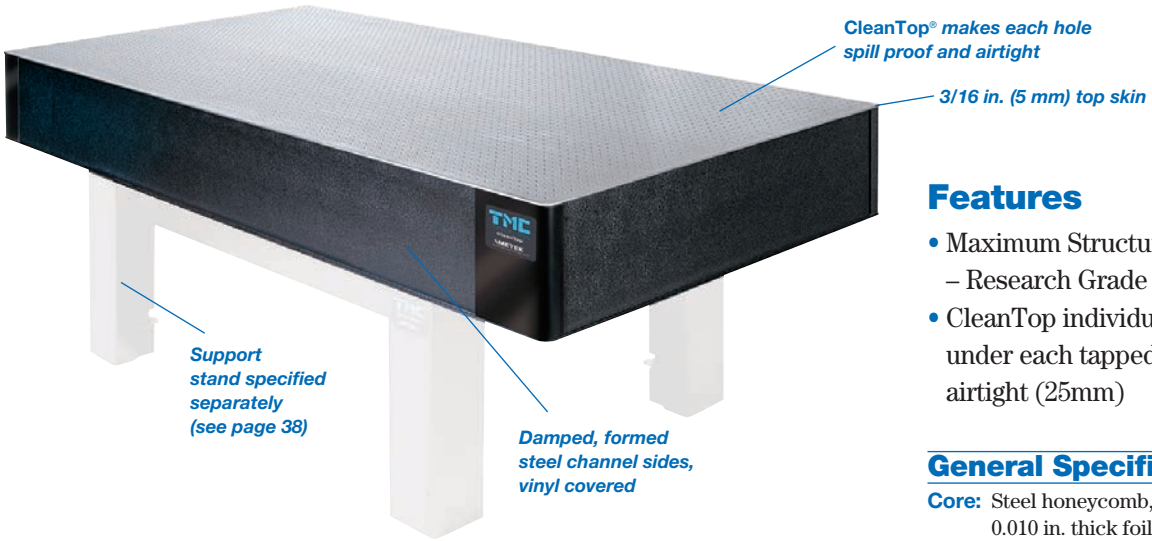
784 Performance Series

Research Grade CleanTop® Optical Top



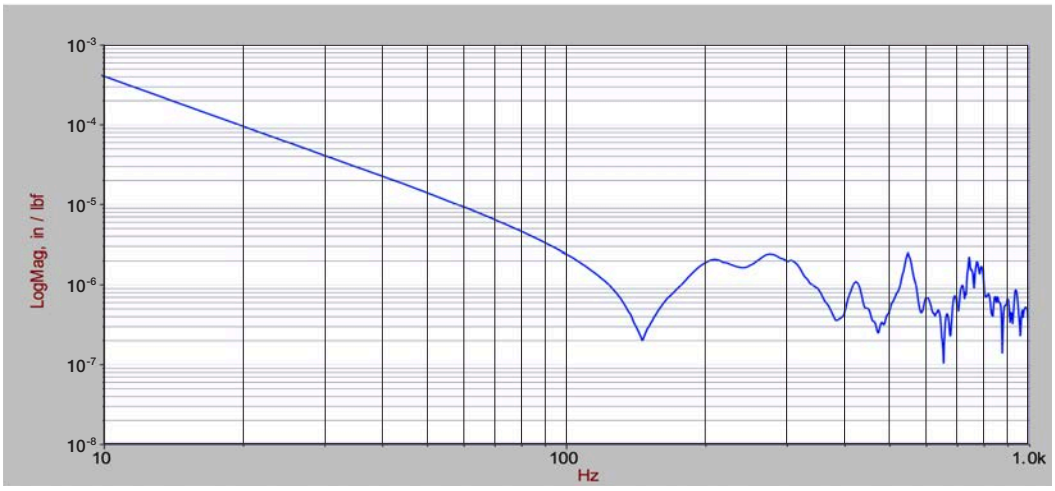
Features

- Maximum Structural Damping – Research Grade
- CleanTop individual nylon cups under each tapped hole are airtight (25mm)

General Specifications

Core: Steel honeycomb, closed-cell, 0.010 in. thick foil
Core shear modulus: 275,000 psi
Core cell size: <0.5 in.^{2}
Core density: 13.3 lb/ft^3 (230 kg/m^3)
Flatness: ∓ 0.005 in. (0.13 mm)
Top skin: 430 series ferromagnetic stainless steel, 3/16 in. thick (5 mm)
Sidewalls: Damped, formed steel channel, vinyl covered
Tapped holes: Backed by 1 in. (25 mm) long CleanTop nylon cups

Research Grade CleanTop® provides the ultimate in optical top performance. Unmatched in the industry, Research Grade performance combines the smallest cell-size and highest core density with the unique CleanTop® design, all-steel construction, and the highest level of structural damping commercially available. Research Grade CleanTops are recommended for the most demanding applications including interferometers, holography, and ultra-fast lasers, as well as the most severe floor vibration environments. For the best overall vibration control, consider combining this top with a STACIS® iX support, a hybrid air/piezoelectric, 2-stage vibration cancellation system (page 39).



Corner Compliance data measures the displacement of the top in response to impact by a calibrated hammer. The lack of response below 300 Hz is indicative of extremely high damping and excellent overall structural performance. Compliance was measured on a 48 in. x 96 in. x 12 in. top.

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783 Performance Series

Scientific Grade CleanTop® Optical Top

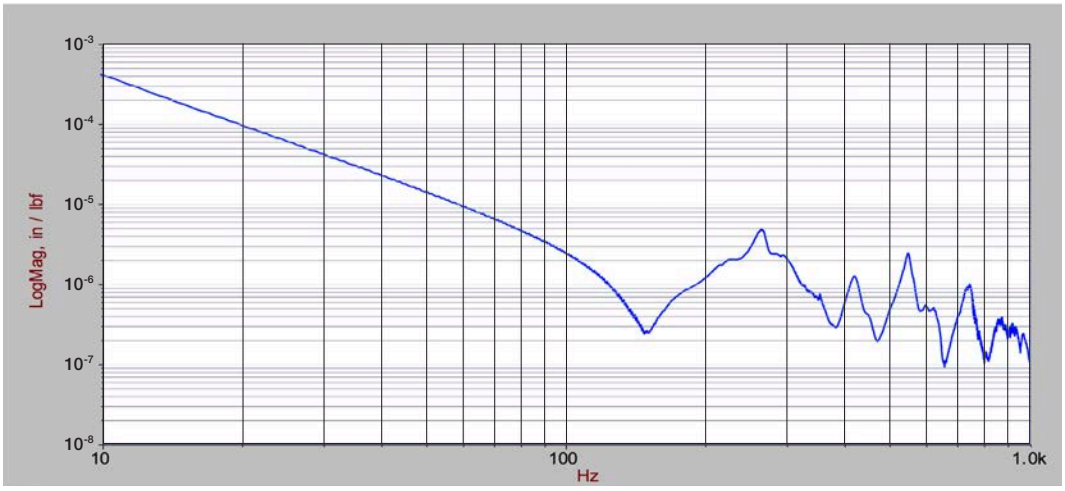
Scientific Grade CleanTop® provides a high level of optical top performance with reduced structural damping. Scientific Grade has the same design features as Research Grade including core size and density, CleanTop cups, and all-steel construction with reduced damping. Peak compliance levels for Scientific Grade damping exceed peak compliance levels of Research Grade damping by a factor of 4.

Features

- Standard Structural Damping – Scientific Grade
- CleanTop individual nylon cups under each tapped hole are airtight (25mm)

General Specifications

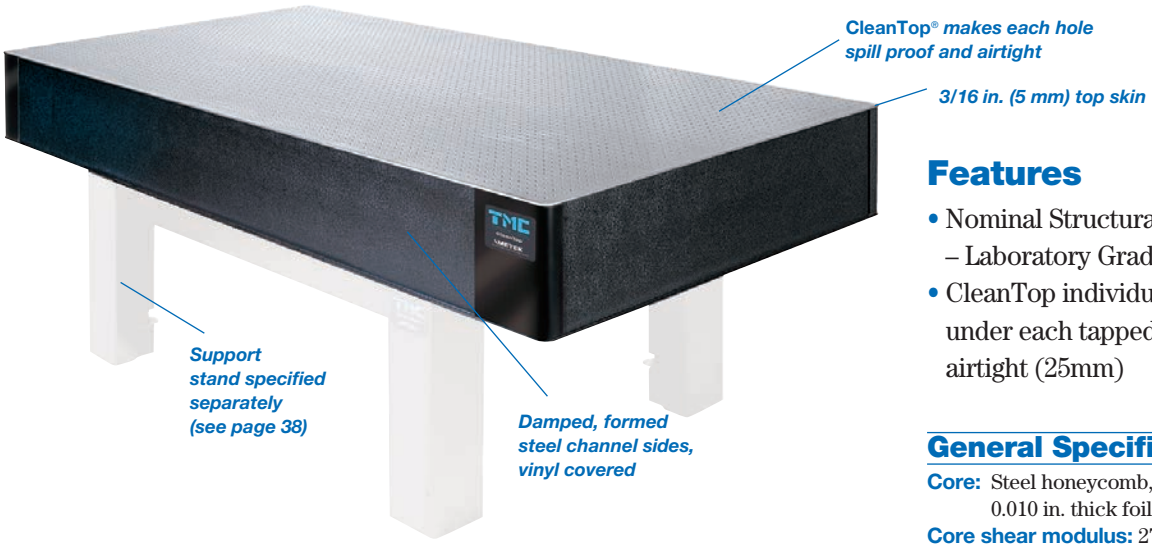
Core: Steel honeycomb, closed-cell, 0.010 in. thick foil
Core shear modulus: 275,000 psi
Core cell size: <0.5 in.²
Core density: 13.3 lb/ft³ (230 kg/m³)
Flatness: ∓ 0.005 in. (0.13 mm)
Top skin: 430 series ferromagnetic stainless steel, 3/16 in. thick (5 mm)
Sidewalls: Damped, formed steel channel, vinyl covered
Tapped holes: Backed by 1 in. (25 mm) long CleanTop nylon cups



Corner Compliance data measured on the Scientific Grade demonstrates a higher peak compliance value than the Research Grade. Compliance was measured on a 48 in. x 96 in. x 12 in. top.

781 Performance Series

Laboratory Grade CleanTop® Optical Top



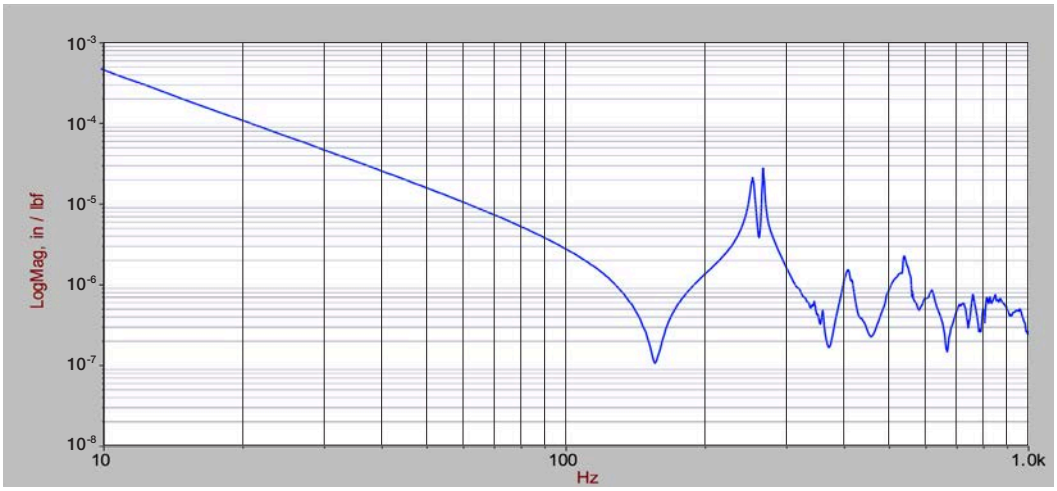
Features

- Nominal Structural Damping – Laboratory Grade
- CleanTop individual nylon cups under each tapped hole are airtight (25mm)

General Specifications

Core: Steel honeycomb, closed-cell, 0.010 in. thick foil
Core shear modulus: 275,000 psi
Core cell size: <0.5 in.²
Core density: 13.3 lb/ft³ (230 kg/m³)
Flatness: ∓ 0.005 in. (0.13 mm)
Top skin: 430 series ferromagnetic stainless steel, 3/16 in. thick (5 mm)
Sidewalls: Damped, formed steel channel, vinyl covered
Tapped holes: Backed by 1 in. (25 mm) long CleanTop nylon cups

Laboratory Grade CleanTop® provides an economical performance level for the least sensitive applications in less severe floor vibration environments. The Laboratory Grade is appropriate for general lab applications where the primary requirement is for a rigid, flat mounting surface.



Corner Compliance data measured on the Laboratory Grade shows higher amplification at the table's resonant frequency. Compliance was measured on a 48 in. x 96 in. x 12 in. top.

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