

CHAPTERS

Tables/
Breadboards

Mechanics

Optomechanic
Devices

Kits

Lab Supplies

SECTIONS

Breadboards

Breadboard
SupportsBreadboard
Accessories

ScienceDesk

ScienceDesk
Accessories

Optical Tables

Table Supports

Optical Table
Accessories

Breadboard Support Frames – Passive Isolation



Metric and Imperial Compatible

This family of passive isolation systems incorporates four independent air mounts for general applications requiring isolation from low frequency vibrations. Each leg is manually controlled to achieve a level surface and does not require a constant source of air to maintain the setting. A manual foot pump such as our PTA126 (see page 72) is recommended for pressurizing passive vibration isolation systems.

Passive isolation is particularly effective for instruments with a high center of gravity, providing the stability and stiffness required to produce rapid attenuation of vibrational disturbances. For isolator loads of 45 to 180 kg, the standard system is recommended for best performance. If the weight of your application and breadboard exceeds 180 kg, we recommend the heavy-duty design. Custom frame sizes are available. Please contact your local Thorlabs office (a list is provided on the back cover).

The breadboard support frames featured here are stocked for immediate shipment. Thorlabs also has the tooling and supplies necessary to offer other frame sizes with minimal lead time. Please visit www.thorlabs.com to view all the options.

Specifications

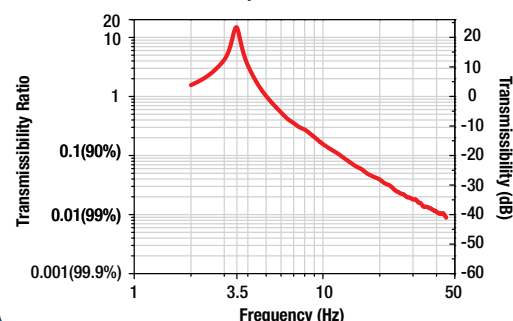
- **Load Capacity Including Breadboard**
 - Standard: 50 - 570 lbs (24 - 260 kg)
 - Heavy Duty: 300 - 1540 lbs (135 - 700 kg)
- **Air Connection:** Schrader Valve
- **Max Isolator Air Pressure:** 72 psi (415 kPa)
- **Height:** 28" (700 mm) or 32" (800 mm)
- **Height Adjustment Range:** ± 0.4 " (10 mm) via Leveling Feet
- **Finish:** Black Paint

Vibration-Isolation Data*

VERTICAL RESONANT FREQUENCY	TRANSMISSIBILITY OR (ISOLATION EFFICIENCY)
3.5 Hz	24 dB at Resonance
	-16 dB (0.15 Transmissibility Ratio) @ 10 Hz

*Note: Measured supporting a 4' x 8' x 8.3" (1.25 m x 2.5 m x 210 mm) table.

Vertical Transmissibility of Passive Isolation Frame



**Other Sizes Available up to
4' x 5' (1200 mm x 1500 mm)**

Standard Passive Isolating Support Frames, 28" (700 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFP51507	\$ 1,945.00	£ 1,400.40	€ 1,692.15	¥ 15,501.65	Standard Passive Support Frame, 4' x 3' (1200 mm x 900 mm)

*Please contact your local sales office for a quotation including shipping.

Heavy-Duty Passive Isolating Support Frames, 28" (700 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFH51502	\$ 2,029.80	£ 1,461.46	€ 1,765.93	¥ 16,177.51	Heavy-Duty Passive Support Frame, 5' x 3' (1500 mm x 900 mm)

*Please contact your local sales office for a quotation including shipping.

Standard Passive Isolating Support Frames, 32" (800 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFP52502	\$ 1,989.00	£ 1,432.08	€ 1,730.43	¥ 15,852.33	Standard Passive Support Frame, 5' x 3' (1500 mm x 900 mm)

*Please contact your local sales office for a quotation including shipping.

Heavy-Duty Passive Isolating Support Frames, 32" (800 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFH52502	\$ 2,040.00	£ 1,468.80	€ 1,774.80	¥ 16,258.80	Heavy-Duty Passive Support Frame, 5' x 3' (1500 mm x 900 mm)

*Please contact your local sales office for a quotation including shipping.

Casters

ITEM #	\$	£	€	RMB	DESCRIPTION
PWA061	\$ 114.50	£ 82.44	€ 99.62	¥ 912.57	Set of 4 Casters, 1540 lbs (700 kg) Maximum Load