

TUBE GUARDS

STANDARD TUBE GUARDS

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The Standard Tube Guard is a light stabilized polycarbonate and has 0% transmittance below 365 nanometers (Clear Tube Guards only). Available Colors: Clear, Amber, Red, Green, Yellow and Blue. Available Sizes: T5, T8, and T12.

- An efficient economical solution where fluorescent lamp breakage would be hazardous to personnel, product, equipment or animals.
- Slip over fluorescent lamps to retain shattered glass and control the release of mercury vapor and phosphorescent material.
- Constructed of unbreakable lexan polycarbonate.
- "Cut-to-order" custom lengths are also available. Contact our Inside Sales Department (800.336.1976 or sales@engproducts.com) for more information.

T5 HD SERIES TUBE GUARDS

Using T5 lamps is a cost-effective lighting systems solution for a variety of reasons. Unfortunately the average T5 lamp will dissipate about 73% of its total lamp power as heat. And when this lamp is used in combination with a tube guard, that heat must be properly dissipated from the lamp.

Our T5 HD (Heat Dissipation) Series Tube Guard takes into consideration two major factors; the temperature on the inside of the tube guard, and how close the T5 lamp is actually located to the tube guard.

- Our T5 HD Series Tube Guard's larger diameter and its "vented" End Caps allow a layer of air to absorb heat from the lamp and cool it before making contact with the inside wall of the tube guard. This results in a 25°F (-4°C) temperature drop.*
- The larger diameter of the T5 HD Series Tube Guard allows it to accommodate Heat Sink to control and distribute heat, in addition to lowering the temperatures over a larger area on the end of the tube guard.

Note: We strongly recommend using Heat Sink with our T5 HD Series Tube Guards. Part Numbers 17185 and 17186 arrive with the Heat Sink built into the Tube Guard. See photo to the right below.

- The combination of the T5 HD Series Tube Guard, "vented" End Caps, and Heat Sink lower the inside temperature of the tube guard approximately 30°F (-1°C).**
- Together, these components provide a unique operational advantage over other competitors T5 tube guards and still fits all T5 lamp applications.

TEMPERATURE TESTING

CONFIGURATION	TEMPERATURE*
Competitors T5 Tube Guard	215°F (102°C)
T5 HD Series Tube Guard and "Vented" End Caps	190°F (88°C)*
T5 HD Series Tube Guard, "Vented" End Caps and Heat Sink	185°F (85°C)**

***Note:** The temperature is measured on the inside surface of the Tube Guard. The ambient testing temperature was 72°F (22°C) using a T5 F54 HO Lamp.

Fast, Efficient and Repeatable Results

EPCO always recommends using "Heat Sink" when installing T5 HD Series Tube Guards. Heat sink helps distribute excessive heat on both ends of the fluorescent lamp. But when installing a large number of tube guards and heat sink combinations, time is money.

High volume installers can now reduce their installation time by using our T5 HD Series Tube Guard with "pre-installed" Heat Sink. In addition to saving time and money, EPCO's T5 HD Series Tube Guard with "pre-installed" Heat Sink provide a convenient and economical solution to expedite the installation by eliminating the process of having the contractor pre-roll two (2) Heat Sinks (per tube guard).

Simply insert the lamp into the T5 HD Series Tube Guard, insert the "vented" end cap on each end of the tube guard and install the "tubed" lamp into the luminaire.



STANDARD TUBE GUARDS

TYPICAL APPLICATIONS:

- Food Processing Facilities
- Commercial Kitchens
- Grocery Stores
- Laundries
- Industrial Facilities
- Saunas
- Car Washes
- Storage Buildings
- Pedestrian and Road Tunnels
- Parking Garages
- Elevator Shafts
- Refrigerators and Freezers
- Locker Rooms
- And more...

T5 HD Series Tube Guard with Built-In Heat Sink

T5 HD Series "Vented" End Cap

Stopper

Part Numbers 17185 and 17186

Note: T5 HD Series Tube Guards, Part Numbers 17185 and 17186, are bundled with the T5 HD Heat Sink built into the Tube Guard as shown above.

YELLOW TUBE GUARDS - How do they work?

Insects and humans have different visual perceptions. Light sources that radiate ultraviolet energy and blue light are most attractive to insects. Light sources that insects have a difficult time seeing are “yellow” hues in the color spectrum. Our yellow tube guards will minimize the number of insects.

TYPICAL APPLICATIONS

- Commercial businesses that maintain night-time operations such as gas stations, fast food restaurants, etc.
- Commercial food preparation and serving areas
- Parking lots loading areas
- Airport, Train and Bus Stations
- Building entrances
- Decks and patios



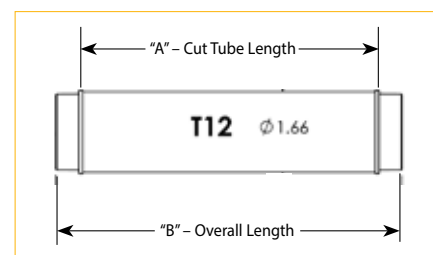
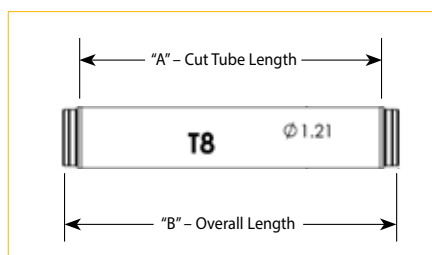
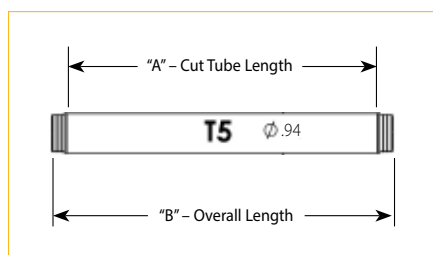
YELLOW TUBE GUARDS

STANDARD and UV FILTERING TUBE GUARD DIMENSIONS

T5 HD SERIES TUBE GUARDS		
DIM. "A"	DIM. "B"	NOMINAL LENGTH
44.68	45.27	4'

T8 TUBE GUARDS		
DIM. "A"	DIM. "B"	NOMINAL LENGTH
46.38	47.10	4'
68.38	69.10	6'
92.38	93.10	8'

T12 TUBE GUARDS		
DIM. "A"	DIM. "B"	NOMINAL LENGTH
45.97	47.10	4'
67.97	69.10	6'
91.97	93.10	8'



Note: Dimension "B" includes End Caps.

STANDARD TUBE GUARD END CAPS (BLACK)

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/ Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
17103	17103	Standard End Caps: for T5 HD Series, "Vented"	BG	48	BG	0	0	48	Yes	1
17100	17100	Standard End Caps: for T8 Tube Guard	BG	48	BG	0	0	48	Yes	1
17101	17101	Standard End Caps: for T12 Tube Guard	BG	48	BG	0	0	48	Yes	1

Note: End Caps for T5 HD Series, T8 and T12 Tube Guards fit inside the Tube Guard.



UNITS OF MEASURE KEY Order Unit: The Unit to be ordered; Unit Qty: Number of pieces in each Unit; Unit Pkg: Unit Packages contained in the case - Packaging types - BG (Bag), BRL (Barrel), BX (Box), BN (Bulk), PKG (Package), EA (Each), RL (Roll), LB (Pound), C (Hundred), M (Thousand); Units/Case: Unit packages contained in the Case; TL Case Qty: The total number of items in each Master Case; Min Order Qty: The smallest Unit that can be ordered; MM Req: Must order multiples of the Unit in the stated quantities; Ship Wt (Lbs): Total weight of the units per Carton

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/ Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
4-Foot T5 HD Series Tube Guard										
17183*	17183	Clear Polycarbonate: with "Vented" Black End Caps	EA	1	BX	48	48	48	Yes	6
17184*	17184	Clear Polycarbonate: with "Vented" Black End Caps	EA	1	BX	120	120	120	Yes	16
17194†	17194	Amber Polycarbonate: with "Vented" Black End Caps	EA	1	BX	24	24	24	Yes	4
17195†	17195	Red Polycarbonate: with "Vented" Black End Caps	EA	1	BX	24	24	24	Yes	4
17196†	17196	Green Polycarbonate: with "Vented" Black End Caps	EA	1	BX	24	24	24	Yes	4
17197†	17197	Blue Polycarbonate: with "Vented" Black End Caps	EA	1	BX	24	24	24	Yes	4
17199†	17199	Yellow Polycarbonate: with "Vented" Black End Caps	EA	1	BX	24	24	24	Yes	4
4-Foot T5 HD Series Tube Guard with Built-In Heat Sink										
17185**	17185	Clear Polycarbonate: with "Vented" Black End Caps and built-in Heat Sink	EA	1	BX	48	48	48	Yes	7
17186**	17186	Clear Polycarbonate: with "Vented" Black End Caps and built-in Heat Sink	EA	1	BX	120	120	120	Yes	17
4-Foot T8 Tube Guard										
17000	17000	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
17005	17005	Amber Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
17010	17010	Red Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
17015	17015	Green Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
17020	17020	Blue Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
17025	17025	Yellow Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	6
6-Foot T8 Tube Guard										
17050	17050	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	8
8-Foot T8 Tube Guard										
17030	17030	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
17031	17031	Amber Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
17032	17032	Red Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
17033	17033	Green Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
17034	17034	Blue Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
17035	17035	Yellow Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
4-Foot T12 Tube Guard										
17060	17060	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	7
6-Foot T12 Tube Guard										
17040	17040	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10
8-Foot T12 Tube Guard										
17090	17090	Clear Polycarbonate: with Black End Caps	EA	1	BX	24	24	24	Yes	10

- Note:** *1. Standard Tube Guards are sold ONLY in case quantities of 24 per Carton. We will not break case carton quantities!
The exception is the T5 HD Series - Clear, which is available in carton quantities of 48 and 120 Units (P/Ns: 17183, 17184, 17185 and 17186).
- **2. T5 HD Series Tube Guards, Part Numbers 17185 and 17186 include the built-in T5 HD Heat Sink.
- †3. Indicates long lead time. Contact our Inside Sales Department (800.336.1976 or sales@engproducts.com) for more information.
4. Standard Tube Guards are not intended for use with HO or VHO Lamps! The exception is the T5 HD Series Tube Guard that is rated for use with a T5 HO Lamp.
5. Tube Guards, other than sizes and colors listed, can be special ordered. Contact our Inside Sales Department (800.336.1976 or sales@engproducts.com) for more information.



EPCO Standard Tube Guards are Made in the USA.
Complies with the American Recovery and Reinvestment Act – Buy American Provision.

UNITS OF MEASURE KEY Order Unit: The Unit to be ordered; Unit Qty: Number of pieces in each Unit; Unit Pkg: Unit Packages contained in the case - Packaging types - BG (Bag), BRL (Barrel), BX (Box), BN (Bulk), PKG (Package), EA (Each), RL (Roll), LB (Pound), C (Hundred), M (Thousand); Units/Case: Unit packages contained in the Case; TL Case Qty: The total number of items in each Master Case; Min Order Qty: The smallest Unit that can be ordered; MM Req: Must order multiples of the Unit in the stated quantities; Ship Wt (Lbs): Total weight of the units per Carton