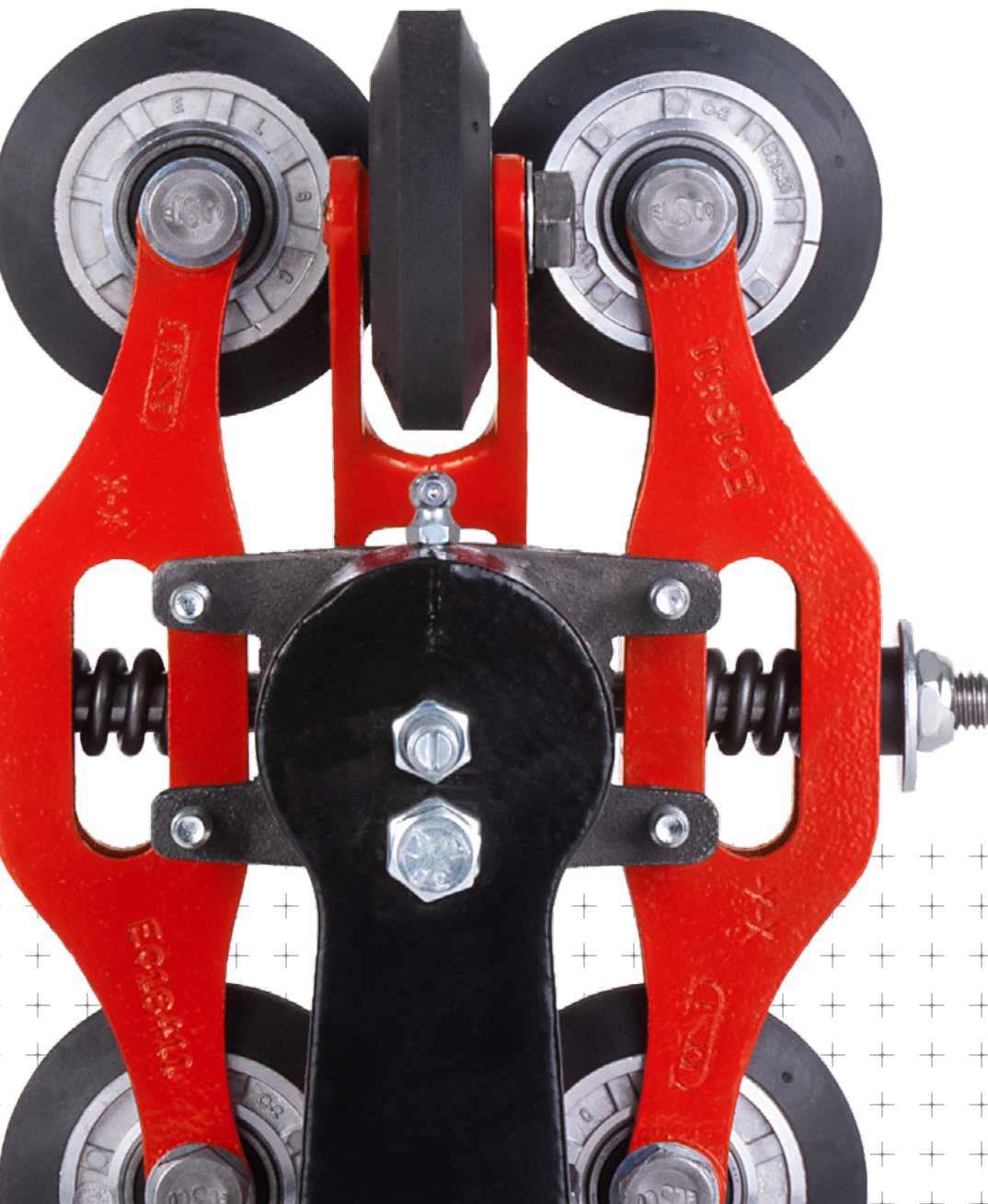




MODEL C

The most versatile counterweight guide in the industry

Patented design features on the Model C roller guide ensure counterweights in high speed applications operate just as quietly in the hoistway as the car. Its slim design makes it suitable for a wide range of elevator applications and rail sizes, and it can even serve as a car guide when a smaller roller is required for clearance.

Designed for elevator counterweights with speeds up to 1,200 fpm or capacities up to 10,000 lb in mid- to high-rise buildings.

U.S. Patent No. 11,407,615

The Model C is a high-speed six-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 EN 81 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 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

- › Six-wheels provide added stability that can easily handle higher speeds and capacities
- › Six-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 damping
- › 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 force is easily adjusted to recommended force by turning the hub adjustment screw



Model C
(EC18400)

APPLICATIONS TABLE

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

	PASSENGER CAR COUNTERWEIGHT				HOSPITAL CAR COUNTERWEIGHT				FREIGHT/SERVICE CAR COUNTERWEIGHT			
	300	500	800	1200	250	500	800	1200	250	500	800	1200
	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	fpm SPEED m/s											
	≤3,500 lb 1,600 kg											
	4,000 lb 1,800 kg							▲				▲
	4,500 lb 2,000 kg						▲					
	5,000 lb 2,300 kg						▲				▲	
	6,000 lb 2,700 kg					▲				▲		
	7,000 lb 3,200 kg					▲				▲		
	8,000 lb 3,600 kg					▲				▲		
	9,000 lb 4,100 kg					●				●		
	10,000 lb 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							
PART #	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)
	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 unbalanced, contact ELSCO Customer Service for guide selection recommendations

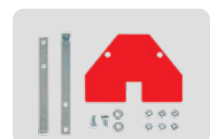
OPTIONAL ACCESSORIES

Flex-Mount™
Adjustable Adapter Plate



(EC07100)

Cover Plate Kit



(EC18403)

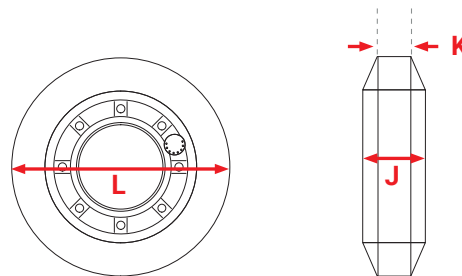
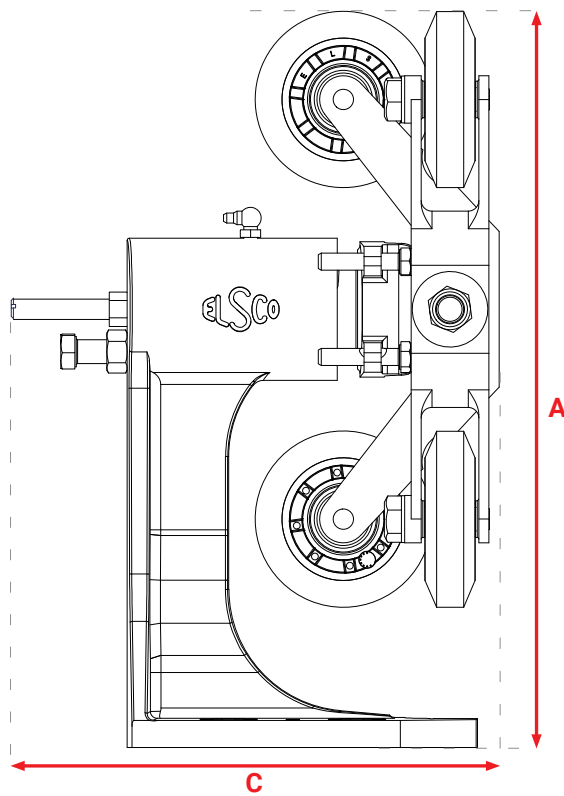
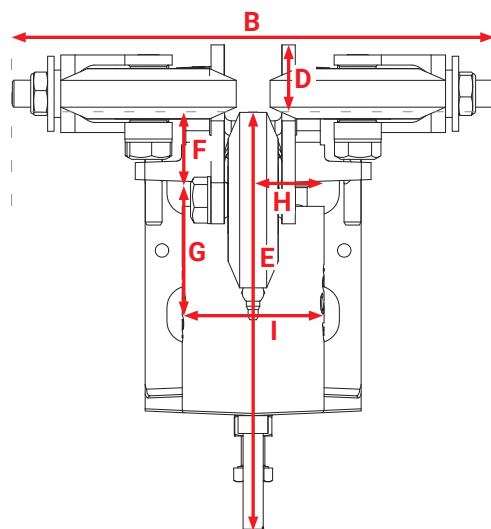
SEISMIC ACCESSORIES

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# 15#
Seismic Plate		ED06005	ED06008	ED06011	ED06012 ○	ED06012
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	1-1/4" (32 mm)
E - Depth, from face of rail	7-3/4" (197 mm)
BOLT SLOT LOCATIONS	
F - Depth, from face of rail to center of bolt slot	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 SLOTS	
Number of bolt slots	4
Bolt slot dimensions	1-1/16" x 13/16" (27 mm x 21 mm)
WEIGHT	
Each guide	21.7 lb 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.