

# Outstanding performance and reliability

## TuffGuard Coated T8

When you select Philips TuffGuard™ Fluorescent lamp with ALTO® lamp technology, you are reducing the impact on the environment, while the coating helps to protect your customers, employees, and reputation. Philips TuffGuard™ fluorescent lamps meet sustainability requirements because they reduce the impact on the environment with low mercury, energy efficiency and long life. The patented green endcaps mean you're using ALTO low-mercury technology. The 16 mils thick coating on TuffGuard™ fluorescent lamps forms a protective seal from end to end and is guaranteed to last the average rated life of the lamp under specific conditions

### Benefits

- Sustainable Lighting Solution - Philips TuffGuard lamps reduce the impact on the environment with low mercury.
- Energy Efficient for a greener, brighter future.
- Long Life to assist with lowering your maintenance costs and reducing waste.

### Features

- Keeps broken glass contained
- Coating will not yellow, crack, or flake
- Reduces the impact on the environment: Low mercury, Energy efficient, Long life
- Warranty: Coating Guaranteed to Last the Average Rated Life of the Lamp
- Lighting Required to be Shielded or Otherwise Protected in Food Service and Food Processing Areas
- 15,17,25,30,32,40,48,96 watts with 3000,3500,4100,4200,5000, and 6500, color temperatures

### Application

- Ideal for food processing/services, manufacturing, and hospitals.

# TuffGuard Coated T8

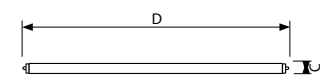
## Versions



G13, T8

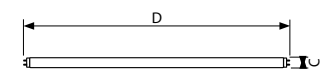
FA8, T8

## Dimensional drawing



Product
F96T8/TL841 PLUS/ALTO TG 25PK

Product
F32T8/ADV841 ALTO TG 30PK



Approval and Application	
Energy Saving Product	Energy Saving
Light Technical	
Correlated Color Temperature (Nom)	4100 K
Color Rendering Index (Nom)	85
Mechanical and Housing	
Bulb Shape	T8

## Approval and Application

## TuffGuard Coated T8

Order Code	Full Product Name	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour
283390	F32T8/ADV841 ALTO TG 30PK	1.7 mg	24 pg/lm.h

Order Code	Full Product Name	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour
409094	F96T8/TL841 PLUS/ALTO TG 25PK	4.4 mg	33 pg/lm.h

### Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
283390	F32T8/ADV841 ALTO TG 30PK	32 W

Order Code	Full Product Name	Power (Rated) (Nom)
409094	F96T8/TL841 PLUS/ALTO TG 25PK	59 W

### General Information

Order Code	Full Product Name	Cap-Base	Life 12-Hr Start [Hrs]	Life 3-Hr Start [Hrs]	Life 12-Hr Instant Start [Hrs]	Life 12-Hr Programstart [Hrs]	Life 3-Hr Instant Start [Hrs]	Life 3-Hr Program Start [Hrs]
283390	F32T8/ADV841 ALTO TG 30PK	G13	-	-	30000 h	36000 h	24000 h	30000 h
409094	F96T8/TL841 PLUS/ALTO TG 25PK	FA8	30000 h	24000 h	-	-	-	-

### Light Technical

Order Code	Full Product Name	Color Code	Color Designation	Design Mean Lumens	Luminous Flux (Nom)
283390	F32T8/ADV841 ALTO TG 30PK	Advantage 841	Advantage 841	3000 lm	3100 lm
409094	F96T8/TL841 PLUS/ALTO TG 25PK	TL841	TL841	5490 lm	5900 lm

