

MODEL C

The most versatile counterweight guide in the industry

Patented design features on the Model C roller guide ensure counterweights in high speed applications run just as quietly in the hoistway as the car. Slim design allows for use on a wide range of elevator applications and rail sizes, and it can even be used as a car guide where a smaller roller is required for clearance.

Designed for elevator counterweights up to 1,200 fpm or 10,000 lbs capacity in mid- to high-rise buildings.

The Model C is a high-speed 6-wheel paired-roller guide with spring suspension, an adjustable stop on the face arm and six premium 3-1/4" diameter neoprene roller wheels.

Engineered and tested to meet ASME A17.1/CSA B44 and EN81 standards. ELSCO's Model C roller guide is constructed from precision machined, ductile iron castings and is assembled using quality parts to ensure your elevator ride will **GO UNNOTICED**.

EXCEPTIONAL APPLICATION RANGE

- › Designed as a counterweight guide for use at high speeds and capacities, while also minimizing the noise and vibration from the counterweight frame
- › Compact and slim design also allows this guide to be used on elevator cars where there are lateral clearance restrictions

MINIMIZED NOISE AND VIBRATION

1 Neoprene Rubber Roller Wheels

- › Precision manufactured using ELSCO's proprietary neoprene rubber tread compound
- › 65A durometer tread dampens vibration and reduces noise even in high-speed applications
- › Precisely ground tread profile provides a balanced and concentric roller
- › High-memory tread characteristics prevent flat spotting

2 Precision Ball Bearings

- › Industrial grade, high quality ball bearings will last for millions of cycles
- › Dual bearing construction provides the roller extra stability, ensuring a true ride, free of noise and vibration

OPTIMIZED RIDE QUALITY

3 Tandem-Roller Arms

- › 6-wheels give added stability that can easily handle higher speeds and capacities
- › 6-wheel design steps over misaligned rail joints minimizing counterweight or in-car vibration at high speeds

4 Fully Adjustable Stabilizing Springs

- › Independently adjust the pre-load force of the rollers on the rail to minimize bumps and vibration and ensure proper dampening
- › Allow for maximum adjustability to optimize reduction in peak-to-peak lateral forces which improves ride quality

5 Adjustable Stop

- › On the face arm allows control of the overall float of the counterweight between the rails in a post-to-post direction
- › Allows for precise final adjustments to deal with troublesome hoistway issues

DURABLE, ENGINEERED DESIGN

6 Robust Casting and Design Features

- › Machined grease groove around the hub ensures improved distribution of grease to reduce friction
- › Precisely machined castings ensure the final assembly is of the highest quality

QUICKER AND EASIER INSTALLATION

7 Innovative Design Features

- › Patented adjustment features are designed for quick and simple installation, reducing installation costs
- › Hub adjustment and adjustable stop assemblies are pre-installed at the factory
- › Face roller wheel rail pressure is easily adjusted to recommended pressure by turning the hub adjustment screw



Model C
(EC18400)

APPLICATIONS TABLE

Find the elevator type the roller guide will be used as a counterweight for. Next, find the intersection of the counterweight's speed and capacity to confirm the roller guide is recommended for the application.

		PASSENGER CAR COUNTERWEIGHT				HOSPITAL CAR COUNTERWEIGHT				FREIGHT/SERVICE CAR COUNTERWEIGHT			
SPEED		300	500	800	1200	250	500	800	1200	250	500	800	1200
fpm													
m/s		1.5	2.5	4.0	6.0	1.25	2.5	4.0	6.0	1.25	2.5	4.0	6.0
CAPACITY	≤3,500 lbs 1,600 kg												
	4,000 lbs 1,800 kg								▲				▲
	4,500 lbs 2,000 kg						▲						
	5,000 lbs 2,300 kg						▲					▲	
	6,000 lbs 2,700 kg					▲				▲			
	7,000 lbs 3,200 kg					▲				▲			
	8,000 lbs 3,600 kg					▲				▲			
	9,000 lbs 4,100 kg					●				●			
	10,000 lbs 4,500 kg					●				●			

Not every elevator is the same. If your application is not indicated in the red shaded area, please contact ELSCO Customer Service for expert application assistance.

▲ Green Polyurethane
● Red Polyurethane

ROLLER GUIDE RAIL COMPATIBILITY

● Compatible ◐ Check Clearance

		RAIL SIZES							
ISO ASME WIDTH		T82 5.75# 0.354" (9 mm)	T89 8# 5/8" (16 mm)	T90 5/8" (16 mm)	T114 11# 5/8" (16 mm)	T125 12# 5/8" (16 mm)	T127-1 12# 5/8" (16 mm)	T127-2 15# 5/8" (16 mm)	T140-1 18# 3/4" (19 mm)
PART #	EC18400		●	●	●	●	●	●	◐

RECOMMENDATIONS AND SPECIAL CONDITIONS

- In most applications the Model C is the recommended counterweight roller guide when the Model A is used as the car roller guide
- For elevators with higher capacity and speed applications, or if the car is heavily leaning or imbalanced, contact ELSCO Customer Service for guide selection recommendations

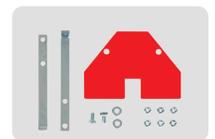
OPTIONAL ACCESSORIES

Flex-Mount™ Adjustable Adaptor Plate



(EC07100)

Cover Plate Kit



(EC18403)

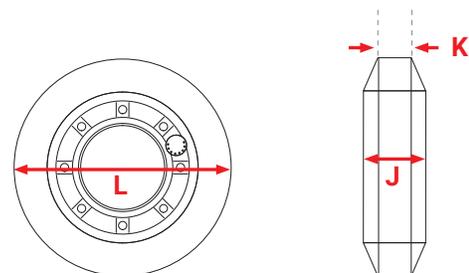
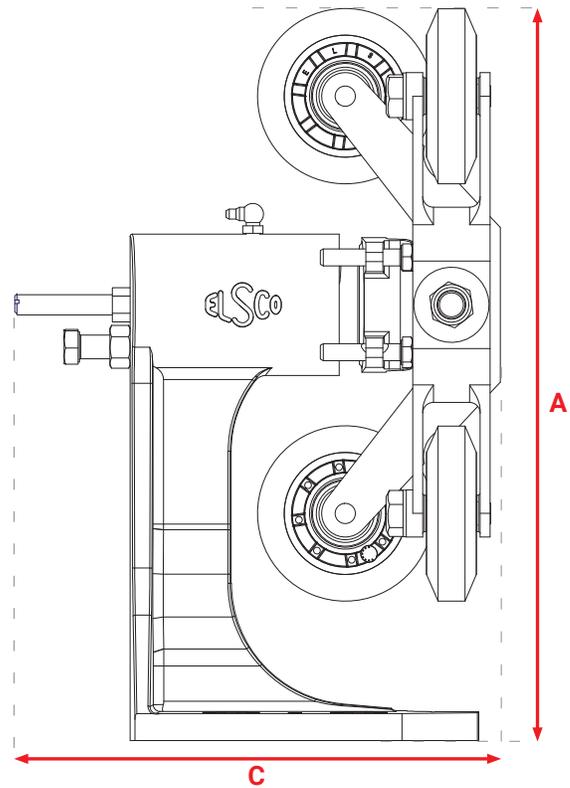
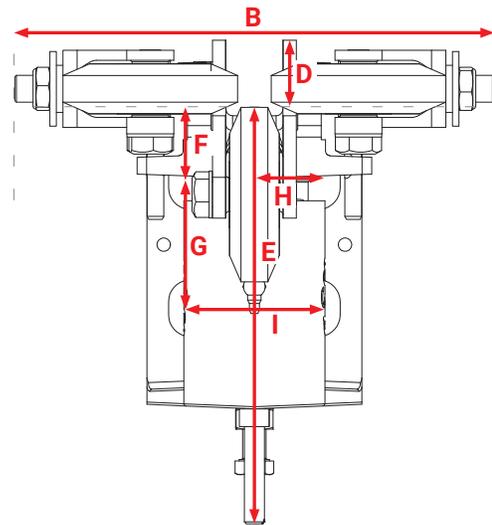
SEISMIC ACCESSORIES

Seismic plates must be installed if the guide is used to meet the elevator seismic requirements per ASME A17.1/CSA B44.19, section 8.4 in seismic risk zones 2 or greater. Seismic Flex-Mount™ Adjustable Adapter Plates can be used when mounting to pre-existing bolt patterns.

		RAIL SIZES					
ISO ASME		T82 5.75#	T89 8#	T114 11#	T125 12#	T127-1 12#	T127-2 15#
Seismic Plate		ED06005	ED06008	ED06011	ED06011 ◐	ED06012	ED06015
Seismic Flex-Mount™ Adjustable Adapter Plate			EC07100-S-8		EC07100-S-15 ◐		EC07100-S-15

CRITICAL DIMENSIONS

GUIDE MEASUREMENTS	
A - Height, overall	13-5/8" (345 mm)
Height, overall with optional Flex-Mount™	16-1/16" (407 mm)
Height, overall with optional Seismic Plate	14-1/8" (358 mm)
Height, minimum clearance with optional Cover Plate	14-3/16" (360 mm)
B - Width, overall	8-15/16" (227 mm)
C - Depth, overall	9" (229 mm)
D - Distance from front to face of rail	1-5/16" (32 mm)
E - Depth, from face of rail	7-3/4" (197 mm)
BOLT HOLE LOCATIONS	
F - Depth, from face of rail to center of bolt hole	1-3/8" (35 mm)
G - Distance between bolts on center, y-axis (post-to-post)	2-3/8" (60 mm)
H - Distance from center of face wheel to center of bolt	1-3/16" (30 mm)
I - Distance between bolts on center, x-axis	2-3/8" (60 mm)
MOUNTING BOLT HOLES	
Number of bolt holes	4
Bolt hole dimensions	1-1/16" x 13/16" (27 mm x 21 mm)
WEIGHT	
Each guide	21.7 lbs 9.88 kg
ROLLER WHEELS	
J - Width at hub	15/16" (24 mm)
K - Neoprene tread width - face & side arm	1/2" (12.7 mm)
L - Diameter	3-1/4" (83 mm)
Bearing I.D.	0.472" (12 mm)
Runout (total indicator reading)	0.002" (0.051 mm)



Scan here to learn more about the Model C Roller Guide and other ELSCO products.