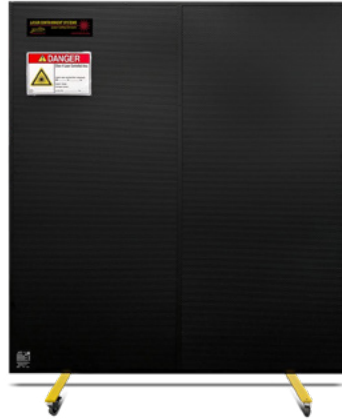


EVER-GUARD®

Freestanding Laser Safety Barriers



EVER-GUARD® LASER SAFETY BARRIERS MADE OF ANODIZED ALUMINUM SHEETS

EVER-GUARD® laser safety barriers are made of anodized aluminum sheets certified according to EN 12254. They are suitable for medium and high-power laser applications at wavelengths from 190 nm to 11100 nm.

EVER-GUARD® laser safety barriers are designed for high-power laser environments, providing protection up to 50 kW/cm² for 100 s at 1070 nm with a 1 mm spot, and 6 kW/cm² for 100 s at 1070 nm with a 3 mm spot. They meet ANSI Z136, EN 12254, EN 60825-4, UKCA, and cleanroom standard ISO 14644-1, ensuring suitability for demanding industrial and research applications. The rigid anodized aluminum panel construction with a black, powder-coated, laser-diffusing surface offers exceptional durability, chemical resistance, and long-term stability.

Built for both strength and flexibility, EVER-GUARD® panels are mounted in a heavy-duty steel frame with options with standard locking swivel casters or optional low profile feet. Light-blocking connector strips ensure continuous protection when combining multiple panels, and select models feature hinged or interlocked doors for safe entry and exit. Designed for efficient handling, the modular design allows for straightforward setup, reconfiguration, and compact storage when not in use.

SPECIFICATIONS

Laser Protection

Laser Damage Thresholds	50kW/cm ² for 100 seconds at 1070 nm, 1mm diameter spot (1/e) 6 kW/cm ² for 100 seconds at 1070 nm, 3mm diameter spot (1/e)
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Material and Construction

	Constructed from black textured aluminum panels with a metal surface coated with a proprietary black powder-coat, designed for superior diffusion and absorption of both direct and scattered laser radiation
	Metal panels provide durable, cleanroom-friendly performance, combining high power resistance with flexibility typically found in fabric barriers

Frame, Mobility, and Access

	Freestanding configurations include standard wheeled or optional low-profile flat bases, floor mounted - can be left freestanding or lagged to the floor
	Some models offer interlocked, hinged doors, with options for proximity sensors or access control
	Light-blocking connector strips are included to ensure seamless coverage when combining panels

Certifications and Compliance

Conforms to key safety standards	ANSI Z136, CE EN 12254, CE EN 60825-4, UKCA, and ISO 14644-1 (cleanroom compatible)
Additional compliance	ANSI ESD STM11.11, REACH, and RoHS 10

Available Sizes (width x height) [m]

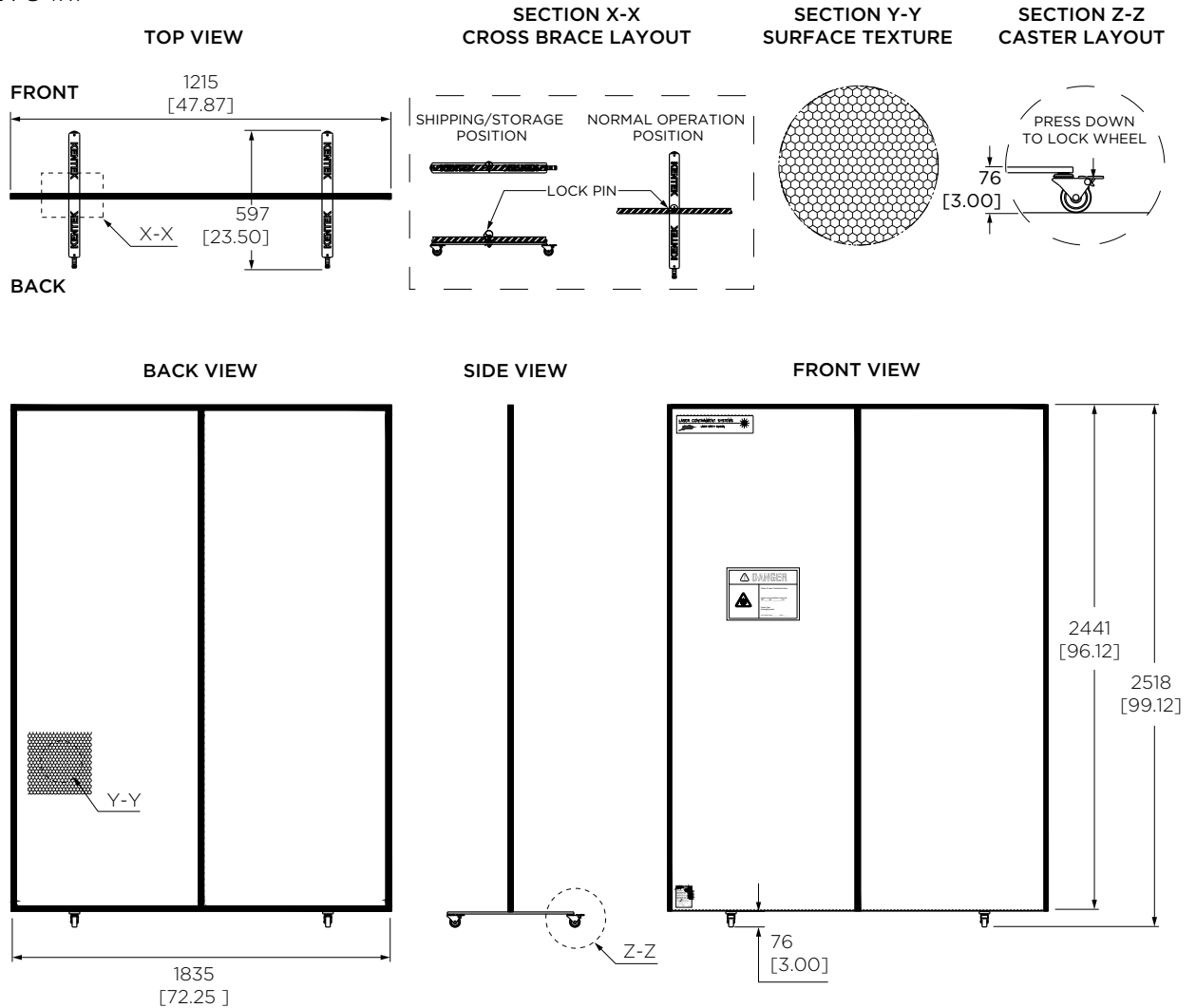
PT3-EVG4×7	1.22×2.13
PT3-EVG6×7	1.83×2.13
PT3-EVG4×8	1.22×2.44
PT3-EVG6×8	1.83×2.44

Additional Features

	Cleanroom compatibility and sturdy design suited for industrial environments
	Optional features may include viewing windows, entry keypads, and emergency access systems

TECHNICAL DRAWING

PT3-EVG4x7



1. Aluminum frame with EVER-GUARD® panels.
2. Textured black powder coat finish.
3. One light blocking strip included, to allow modular connection system.
4. Cross brace assemblies pivot and lock for storage and normal operation.

Units: mm [inch]

Dimensions are in millimeters - [inches] and are for reference only.

PRODUCT CHANGES AND LIABILITY

LASER COMPONENTS reserves the right to make changes to the product specifications and/or discontinue products without prior notice. While every effort has been made to ensure the accuracy and reliability of the information provided in this datasheet, LASER COMPONENTS accepts no liability for any errors, omissions, or the consequences of product use. It is the responsibility of the customer to ensure that the product is suitable for their specific application and to comply with all applicable laws and regulations.

ORDERING INFORMATION

Products can be ordered directly from LASER COMPONENTS or its representatives. For a complete listing of representatives, visit our website at www.lasercomponents.com

Custom designed products are available on request.