

# 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.

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# Versions



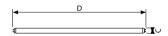
G13, T8 FA8, T8

# Dimensional drawing





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	1.7 mg	24 pg/lm.h
	30PK		

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

# 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**

			Life 12-Hr Start	Life 3-Hr Start	Life 12-Hr Instant	Life 12-Hr Programstart	Life 3-Hr Instant	Life 3-Hr Program
Order Code	Full Product Name	Cap-Base	[Hrs]	[Hrs]	Start [Hrs]	[Hrs]	Start [Hrs]	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**

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



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