

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 rollers.

Engineered and tested to meet ASME 17.1/ 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 design provides the roller extra stability to ensure a true ride, free of noise and vibration

OPTIMIZED RIDE QUALITY & FLOAT

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 horizontal 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 precision final adjustments to deal with troublesome hoistway issues

DURABLE, ENGINEERED DESIGN

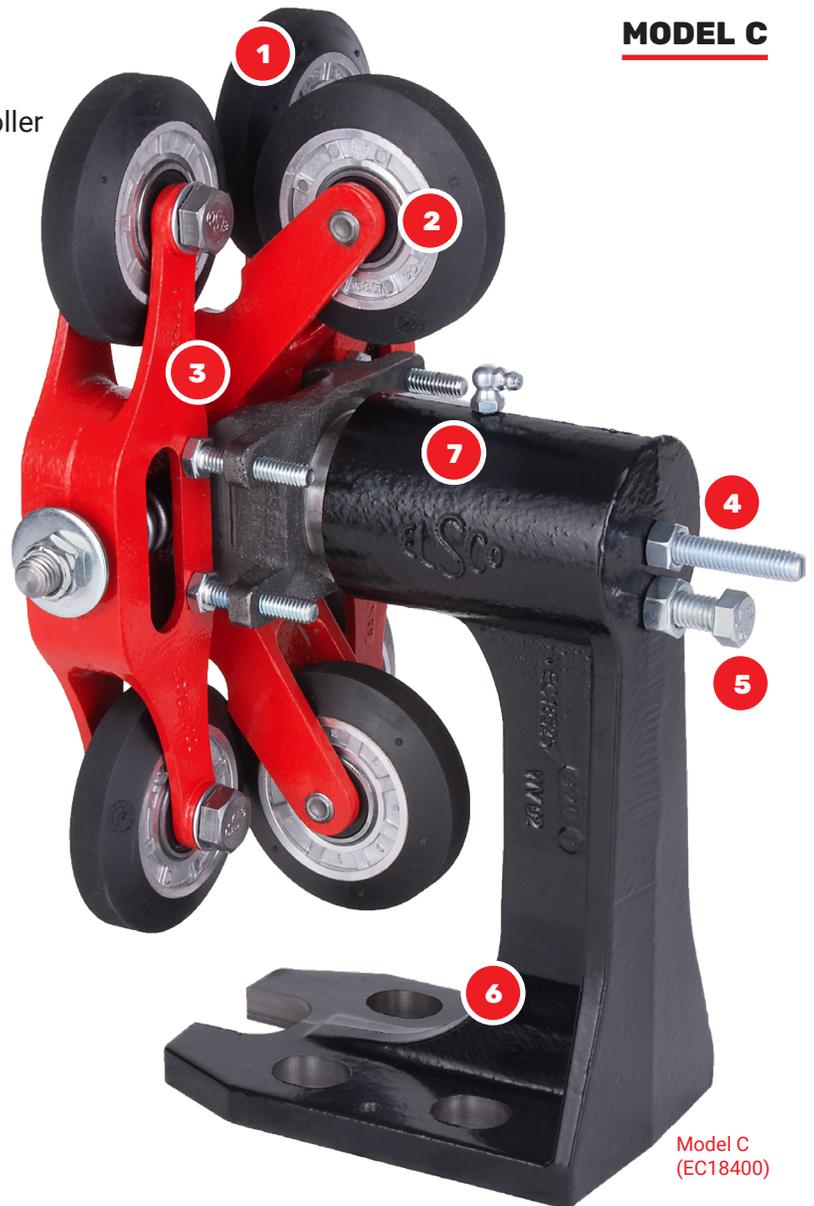
6 Robust Casting and Design Features

- › 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 & EASIER INSTALLATION

7 Innovative Design Features

- › Patented adjustment features are designed for quick and simple installation, reducing installation costs
- › Hub adjustment and Float adjustment 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 and verify the platform falls within the platform dimensions for that elevator. Next, find the intersection of the elevator'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	1.3	2.5	4.0	6.0	1.3	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					▲					▲			
	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		T78	T82	T89	T90	T114	T125	T127-1	T127-2	T140-1
WIDTH (in)		0.394	0.354	5/8	5/8	5/8	5/8	5/8	5/8	3/4
WIDTH (mm)		10	9	16	16	16	16	16	16	19
PART #	EC18400			●	●	●	●	●	●	

RECOMMENDATIONS AND SPECIAL CONDITIONS

- In most applications the Model C is the recommended counterweight for the Model A EA18300 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

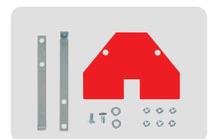
OPTIONAL ACCESSORIES

Flex-Mount™ Adjustable Adaptor Plate



(EC07100)

Cover Plate Kit



(EC18403)

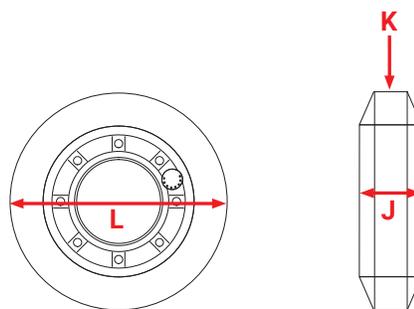
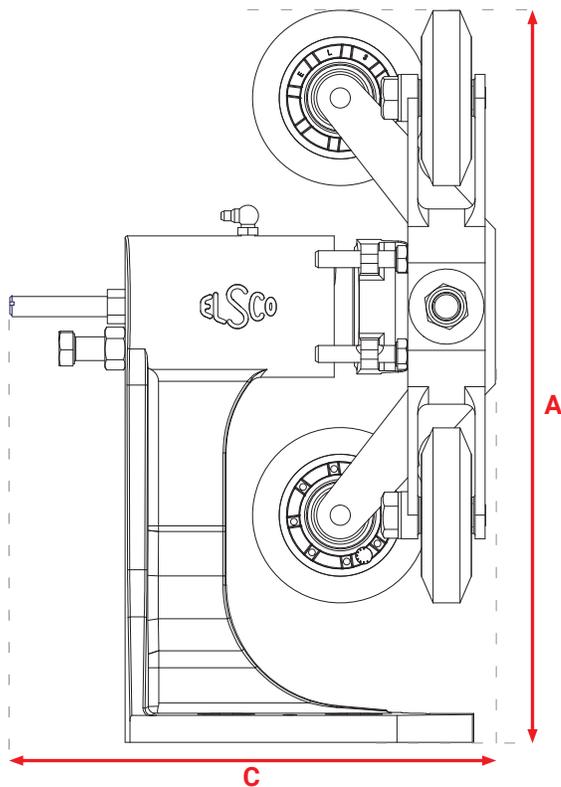
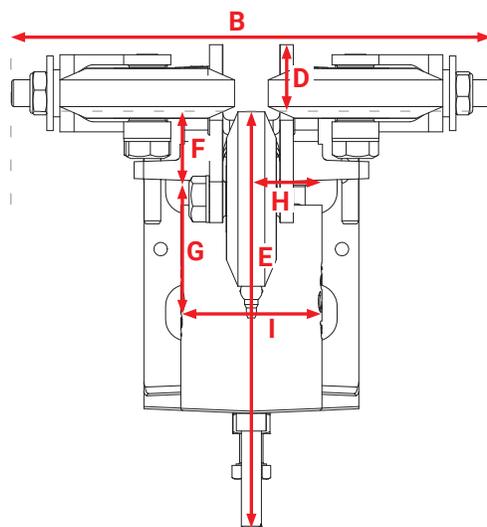
SEISMIC ACCESSORIES

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	T89	T114	T125	T127-1	T127-2
		5.75#	8#	11#	12#	12#	15#
Seismic Plate		ED06005	ED06008	ED06011		ED06012	ED06015
Seismic Flex-Mount™ Adjustable Adapter Plate			EC07100-S-8		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 (varies with adjustment)	1-5/16" (32 mm)
E - Depth, from face of rail	5-5/8" (143 mm)
BOLT HOLE LOCATIONS	
F - Depth, from face of rail to center of bolt hole	2-9/16" (65 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 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")



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