

Breadboard Support Frames – Active Isolation

Thorlabs' active isolation system is designed specifically to maximize vibration isolation for sensitive applications. It features a pneumatic self-leveling design that provides both vertical and horizontal vibration isolation of the work surface and effectively attenuates low frequency vibrations. These isolators ensure high instrument resolution and repeatability. Typical applications include interferometry, cell injection,

non-contact surface measurement, microscopy, and other motion-sensitive measurements. Select the active workstation if your application would benefit from a self-leveling facility and a high degree of vibration isolation. Please contact your nearest Thorlabs representative to discuss your options including custom sizes. Contact information can be found 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.



Metric and Imperial Compatible

Specifications

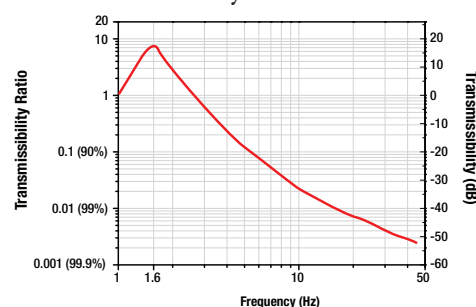
- **Load Capacity Including Breadboard:** 1545 lbs (700 kg)
- **Max Isolator Air Pressure:** 100 psi (690 kPa)
- **Height:** 28" (700 mm) or 32" (800 mm)
- **Height Adjustment Range:**
 - Isolators: $\pm 0.25"$ (6 mm)
 - Leveling Feet: $\pm 0.4"$ (10 mm)
- **Self Leveling Repeatability:** $\pm 0.010"$ (± 0.25 mm)
- **Finish:** Black Paint

Active Self-Leveling Vibration-Isolation Data*

RESONANT FREQUENCY		TRANSMISSIBILITY (ISOLATION EFFICIENCY)	
Vertical	Horizontal	Vertical	Horizontal
1.6 Hz	1.2 Hz	13 dB at Resonance	8 dB at Resonance
		-18 dB (87%) @ 5 Hz	-18 dB (87%) @ 5 Hz
		-34 dB (98%) @ 10 Hz	-34 dB (98%) @ 10 Hz

*Performance values were measured at full rated load. Lighter tables or loads will have a higher vertical resonant frequency, lower transmissibility at resonance, and higher transmissibility at 10 Hz.

Vertical Transmissibility of Active Isolation Frame



Active Isolating Support Frames, 27.5" (700 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFA51507	\$ 2,607.80	£ 1,877.62	€ 2,268.79	¥ 20,784.17	Active Support Frame, 4' x 3' (1200 mm x 900 mm)

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

Active Isolating Support Frames, 31.5" (800 mm) Height

ITEM #*	\$	£	€	RMB	DESCRIPTION
PFA52507	\$ 2,618.00	£ 1,884.96	€ 2,277.66	¥ 20,865.46	Active Support Frame, 3' x 4' (900 mm x 1200 mm)
PFA52504	\$ 2,686.00	£ 1,933.92	€ 2,336.82	¥ 21,407.42	Active Support Frame, 4' x 5' (1200 mm x 1500 mm)
PFA52502	\$ 2,618.00	£ 1,884.96	€ 2,277.66	¥ 20,865.46	Active Support Frame, 5' x 3' (1500 mm x 900 mm)

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

Casters

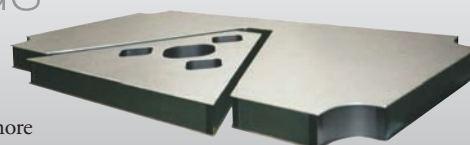
ITEM #	\$	£	€	RMB	DESCRIPTION
PWA061	\$ 114.50	£ 82.44	€ 99.62	¥ 912.57	Set of 4 Casters, 1540 lbs (700 kg) Maximum Load

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Custom Tables and Breadboards

Custom Capabilities

If you do not find an optical table or breadboard in the size or shape you need, we can build one for you. Contact your local technical support office early in your development program, and our product specialists will work with you to provide an optimal, cost-effective, custom solution. See page 58 for more information or call and speak with one of our local Technical Support Specialists. Regional office information is provided on the back cover.



See page 58