

# FOAM COMPRESSION FIXTURE

2810-130

The foam compression fixture is designed for indentation and compression testing of expanded cellular materials. Standards that require this style of fixture include ASTMD 3574, Method B1 and B2, ASTMD 5672, and ISO 2439.

The fixture includes a perforated loading table and a circular indentor/ anvil. The 203 mm (7.992 in) diameter upper anvil incorporates a swivel joint. The base table is perforated with 6.5 mm (0.256 in) holes spaced on 20 mm (0.787 in) centers and is elevated from the mounting surface to allow for rapid air escape from the specimen.

## PRINCIPLE OF OPERATION

The specimen is placed on the perforated table that is attached to the instrument base. The indentor is brought down in contact with the specimen to establish a reference height. This is followed by a series of preconditioning loading segments and a test loading sequence. Data is captured during the test loading sequence which generally includes a dwell time. Results, which commonly include loads at defined percentage indentations or deflections, are then calculated.

### FEATURES

- Mounts to most standard Instron<sup>®</sup> universal material testing instruments and can be adapted to most other universal testing instruments
- Perforated table
- Swivel mounted indentor/ anvil
- Meets the ASTM D3574, Methods B1 and B2, and ASTM D5672 standards
- Meets the EN ISO 2439 standard
- Capacity: 10 kN



#### APPLICATION RANGE

- IFD (indentation load deflection) and CFD (compression load deflection) of expanded cellular materials
- Suitable for an entire product or cut specimen
- Suitable for specimens with or without skins

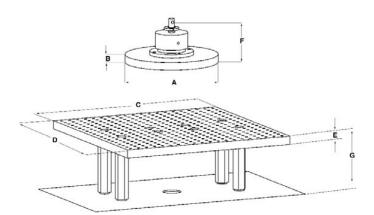
A=Upper platen diameter F=Upper platen effective length

C=Table width D=Table depth G=Table effective length

#### **SPECIFICATIONS**

Catalog Number		2810-130
Testing Standard		ASTM D3574 (B1 & B2) and ASTM D5672
Capacity	kN kgf Ibf	10 1000 2250
Minimum Specimen Dimensions (W × D × H)	mm	380 × 380 × 100
Indentor / Anvil Diameter (A)	mm in	203 8.0
Indentor / Anvil Thickness (B)	mm in	17.5 0.69
Perforated Table Dimensions (C × D)	mm in	387 × 387 15.25 × 15.25
Perforated Table Thickness (E)	mm in	19 0.75
Mechanical Connection Upper		6 mm clevis pin (Type Dm)
Mechanical Connection Lower		Standard base corporate mounting 4 xM10 bolts on a 90 mm x 280 mm pattern
Instrument Compatibility		All except 4411, 1130, 4301 and single column
Effective Length of Indentor / Anvil (F)	mm in	100 3.94
Effective Length of Table / Stand-Off or Table / Spherical Seat (G) (approx.) <sup>1</sup>	mm in	145.5 5.73
Temperature Range		Ambient

Note: 1. Available as additional option



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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

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