ISO 899.

Extracted, with permission, from ASTM D2990 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](http://www.astm.org).

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