



MODEL D

The Industry's #1 choice of counterweight roller guide

Engineered to minimize noise and vibration that can adversely impact ride quality. The Model D is the counterweight partner to the Model B roller guide and features adjustable springs and premium neoprene rubber rollers to ensure the best overall ride quality for the elevator system.

Designed for elevator counterweights with speeds up to 500 fpm and capacities up to 4,000 lb in low- to mid-rise buildings.

The Model D is a three-wheel roller guide with adjustable spring suspension in all directions, and three 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 D roller guide is constructed from durable, precision-machined ductile iron castings and is assembled using quality parts to ensure your elevator ride will **GO UNNOTICED.**

EXCEPTIONAL VERSATILITY

- › Adjustable design and precision made components allow this guide to meet even the most demanding ride quality specifications
- › Primarily designed as a counterweight, ELSCO's Model D can also be used on light-load, lower-speed cars where the ride quality advantages of a spring-loaded guide with premium neoprene rubber rollers are desired

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
- › Precisely ground tread profile provides a balanced and concentric roller
- › High-memory tread characteristics prevent flat spotting
- › Excellent resistance to oils, chemicals and UV for extended life

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
- › Precision bearing press process during assembly at ELSCO ensures perfect fit, alignment and quality

EXCEPTIONAL RANGE OF ADJUSTABILITY

3 Fully Adjustable Stabilizing Springs

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

DURABLE, ENGINEERED DESIGN

4 Robust Casting and Design Features

- › Precisely machined castings ensure the final assembly is of the highest quality
- › Tested to meet applicable codes and standards ensuring the guides provide a lifetime of reliable performance



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				
fpm		200	300	400	500	200	300	400	500	200	250	300	400	500
SPEED														
m/s		1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5
CAPACITY	≤2,000 lb 900 kg													
	2,500 lb 1,100 kg													
	3,000 lb 1,400 kg													
	3,500 lb 1,600 kg													
	4,000 lb 1,800 kg													
	4,500 lb 2,000 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.												

ROLLER GUIDE RAIL COMPATIBILITY

● Compatible ◐ Check Clearance

PART #	RAIL SIZES									
	ISO	T82	T89	T90	T114	T125	T127-1	T127-2	T140-1	T140-2
	ASME	5.75#	8#		11#	12#	12#	15#	18#	22#
	WIDTH	0.354" (9 mm)	5/8" (16 mm)	5/8" (16 mm)	5/8" (16 mm)	5/8" (16 mm)	5/8" (16 mm)	5/8" (16 mm)	3/4" (19 mm)	1-1/8" (28.6 mm)
ED02000			●	●	●	●	●	●	●	

RECOMMENDATIONS AND SPECIAL CONDITIONS

- In most applications the Model D is the recommended counterweight roller guide when the Model B is used as the car roller guide
- The Model D can be used as a car guide in lower speed and weight applications
- Before installing on hydraulic elevators consult with ELSCO Customer Service
- 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

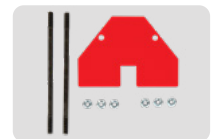
OPTIONAL ACCESSORIES

Flex-Mount™
Adjustable Adaptor Plate



(EC07100)

Cover Plate Kit



(ED02013)

SEISMIC ACCESSORIES

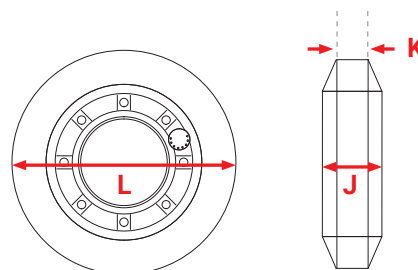
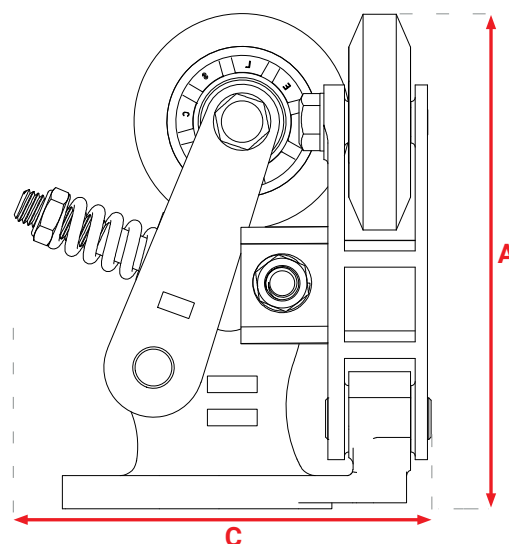
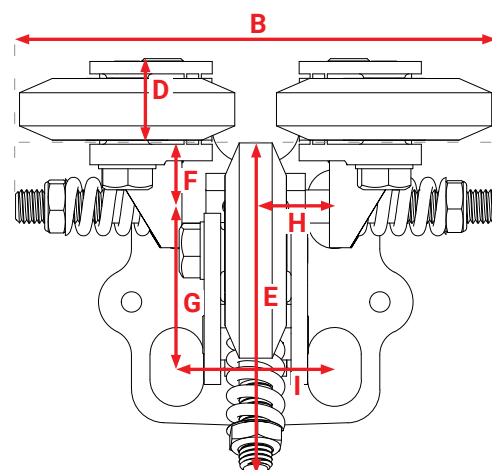
Seismic plates must be installed if the guide is used to meet the elevator seismic requirements per ASME A17.1/CSA B44.19, section 8.4 in seismic risk zones 2 or greater.

Seismic Flex-Mount™ Adjustable Adapter Plates can be used when mounting to pre-existing bolt patterns.

	RAIL SIZES					
ISO ASME	T89 8#	T114 11#	T125 12#	T127-1 12#	T127-2 15#	T140-1 18#
Seismic Retainer Plate	ED06008	ED06011	ED06012 	ED06012	ED06015	ED06018
Seismic Flex-Mount™ Adjustable Adapter Plate	EC07100-S-8	EC07100-S-15 			EC07100-S-15	EC07100-S-18

CRITICAL DIMENSIONS

GUIDE MEASUREMENTS	
A - Height, overall	7-1/2" (190 mm)
Height, overall with optional Flex-Mount™	9-15/16" (252 mm)
Height, overall with optional Seismic Plate	8" (203 mm)
Height, minimum clearance with optional Cover Plate	8-1/2" (216 mm)
B - Width, overall	7-1/4" (184 mm)
C - Depth, overall	6-5/16" (159 mm)
D - Distance from front to face of rail	1-5/16" (32 mm)
E - Depth, from face of rail	5" (127 mm)
BOLT SLOT LOCATIONS	
F - Depth, from face of rail to center of bolt slot	1" (25 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	1-3/6" (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	1-3/16" x 13/16" (30 mm x 21 mm)
WEIGHT	
Each guide	10.4 lb (4.74 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 D Roller Guide and other ELSCO products.