



# MODEL A

**The industry's gold standard for elevator ride quality for over 70 years**

The 6-wheel adjustable Model A roller guide delivers an exceptionally wide application range allowing for higher speeds and capacities while delivering ELSCO's trusted quality and performance.

Designed for elevator cars up to 800 fpm or 10,000 lbs capacity in mid- to high-rise buildings.

**PRODUCT BROCHURE**

The Model A is a high-speed 6-wheel paired-roller guide with spring suspension, an adjustable stop on the face arm and six premium 6" diameter neoprene rollers.

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

**OPTIMIZED RIDE QUALITY AND FLOAT**

**1 Tandem-Roller Arms**

- › 6-wheels give added stability that can easily handle higher loads associated with service and hospital cars or higher speed passenger cars
- › 6-wheel design steps over misaligned rail joints minimizing in-car vibration at high speeds
- › Compensate for hoistway imperfections that affect elevator ride performance

**2 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

**3 Adjustable Stop**

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

**MINIMIZED NOISE AND VIBRATION**

**4 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

**5 Precision Ball Bearings**

- › 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

**DURABLE, ENGINEERED DESIGN**

**6 Robust Casting and Design Features**

- › Precisely machined castings are tested to meet applicable codes and standards ensuring the guides provide a lifetime of reliable performance

**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

**COUNTERWEIGHT APPLICATIONS**

- › Recommended for use as a counterweight with the Express-6 at speeds up to 1,400 fpm, and capacities from 3,000 - 6,000 lbs, and with the Express-3 at speeds up to 2,000 fpm and capacities from 3,000 - 4,000 lbs



Model A (EA18300)

**MODEL A**

**PRODUCT BROCHURE**

**MODEL A**

**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.

CAPACITY	PASSENGER CAR PLATFORM UP TO 10' WIDE X 8' DEEP/ (3050 mm X 2440 mm)							HOSPITAL CAR PLATFORM UP TO 6' WIDE X 10' DEEP/ (1830 mm X 3050 mm)							FREIGHT/SERVICE CAR PLATFORM UP TO 10' WIDE X 8' DEEP/ (3050 mm X 2440 mm)							
	fpm	200	300	400	500	600	700	800	200	300	400	500	600	700	800	200	300	400	500	600	700	800
	SPEED																					
m/s	1.0	1.5	2.0	2.5	3.0	3.5	4.0	1.0	1.5	2.0	2.5	3.0	3.5	4.0	1.0	1.5	2.0	2.5	3.0	3.5	4.0	
≤3,500 lbs 1,500 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

ISO/ASME WIDTH	RAIL SIZES									
	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)	T140-2 / 22# 1-1/8" (28.6 mm)	T140-3 / 30# 1-1/4" (31.75 mm)	
EA18300		●	●	●	●	●	●			
EA18930								●	●	

**RECOMMENDATIONS AND SPECIAL CONDITIONS**

- In most applications the recommended counterweight roller guide for use with a Model A is the Model C
- In slower applications check there is pit clearance for the roller guide height
- 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**



(EA07100)

**Cover Plate Kit**



(EA18333)

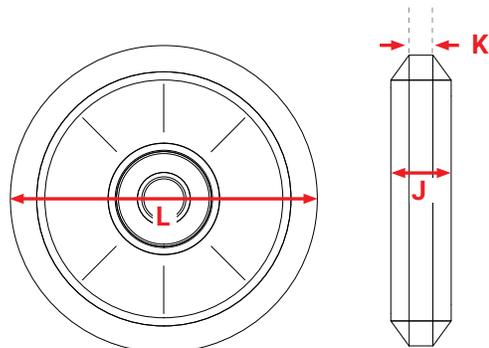
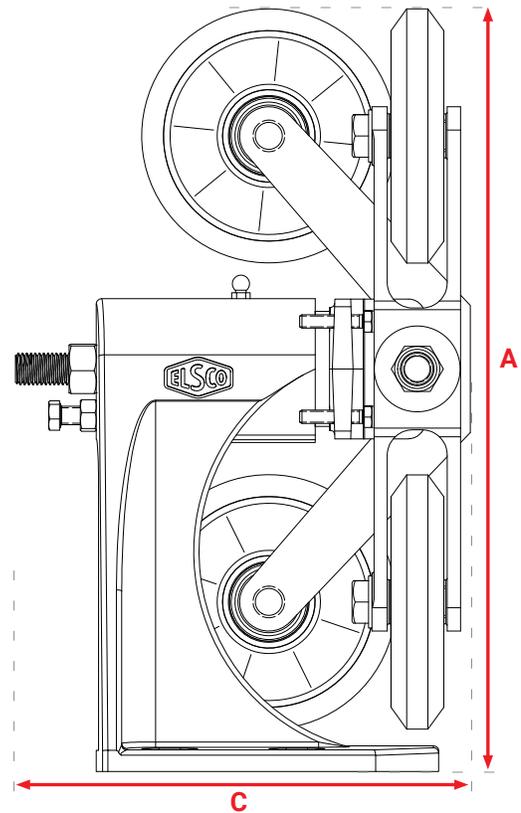
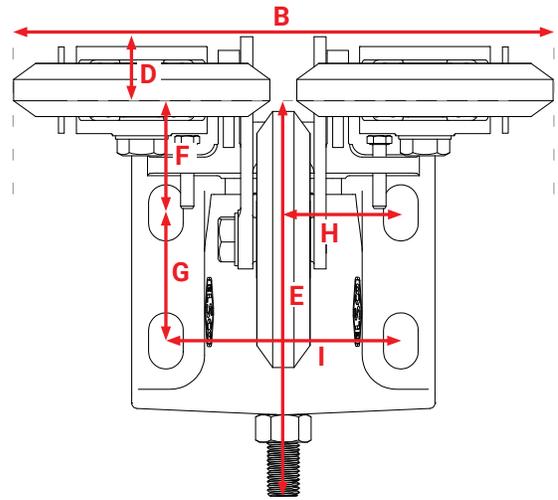
**SEISMIC ACCESSORIES**

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.

ISO/ASME	RAIL SIZES						
	T114 / 11#	T125 / 12#	T127-1 / 12#	T127-2 / 15#	T140-1 / 18#	T140-2 / 22#	T140-3 / 30#
Seismic Plate		EB06015	◐	EB06015	EB06018	EB06022	EB06030
Seismic Flex-Mount™ Adjustable Adapter Plate		EA07100-S-15	◐	EA07100-S-15	EA07100-S-18	EA07100-S-22	EA07100-S-30

**CRITICAL DIMENSIONS**

GUIDE MEASUREMENTS	
<b>A - Height, overall</b>	18" (457 mm)
Height, overall with optional Flex-Mount™	21" (532 mm)
Height, overall with optional Seismic Plate	18-1/2" (470 mm)
Height, minimum clearance with optional Cover Plate	18-5/8" (472 mm)
<b>B - Width, overall with 3/4" rail</b>	12-3/4" (324 mm)
Width, overall with 30# rail	13-1/4" (337 mm)
<b>C - Depth, overall</b>	11" (279 mm)
<b>D - Distance from front to face of rail</b>	1-13/16" (45 mm)
<b>E - Depth, from face of rail</b>	9-1/4" (235 mm)
BOLT HOLE LOCATIONS	
<b>F - Depth, from face of rail to center of bolt hole</b>	2-3/8" (60 mm)
<b>G - Distance between bolts on center, y-axis (post-to-post)</b>	3" (76 mm)
<b>H - Distance from center of face wheel to center of bolt</b>	2-3/4" (70 mm)
<b>I - Distance between bolts on center, x-axis</b>	5-1/2" (140 mm)
MOUNTING BOLT HOLES	
Number of bolt holes	4
Bolt hole dimensions	1-5/16" x 13/16" (33 mm x 21 mm)
WEIGHT	
Each guide	57.9 lbs (26.3 kg)
ROLLER WHEELS	
<b>J - Width at hub</b>	1-1/4" (32 mm)
<b>K - Neoprene tread width - face &amp; side arm</b>	1/2" (12.7 mm)
<b>L - Diameter</b>	6" (152 mm)
Bearing I.D.	0.7874" (20 mm)
Runout (total indicator reading)	0.002" (0.051 mm)



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