

FLEX-GUARD®

Freestanding Laser Safety Barriers



FLEX-GUARD® LASER SAFETY BARRIERS WITH BLACK COVERING

FLEX-GUARD® laser safety barriers are certified to EN 12254 for wavelengths ranging from 190 to 11,100 nm. Additionally, Kentek's Plus Power versions are ANSI Z136 certified and tested to withstand 425 W/cm² for 100 seconds at 1070 nm with a 1mm spot. These barriers feature heavy-duty, flame-retardant, abrasion-resistant, non-fraying fabric with double-stitched, flat-seamed construction for enhanced durability.

Structurally robust, they utilize a welded steel or lightweight aluminum frame, available with standard locking wheeled bases or optional low profile feet that can be left freestanding or lagged to the floor. Each unit comes pre-assembled and includes a Class 4 »Laser DANGER« sign on the non-laser side. Designed for easy shipping and storage, the panels can be disassembled to approximately one-seventh of their assembled size.

To shield larger areas, screens can be connected using zippers (PTFGZ) or climbing fasteners (PTFGV). Variants with a swing door (SAL) are available to facilitate entry and exit from the protected area. For the PTFGZ-Series, an optional unique saloon-style entry door (SAL7) can be connected to adjoining barriers using securable zippers and integrated Dual Interlocks.

SPECIFICATIONS

Laser Protection

Wavelength Range [nm]	190 nm – 11,100 nm
Power Rating (Plus Power models)	425 W/cm ² for 100 s at 1070 nm, 1mm spot (1/e)
Compliance	ANSI Z136, EN 12254, EN 60825-4

Barrier Fabric

Material	Black laser safety curtain fabric, heavy-duty, flame-retardant, chemical- and abrasion-resistant
Edge Finish	Double-stitched seams, hemmed edges, non-fraying
Fire Safety	Meets NFPA-701 TM2, ASTM E84, CSFM Title 19 CCR 1237
Other Standards	AATCC TM76 (durability), ISO 14644-1 (cleanroom compliant)

Frame and Mobility

Frame	Welded steel or lightweight aluminum, rigid construction
Base Options	Standard locking swivel casters or optional low profile feet - can be left freestanding or lagged to the floor
Connection Options	Zipper (PTFGZ), Velcro straps (PTFGV), or for PTFGZ-Series a unique Saloon-Style Door (SAL7)
Portability	Breaks down to -1/7 of assembled size for storage/shipping

Available Sizes

PTFG(Z), PTFG(V) 4×7	1.22 m × 2.13 m (4 ft × 7 ft)
PTFG(Z), PTFG(V) 6×7	1.83 m × 2.13 m (6 ft × 7 ft)
PTFG-SAL7 3×7 for PTFGZ-Series	0.90 m × 2.13 m (3 ft × 7 ft, Saloon-Style Safety Entryway)

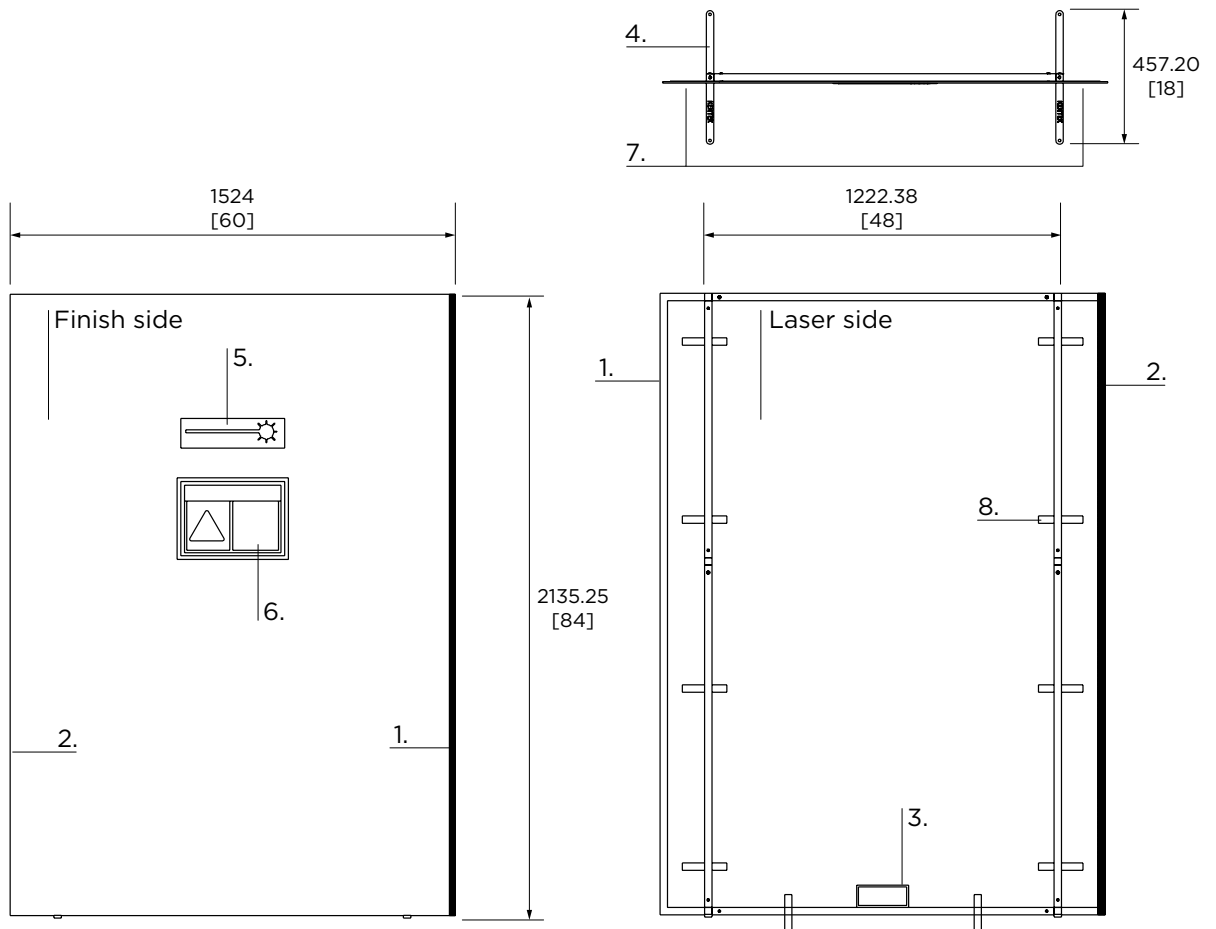
Note: Multiple panels connect for larger coverage

Included Accessories

	Class 4 Laser DANGER warning sign (mounted on non-laser side)
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TECHNICAL DRAWING

PTFGZ-4X7



Finish side is designed to face away from the laser

1. Zipper pull on finish(zip bottom to top)
2. Zipper non pull on reverse(zip bottom to top)
3. Serial number tag on reverse centered on panel
4. 1X18 inch OSHA yellow foot
5. Kentek graphic panel on finish
6. Clear vinyl pocket on finish for OSHA/ANSI Z136 compliant warning sign
7. 6 inch integrated light blocking wings for 320 degree hinge connection
8. VELCRO® hook/loop strap

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.