

LFELP7 - May 21, 2025

Item # LFELP7 was discontinued on May 21, 2025. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

WORKSPACE ENCLOSURE FRAMES

- Free-Standing, Customizable Enclosure Frames
- For Nexus® Optical Tables, ScienceDesk™ Workstations, and Other Setups

Application Idea  
LFE1220 Wraparound Enclosure Frame  
with LFE1220 Strip Curtain



LFELP6  
Laser Safety Panel



LFE1220W  
Walkway Enclosure Frame



LFEF1-US  
HEPA Fan Filter Unit

[Hide Overview](#)

OVERVIEW

Features

- Free-Standing Enclosure Frames
- Options Available to Enclose 1.2 m x 2.0 m (4' x 6') Nexus® Optical Tables with or without a Walkway
- Accessories Available Below:
  - Transparent Strip Curtain Walls
  - Acrylic Panels
  - HEPA Fan Filter Unit Upgrade Kits
  - Laser Safety Panels
  - Hanging Shelf
  - LED Light Strip
- Compatible with other Setups, Such as ScienceDesk™ Workstations, that Fit Within the Enclosure Area

Quick Links

Wraparound Enclosure Frame
Walkway Enclosure Frame
Transparent Strip Curtains
Acrylic Panels
HEPA FFU Upgrade Kits
Laser Safety Panels
Hanging Shelf
LED Light Strip

Thorlabs' Customizable Enclosure Frames are designed to enable the creation of a custom work environment around Nexus optical tables, ScienceDesk workstations, or other setups that fit within the enclosure frame area. The LFE1220 Wraparound Enclosure is designed to tightly encompass the surface of a 1.2 m x 2.0 m (4' x 6') optical table while not making contact with the table sides in order to minimize vibrations. The LFE1220W Walkway Enclosure Frame is large enough to provide a walkway on all four sides when centered over a 1.2 m x 2.0 m (4' x 6') optical table, although it can be used with other setups that fit inside the frame as well. Both enclosure frames include panels that cover the frame ceiling.

Each enclosure frame can be user-customized by adding Transparent PVC Strip Curtains Kits, a HEPA Fan Filter Unit Kit, Hanging Shelves, or the PSY240E LED Light Strip that are available separately below. Additionally, we offer Acrylic Panel Kits and Laser Safety Panel Kits that are designed for use with the LFE1220 wraparound enclosure frame. The rails that compose these frames are also compatible with our 50 mm & 75 mm construction rail accessories, including T-nuts and screws, mounting brackets and feet, rail joiners, and channel inserts. Users can further customize the frames by adding their own accessories, such as air quality monitors. Alternatively, we also offer Laminar Flow Enclosures based on these enclosure frames that include HEPA filtration, an air quality monitor, LED light strip, and soft wall transparent curtains for situations where a clean room environment is desired.

Please note that these enclosures require assembly, a manual process that requires four people to work on at least one of the assembly steps. Each fully assembled enclosure is designed to enclose a Nexus optical table. Tables are not included and must be purchased separately. To view a list of compatible Nexus optical tables, please see the *Compatible Tables* tab. For full assembly instructions, please view the manual by clicking on the red docs icon (📄) below.

[Hide Compatible Tables](#)

COMPATIBLE TABLES

Compatible Nexus Optical Tables			
Item #	Dimensions	Mounting Holes	Additional Features
T46H	4' x 6' x 8.3"	1/4"-20	-
T46V	4' x 6' x 8.3"	1/4"-20	Sealed Holes
T46J	4' x 6' x 12.2"	1/4"-20	-
T46W	4' x 6' x 12.2"	1/4"-20	Sealed Holes
T46HH <sup>a</sup>	4' x 6' x 8.3"	1/4"-20	Two Through Ports
T46K	4' x 6' x 18.1"	1/4"-20	-
T46X	4' x 6' x 18.1"	1/4"-20	Sealed Holes
T1220C	1.2 m x 2.0 m x 210 mm	M6 x 1.0	-
T1220P <sup>b</sup>	1.2 m x 2.0 m x 210 mm	M6 x 1.0	Sealed Holes
T1220D	1.2 m x 2.0 m x 310 mm	M6 x 1.0	-
T1220CH	1.2 m x 2.0 m x 210 mm	M6 x 1.0	Two Through Ports
T1220E	1.2 m x 2.0 m x 460 mm	M6 x 1.0	-
T1220R	1.2 m x 2.0 m x 460 mm	M6 x 1.0	Sealed Holes
T1220Q	1.2 m x 2.0 m x 310 mm	M6 x 1.0	Sealed Holes

- a. Also available bundled with 700 mm tall active isolator legs (Bundle Item # T46HK).  
b. Also available bundled with 700 mm tall active isolator legs (Bundle Item # T1220CK).

[Hide Panel Certifications](#)

PANEL CERTIFICATIONS

Laser Safety Panel Fabric

Disclaimer

The laser safety fabric in the Laser Safety Panel Kits has been tested by third parties using a variety of state regulations and EN specifications. Due to manufacturing variances, mechanical wear, and laser damage, Thorlabs assumes no responsibility for laser material failure. Please consult your local laser safety specialist before purchasing to ensure that the fabric is suitable for your application. To minimize risk, inspect the material before each use and ensure that it is in excellent condition.

EN Certification <sup>a</sup>				
Certification Requirements	Test Parameters	Damage Threshold	Maximum Spectral Transmittance Ratio	Certification Level <sup>a</sup>
EN 12254: 2010 (E), 180 - 315 nm Range	266 nm, 3 ns Pulses (FWHM), 50 kHz	1 x 10 <sup>7</sup> W/m <sup>2</sup>	1 x 10 <sup>-10</sup>	D AB10
EN 12254: 2010 (E), 180 - 315 nm Range	266 nm, 240 ms Pulses (FWHM), 10 Hz	3 x 10 <sup>6</sup> J/m <sup>2</sup>	1 x 10 <sup>-5</sup>	I AB5
EN 12254: 2010 (E), 180 - 315 nm Range	266 nm, 5 ns Pulses (FWHM), 10 Hz	3 x 10 <sup>5</sup> J/m <sup>2</sup>	1 x 10 <sup>-4</sup>	R AB4
EN 12254: 2010 (E), 180 - 315 nm Range	266 nm, 800 ps Pulses (FWHM), 20 Hz	3 x 10 <sup>14</sup> J/m <sup>2</sup>	1 x 10 <sup>-4</sup>	M AB4
EN 12254: 2010 (E), 315 - 1050 nm Range	532 nm (CW)	1 x 10 <sup>7</sup> W/m <sup>2</sup>	1 x 10 <sup>-7</sup>	D AB7
EN 12254: 2010 (E), 315 - 1400 nm Range	1064 nm / 532 nm, 10 ns Pulses (Square), 5 Hz	5 x 10 <sup>3</sup> J/m <sup>2</sup>	1 x 10 <sup>-6</sup>	R AB6
EN 12254: 2010 (E), 315 - 1400 nm Range	1064 nm, 300 μs Pulses (Square), 20 Hz	5 x 10 <sup>5</sup> J/m <sup>2</sup>	1 x 10 <sup>-8</sup>	I AB8
EN 12254: 2010 (E), 315 - 1400 nm Range	1064 nm / 532 nm, 500 ps / 400 ps Pulses	1.5 x 10 <sup>4</sup> J/m <sup>2</sup>	1 x 10 <sup>-8</sup>	M AB8

	(Square), 20 Hz			
EN 12254: 2010 (E), 1050 - 1400 nm Range	1070 nm (CW)	$2.5 \times 10^6 \text{ W/m}^2$	$1 \times 10^{-5}$	D AB5
EN 12254: 2010 (E), 1400 - 10 600 nm Range	10.6 $\mu\text{m}$ (CW)	$1 \times 10^7 \text{ W/m}^2$	$1 \times 10^{-4}$	D AB4
EN 12254: 2010 (E), 1400 - 10 600 nm Range	10.6 $\mu\text{m}$ , 100 ms Pulses (Square), 10 Hz	$1 \times 10^7 \text{ J/m}^2$	$1 \times 10^{-5}$	I AB5
EN 12254: 2010 (E), 1400 - 10 600 nm Range	10.6 $\mu\text{m}$ , 100 ns Pulses (Square), 1 Hz	$1 \times 10^4 \text{ J/m}^2$	$1 \times 10^{-2}$	R AB2

a. These certification levels are reproduced from EN 12254: 2010(E).

Other EN Certifications <sup>a</sup>			
Certification Type	Test Wavelength	Pulsewidth (FWHM)	Comments
Mechanical Strength	N/A	N/A	UV-Exposed Protected Fabric. All samples meet requirement.
Resistance to Ignition	N/A	N/A	Flame does not reach the test mark with the burner in position, and self-extinguishes after removal of the burner. Material does not continue to glow for more than one second after removal of the burner.
Spectral Transmittance	200 nm - 50 000 nm	N/A	Samples do not exhibit transmission windows from 200 nm to 50 000 nm.
Stability to Temperature	Various	Various	No degradation was observed in any AB level for any sample.
Stability to UV Radiation	All	10 ns - 20 ns	Samples do not exhibit any cracking, peeling, or degradation. For laser wavelengths, samples do not exceed maximum spectral transmission for scale number. Samples maintained optical density using both laser and spectrophotometer.

a. These certification levels are reproduced from EN 12254: 2010(E).

Additional Certifications	
Certification Requirements	Comments
Boston Fire Department Classification Fire Test: BFD IX-1	After flame does exceed two seconds; flame propagation and after flame does not extend beyond six inches from the bottom edge. Propagating afterglow does not exceed forty seconds; non-propagating afterglow in the charred area does not exceed eighty seconds.
California Administrative Code Title 19: Public Safety, Section 1237	The char length did not exceed 6.0 inches, and the average afterflame time did not exceed 4.0 seconds in length or width directions.
NFPA No. 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films, 2019 Edition, (Test 1) <sup>a</sup>	The average percent weight loss does not exceed 40% and the average residual flame does not exceed 2.0 seconds.
NYC Cal. No. 294-40-SR	No flashing occurred at any time, and the average continuation of flaming did not exceed three seconds. The average continuation of glow at the edge of the charred area did not exceed twenty seconds after the cessation of flaming.

a. This document includes testing after 72 hours of leaching the fabric. For results prior to leaching, please click here.

[Hide Wraparound Enclosure Frame](#)

## Wraparound Enclosure Frame



- ▶ Wraparound Design Encloses the Surface of a Table
- ▶ Designed to Fit a 1.2 m x 2.0 m (4' x 6') Nexus Optical Table

The LFE1220 Wraparound Enclosure Frame is a free-standing frame with roof panels for our 1.2 m x 2.0 m (4' x 6')

Nexus Optical Table. It does not touch the table in order to avoid the transmission of vibrations from the frame to the table. The frame is

General Specifications	
Maximum Load on Roof (For Storage) <sup>a,b</sup>	260 kg (573 lbs)
Maximum Load per Construction Rail <sup>a,b</sup>	100 kg (220 lbs)
Total Weight of Enclosure	82 kg (181 lbs)
Packaged Weight	152 kg (335 lbs)
Foot Height Adjustment	$\pm 11.5 \text{ mm}$
Internal Dimensions (L x W x H) <sup>c</sup>	2100 mm x 1230 mm x 1982 mm

composed of rails that are compatible with our PVC strip curtains, acrylic panels, HEPA Fan Filter Upgrade Kits, and laser safety panels, and hanging shelf (all sold separately below), as well as Thorlabs' 50 mm & 75 mm construction rail accessories, including T-nuts and screws, mounting brackets and feet, rail joiners, and channel inserts. These accessories aid in the creation of a custom work environment surrounding the optical table surface. For lighting, we also offer the PSY240E LED light strip (sold separately below).

## Interested in Custom Capabilities?

Thorlabs is in the process of expanding our offering of Enclosures and Laminar Flow Systems and accessories. If you are interested in features that you don't see here, please contact us to discuss custom requests.



Enclosure Frames are designed in our UK office.

- To prevent the frame toppling, any attached load which acts outside the perimeter of the frame should not create a moment load  $>330 \text{ N}\cdot\text{m}$  about an axis between any two of the feet.
- Do not put heavy objects on the roof. The maximum load per roof panel is a 40 kg distributed load.
- The adjustable feet allow  $\pm 11.5 \text{ mm}$  (0.45") adjustment on the height dimensions.

Part Number	Description	Price	Availability
LFE1220	Wraparound Enclosure Frame for 1.2 m x 2.0 m (4' x 6') Table	\$3,842.22	Lead Time

[Hide Walkway Enclosure Frame](#)

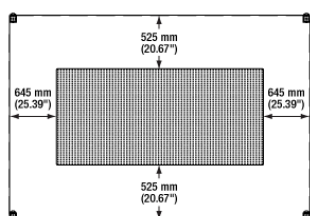
## Walkway Enclosure Frame



- Walkway Design Provides Space to Walk Around the Optical Table
- Designed to Fit a 1.2 m x 2.0 m (4' x 6') Nexus Optical Table

The LFE1220W Walkway Enclosure Frame is a free-standing frame with roof panels that also provides a walkway

around the optical table. While this enclosure can be used with any table that fits inside, they are specifically designed to work with a 1.2 m x 2.0 m (4' x 6') Nexus Optical Table: the enclosure will encompass 625 mm and 525 mm of walkway space on the short and long sides, respectively, of a 1.2 m x 2.0 m table (see drawing to the lower left).



Click to Enlarge  
Walkway Space Around a 1.2 m x 2.0 m Optical Table Inside the Enclosure

The frame does not touch the table in order to avoid the transmission of vibrations from the frame to the table. Castors are located at bottom of each leg of the enclosure and provide freedom of movement. Lowering

the feet of the enclosure allows it to remain stationary.

The frame is composed of rails that are compatible with our PVC strip curtain, the HEPA Fan Filter Unit Kits, and hanging shelf (sold separately below), as well as 50 mm & 75 mm construction rail accessories, including T-nuts and screws, mounting brackets and feet, rail joiners, and channel inserts. These accessories aid in the creation of a custom work environment surrounding the optical table surface. For lighting, we also offer the PSY240E LED light strip (sold separately below).

## Interested in Custom Capabilities?

Thorlabs is in the process of expanding our offering of Enclosures and Laminar Flow Systems and accessories. If you are interested in features that you don't see here, please contact us to discuss custom requests.



Enclosure Frames are designed in our UK office.

General Specifications	
Maximum Load on Roof (For Storage) <sup>a,b,c</sup>	210 kg (463 lbs)
Maximum Load per Construction Rail <sup>a,b,c</sup>	100 kg (220 lbs)
Total Weight of Enclosure	140 kg (309 lbs)
Packaged Weight	256 kg (564 lbs)
Foot Height Adjustment	-0 / +10 mm
Internal Dimensions (L x W x H) <sup>d</sup>	3140 mm x 2100 mm x 2026.6 mm
Frame Dimensions (L x W x H) <sup>d</sup>	3290 mm x 2250 mm x 2107.6 mm
Crate Dimensions	3.20 m x 0.90 m x 0.41 m

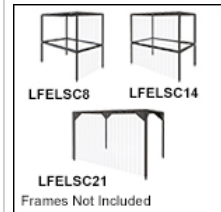
- Maximum load rating applies only when the frame is stationary and is resting on the rubber feet of the casters. When the rubber feet are raised and the frame rests on the caster wheels (i.e. when moving the frame), ensure that no additional loads are attached to the LFE frame.
- To prevent the frame toppling, any attached load which acts outside the perimeter of the frame should not create a moment load  $>850 \text{ N}\cdot\text{m}$  about an axis between any two of the feet.
- Do not put heavy objects on the roof. The maximum load per roof panel is a 40 kg distributed load.
- The adjustable casters allow -0 / +10 mm (-0 / +0.39") adjustment on the height dimensions.

Part Number	Description	Price	Availability

LFE1220W	Walkway Enclosure Frame for 1.2 m x 2.0 m (4' x 6') Table	\$6,531.76	Today
----------	---	------------	-------

[Hide Transparent Strip Curtain Walls](#)

### Transparent Strip Curtain Walls



- ▶ Transparent PVC Curtains Attach to Top Rails of Enclosure Frames
- ▶ Individual Strip Dimensions: 1972.5 mm x 200 mm x 2 mm
- ▶ Kits Available with 8, 14, or 21 Strips to Fit Sides of Frames

Item #	# of Strips	Covered Dimensions	Compatible Frame(s)
LFE1220W	8	1937.5 mm x 1240.2 mm	LFE1220, Short Side
LFE1220	14	1937.5 mm x 2131.8 mm	LFE1220, Long Side LFE1220W, Short Side
LFE1220W	21	1937.5 mm x 3172.0 mm	LFE1220W, Long Side

These curtain kits add plastic barriers on the sides of our LFE1220 and LFE1220W Frame Enclosures. Each kit incorporates a number of soft wall transparent curtain panels which can be used to shield the fitted side from passing traffic and other interference. When combined with other components, e.g. a HEPA Fan Filter Unit (FFU), these kits can also be used to create a laminar flow environment inside the enclosure. The strips attach to the top rails of the frames using included hardware. Four separate kits are required to completely enclose each frame (two LFE1220W kits and two LFE1220 kits for the LFE1220 frame; two LFE1220 kits and two LFE1220W kits for the LFE1220W frame). Furthermore, the transparent strip curtain kits can be used with acrylic panel kits, which are sold below, to create an enclosure with up to three solid sides on the LFE1220 wraparound frame.

Part Number	Description	Price	Availability
LFE1220W	Transparent Strip Curtain Kit for Short Side of LFE1220 Frame	\$400.70	Lead Time
LFE1220	Transparent Strip Curtain Kit for Long Side of LFE1220 Frame or Short Side of LFE1220W Frame	\$653.18	Lead Time
LFE1220W	Transparent Strip Curtain Kit for Short Side of LFE1220W Frame	\$960.55	Today

[Hide Acrylic Panels for LFE1220 Wraparound Frames](#)

### Acrylic Panels for LFE1220 Wraparound Frames



- ▶ Create a Solid-Walled Enclosure on LFE1220 Frames
  - ▶ Two LFE1220 and One LFE1220W are Needed to Build a 3-Sided Enclosure
  - ▶ Can Be Used with the Transparent Strip Curtains and the HEPA Fan Filter Units to Create a Clean Environment
- ▶ Sturdy Acrylic Plastic Construction with Half the Weight of Glass and High Resistance to Wear
- ▶ Each Kit Includes One Panel and Mounting Hardware

Item #	Panel Dimensions (W x L)	Compatible Frame	Weight <sup>b</sup>	Panel Material
LFE1220	1220.0 mm x 1067.0 mm (48.03" x 42.01")	LFE1220 <sup>a</sup> , Short Side	5 kg (11.0 lbs)	Acrylic Plastic (PPMA)
LFE1220W	2090.0 mm x 1067.0 mm (82.28" x 42.01")	LFE1220 <sup>a</sup> , Long Side	10 kg (22.0 lbs)	

- The panels can also be used with the LFE1220-US, LFE1220-UK, and LFE1220-EU Laminar Flow Enclosures, as these are based on an LFE1220 Frame.
- Includes panel, handles, and mounting hardware.

Thorlabs' LFE1220 and LFE1220W acrylic panel kits allow a solid-walled enclosure to be fitted to the LFE1220, LFE1220-US, LFE1220-UK, and LFE1220-EU enclosure frames. Each kit comes with one acrylic plastic panel and all of the hardware necessary to mount it; two handles that can be attached to the panel for assistance with positioning during installation are among the included parts. The panel weighs half as much as a glass panel of equal size and has a high resistance to wear, making it suitable for enclosing a variety of different workstation setups.

Part Number	Description	Price	Availability
LFE1220	Acrylic Panel Kit for Short Side of LFE1220 Frames, 1.2 m x 1.1 m Panel	\$584.34	Today
LFE1220W	Acrylic Panel Kit for Long Side of LFE1220 Frames, 2.1 m x 1.1 m Panel	\$813.96	Today

[Hide HEPA Fan Filter Unit Upgrade Kits](#)

### HEPA Fan Filter Unit Upgrade Kits

- ▶ Use with Transparent Strip Curtain Kits or Acrylic Panel Kits to Create a Clean Environment within an LFE1220 or LFE1220W Enclosure Frame



- ▶ EU and US Versions Offered
  - ▶ -US Versions are Rated for 115 V
  - ▶ -EU Versions are Rated for 230 V
- ▶ Fan Filter Unit Efficiency: 99.95%

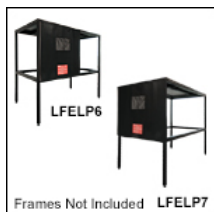
These HEPA fan filter unit upgrade kits can be mounted on LFE1220 or LFE1220W Enclosure Frames to enable the creation of clean environments. A complete system should include an LFE1220 or LFE1220W enclosure frame, a transparent strip curtain or acrylic panel on each side of the frame, and at least one HEPA fan filter unit. Each kit comes with one (Item # Prefix LFEF1) or two (Item # Prefix LFEF2) fan filter units, as well as the flanges, hex keys, and wrenches necessary for installation. Additionally, the LFEF1 kits come with brackets and handles which make it easier to lift the fan filter units. Each HEPA filter unit has an efficiency of 99.95%, and Thorlabs sells units rated for 115 V or 230 V. Please note that cables are not provided. Assembly and wiring of the filter should be carried out as per local regulations. For more information, please refer to the manual shipped with each kit. For replacement filters, contact Tech Support.

Item #	Voltage Rating	Number of Fan Units	Compatible Frame	Total Weight on Frame	Crate Dimensions	Packaged Weight
LFEF1-US	115 V	1	LFE1220	35.4 kg (78.0 lbs)	1.36 m x 0.71 m x 0.55 m	41.0 kg (90.4 lbs)
LFEF2-US		2	LFE1220W	66.9 kg (147.5 lbs)	1.36 m x 0.71 m x 0.93 m	118.5 kg (261.2 lbs)
LFEF1-EU	230 V	1	LFE1220	35.4 kg (78.0 lbs)	1.36 m x 0.71 m x 0.55 m	41.0 kg (90.4 lbs)
LFEF2-EU		2	LFE1220W	66.9 kg (147.5 lbs)	1.36 m x 0.71 m x 0.93 m	118.5 kg (261.2 lbs)

Part Number	Description	Price	Availability
LFEF1-EU	HEPA Fan Filter Upgrade Kit with Accessories for LFE1220 Frames, Rated for 230 V	\$2,591.82	2 Weeks
LFEF2-EU	HEPA Fan Filter Upgrade Kit with Accessories for LFE1220W Frames, Rated for 230 V	\$4,712.40	2 Weeks
LFEF1-US	HEPA Fan Filter Upgrade Kit with Accessories for LFE1220 Frames, Rated for 115 V	\$2,591.82	Today
LFEF2-US	HEPA Fan Filter Upgrade Kit with Accessories for LFE1220W Frames, Rated for 115 V	\$4,712.40	Today

[Hide Laser Safety Panels for LFE1220 Enclosure Frames](#)

## Laser Safety Panels for LFE1220 Enclosure Frames



- ▶ Laser Safety Fabric Panels are Certified to EN 12254: 2010(E)\*
- ▶ Flame Retardant
- ▶ Magnetic Strips Allow the Panels to Link Together
- ▶ Kits Include All Hardware Needed to Mount Panels to the LFE1220 Frame
- ▶ Six Panels Required for Complete LFE1220 Frame Coverage:
  - ▶ Four LFELP6 Panels for Long Sides
  - ▶ Two LFELP7 Panels for Short Sides

Item #	Panels	Covered Dimensions	Compatible Frame
LFELP6 <sup>a</sup>	1	1170.0 mm x 1202.5 mm	LFE1220, Long Side
LFELP7	1	1402.0 mm x 1202.5 mm	LFE1220, Short Side

- a. Two LFELP6 Laser Safety Panels are needed for full coverage of each long side of the LFE1220 Enclosure Frame.

Each Laser Safety Panel Kit includes a laser safety fabric panel and all of the hardware needed to mount it to the 75 mm rails that make up the LFE1220 Enclosure Frame. Each panel is made from a rubber compound material, which is also used to make Thorlabs' Laser Safety Fabric and Safety Panels for Optical Enclosures. This material is both flame retardant and certified to EN 12254: 2010(E)\*. These panels can be mounted to the LFE1220 using the included attachment bar and 2.5 mm hex key. Separate panels can connect via magnetic strips, and six are needed for total coverage of an LFE1220 frame (two LFELP6 panels for each long side and one LFELP7 for each short side). The back of the panels come with straps to hold them open when their coverage is not needed. The front of each laser safety panel includes a document pocket and a card which specifies the part number, manufacture date, and protection levels provided at specific wavelengths. Thorlabs also offers Laser Safety Curtain Systems that can be used to enclose larger spaces.

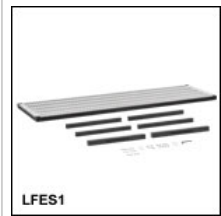
### \*DISCLAIMER

The laser safety fabric in the Laser Safety Panel Kits has been tested by a third party using EN specifications; see the *Panel Certifications* tab above for details. Due to manufacturing variances, mechanical wear, and laser damage, Thorlabs assumes no responsibility for laser material failure. Please consult your local laser safety specialist before purchasing to ensure that the fabric is suitable for your application. To minimize risk, inspect the material before each use and ensure that it is in excellent condition.

Part Number	Description	Price	Availability
LFELP6	Laser Safety Panel Kits for Long Side of LFE1220 Frame	\$712.22	Today
LFELP7	Laser Safety Panel Kits for Short Side of LFE1220 Frame	\$765.77	Today



Shelf for Enclosure Frames



- Provides Additional Storage Space within LFE1220 and LFE1220W Enclosure Frames and LFE1220 Series Laminar Flow Enclosures
- Multiple Shelves can be Stacked for Increased Storage Space
- Shelf Panel is Slotted to Assist in the Preservation of Laminar Flow within the Enclosure

General Specifications	
Maximum Load <sup>a</sup>	70.0 kg (154.0 lbs)
Shelf Dimensions (W x L)	350.0 mm x 1175.0 mm (13.78" x 46.26")
Shelf Weight <sup>b</sup>	6.74 kg (14.83 lbs)
Shelf Hanging Height <sup>c</sup>	403.0 mm (15.87")



Click to Enlarge  
Stacked LFES1 Shelves for  
Laminar Flow Enclosure  
Frames

The LFES1 Hanging Shelf provides additional storage space within our LFE1220 and LFE1220W Enclosure Frames and LFE1220 Series Laminar Flow Enclosures. The shelf panel is slotted to improve airflow for mounted equipment as well as preserve laminar flow within the enclosure. To mount the shelf, the top-bar of the shelf's hanging frame can be connected two adjacent T-slots in the rails that support the enclosure frame's ceiling using the included mounting hardware. The shelf features 403.0 mm of vertical space from the shelf surface to the top of the mounting cross bars, and the height can be adjusted by swapping out the included vertical hanging bars with 25 mm rail extrusions of a different length. For additional shelving space, multiple hanging shelf units can be stacked, as shown in the image to the right.

- a. This is the maximum load of the hanging shelf. Be careful not to exceed the maximum loads of the enclosures that are specified above.
- b. Includes Hanging Bars and Mounting
- c. Equipment With Included Hanging Bars

Part Number	Description	Price	Availability
LFES1	Hanging Shelf with Mounting Hardware for Enclosure Frames	\$551.57	Today

LED Light Strip



- 850 mm (33.46") Long
- 4.3 m Extension Cable
- Sturdy Aluminum Base Resists Warping
- Frosted Plastic Cover Ensures Even Spread of Light
- Shipped with 3 Spring Clips, 3 T-Nuts, 3 M6 Screws, 4.3 m Extension Cable, and a Power Supply

Specifications	
Brightness	1530 Lumens
# of LEDs	51
Power <sup>a</sup>	15.3 W
Voltage	12 VDC (Power Supply Included)
Dimensions	850 mm x 17.4 mm x 8.2 mm <sup>b</sup> (33.46" x 0.69" x 0.32")

This rigid LED light strip is 850 mm (33.46") long, comes with a 4.3 m extension cable, and is held in place by three spring clips. It is compatible with the enclosures above and can also be used with racks or shelves, such as our Free-Standing Overhead Shelf or our Nexus Table Frame Overhead Shelves. The strip lights can also be mounted over a bench for general laboratory use.

- a. Power usage per LED is 0.3 W.
- b. A 4.3 m extension cable is included.

Part Number	Description	Price	Availability
PSY240E	850 mm (33.46") LED Light Strip with 4.3 m Extension	\$144.91	Today