

## Composites Test Fixtures

Two Rail Shear, ASTM D 4255

ASTM D 4255 describes both 2 Rail and 3 rail methods of determining the in-plane shear strength of a composite laminate panel. In the 2 Rail test (Method A) a laminate panel specimen is clamped between loading plates and yokes and then subject to shear loading. Measurement of shear strain requires the use of strain gauges on the specimen.

### Principle of Operation

Two types of fixture are available: one working in a compression mode and one working in a tension mode. A specimen template is included to ensure the accurate location of the holes in the specimen.

### Features

- Conforms to ASTM D 4255
- Suitable for non-ambient temperatures



## Specifications

Catalog Number	-	S4695A	S4695B
Test Standard	-	ASTM D 4255A	ASTM D 4255A
Test Type	-	Compression	Tension
Maximum Load	kN	100	100
	kfg	10,000	10,000
	lbf	22,000	22,000
Temperature Range	°C	-75 to +250	-75 to +250
	°F	-103 to +482	-103 to +482

### Specimen Size

Width	mm	76	76
	in	3.0	3.0
Length	mm	152	152
	in	6.0	6.0

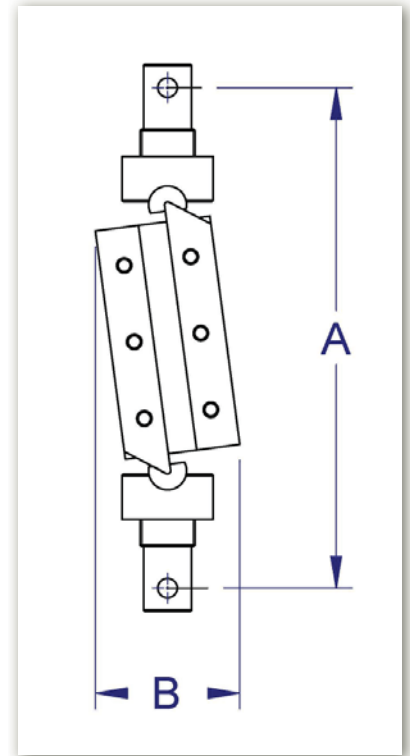
### Mechanical Connection

Upper Interface	-	1.25 in connection with ½ in clevis pin (type Dm)	1.25 in connection with ½ in clevis pin (type Dm)
Lower Interface	-	1.25 in connection with ½ in clevis pin (type Dm)	1.25 in connection with ½ in clevis pin (type Dm)

### Dimensions

Effective Length (A)	mm	304.8	508
	in	12	20
Effective Width (B)	mm	102	102
	in	4	4

Material	-	Stainless Steel	Stainless Steel
----------	---	-----------------	-----------------



[www.instron.com](http://www.instron.com)



Worldwide Headquarters  
825 University Ave, Norwood, MA 02062-2643, USA  
Tel: +1 800 564 8378 or +1 781 575 5000

European Headquarters  
Coronation Road, High Wycombe, Bucks HP12 3SY, UK  
Tel: +44 1494 464646

Instron Industrial Products  
900 Liberty Street, Grove City, PA 16127, USA  
Tel: +1 724 458 9610