



# APPLICATIONS

G U I D E S E L E C T O R C H A R T S

# How to use the ELSCO Guide Selector Charts

The recommendations provided in these charts are intended to serve only as general guidelines. Carefully read all notes and instructions before making your guide selection, and contact ELSCO with any questions.

### Find your elevator type

Determine which chart you need to reference – Passenger, Freight, or Hospital.

### Verify your platform dimensions

You should be sure that your platform falls entirely within the platform dimensions listed for each chart. If not, you'll need to call ELSCO directly to discuss the particulars of your application.

### Find your speed

Scan along the top of the chart to find the speed range that most accurately describes your elevator.

## Passenger Elevators Platform dimensions up to 10'-0" wide by 8'-0" deep (305 cm wide by 244 cm deep)

Elevator Capacity Load	Elevator Speed Range							
	Up to 500 fpm (2.5 m/s)		600-800 fpm (3.0-4.0 m/s)		1,000-1,200 fpm (5.0-6.0 m/s)		1,400 fpm (7.0 m/s) and faster	
	Car	Counterweight	Car	Counterweight	Car	Counterweight	Car	Counterweight
< 3,000 lbs. (1,350 kg.)	Model B	Model D	Model A	Model C	Express 3	Model C	Express 6	Model A
3,500 lbs. (1,600 kg.)	Model B	Model D	Model A	Model C	Express 3	Model C	Express 6	Model A
4,000 lbs. (1,800 kg.)	Model B	Model D	Model A	Model C	Express 3	Model C	Express 6	Model A
4,500 lbs. (2,050 kg.)	Model A	Model C	Model A	Model C	Express 3	Model C	Express 6	Model A
5,000 lbs. (2,300 kg.)	Model A	Model C with adjustable stops	Model A	Model C with adjustable stops	Express 3	Model C	Express 6	Model A
6,000 lbs. (2,700 kg.)	Model A	Model C with adjustable stops	Model A	Model C with adjustable stops	Express 6	Model A	Express 6	Model A
7,000 lbs. (3,200 kg.)	Model A	Model C with adjustable stops	Model A	Model C with adjustable stops	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.			
	Up to 300 fpm							
	Car	Counterweight						
8,000-10,000 lbs. (3,600-4,500 kg.)	Model A with red polyurethane rollers	Model C with red polyurethane rollers & adjustable stops						

### Find your capacity

Scan down to find the capacity load that most accurately describes your elevator.

### Find your roller guide!

You will find the ELSCO-recommended car and counterweight roller guides listed where your elevator's speed and capacity intersect.

### Model E and Swivel Sliding Guide Shoe Recommendations

The ELSCO guide selector charts list ELSCO recommendations for our ride quality-optimizing spring-loaded roller guides. We also offer swivel sliding guide shoes and the economical unsprung Model E Roller Guide. Consult the back page for the recommended application ranges for our Model E and Swivel Sliding Guide shoes.

**Caution: The recommendations provided in the enclosed charts are intended to serve only as general guidelines.** ELSCO guides can frequently be used outside of the strict classifications listed above; this chart presents only the most typical roller guide solutions for the conditions specified. Many considerations go into the proper selection of a roller guide. Although speed and capacity are the primary determinants, other variables (e.g. platform dimensions, rail alignment, car balance, loading class, clearance limitations) may also have an impact. Please consult an ELSCO guide specialist at (410)363-9020 to discuss your roller guide selection today.

**Passenger Elevators** Platform dimensions up to 10'-0" wide by 8'-0" deep (305 cm wide by 244 cm deep)

Elevator Capacity Load	Elevator Speed Range							
	Up to 500 fpm (2.5 m/s)		600-800 fpm (3.0-4.0 m/s)		1,000-1,200 fpm (5.0-6.0 m/s)		1,400 fpm (7.0 m/s) and faster	
	Car	Counterweight	Car	Counterweight	Car	Counterweight	Car	Counterweight
< 3,000 lbs. (1,350 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>	Express <b>6</b>	Model <b>A</b>
3,500 lbs. (1,600 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>	Express <b>6</b>	Model <b>A</b>
4,000 lbs. (1,800 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>	Express <b>6</b>	Model <b>A</b>
4,500 lbs. (2,050 kg.)	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>	Express <b>6</b>	Model <b>A</b>
5,000 lbs. (2,300 kg.)	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops	Express <b>3</b>	Model <b>C</b>	Express <b>6</b>	Model <b>A</b>
6,000 lbs. (2,700 kg.)	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops	Express <b>6</b>	Model <b>A</b>	Express <b>6</b>	Model <b>A</b>
7,000 lbs. (3,200 kg.)	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.			
8,000-10,000 lbs. (3,600-4,500 kg.)	Model <b>A</b> with red polyurethane rollers	Model <b>C</b> with red polyurethane rollers & adjustable stops						

**Hospital Elevators** Platform dimensions up to 6'-0" wide by 10'-0" deep (183 cm wide by 305 cm deep)

Elevator Capacity Load	Elevator Speed Range							
	Up to 250 fpm (1.25 m/s)		300-500 fpm (1.5-2.5 m/s)		600-800 fpm (3.0-4.0 m/s)		1,000-1,200 fpm (5.0-6.0 m/s)	
	Car	Counterweight	Car	Counterweight	Car	Counterweight	Car	Counterweight
< 3,000 lbs. (1,350 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
3,500 lbs. (1,600 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
4,000 lbs. (1,800 kg.)	Model <b>A</b>	Model <b>D</b>	Model <b>A</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
4,500 lbs. (2,050 kg.)	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.	
5,000 lbs. (2,300 kg.)	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops		
6,000 lbs. (2,700 kg.)	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.			
7,000 lbs. (3,200 kg.)	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops				
8,000-10,000 lbs. (3,600-4,500 kg.)	Model <b>A</b> with red polyurethane rollers	Model <b>C</b> with red polyurethane rollers & adjustable stops						

**Service and Freight Elevators** Platform dimensions up to 10'-0" wide by 8'-0" deep (305 cm wide by 244 cm deep)

Elevator Capacity Load	Elevator Speed Range							
	Up to 250 fpm (1.25 m/s)		300-500 fpm (1.5-2.5 m/s)		600-800 fpm (3.0-4.0 m/s)		1,000-1,200 fpm (5.0-6.0 m/s)	
	Car	Counterweight	Car	Counterweight	Car	Counterweight	Car	Counterweight
< 3,000 lbs. (1,350 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
3,500 lbs. (1,600 kg.)	Model <b>B</b>	Model <b>D</b>	Model <b>A</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
4,000 lbs. (1,800 kg.)	Model <b>A</b>	Model <b>D</b>	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Express <b>3</b>	Model <b>C</b>
4,500 lbs. (2,050 kg.)	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Model <b>A</b>	Model <b>C</b>	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.	
5,000 lbs. (2,300 kg.)	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops	Model <b>A</b>	Model <b>C</b> with adjustable stops		
6,000 lbs. (2,700 kg.)	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Elevators in this high speed and capacity range often involve additional complexities that you should discuss with an ELSCO guide specialist previous to ordering.			
8,000 lbs. (3,600 kg.)	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops	Model <b>A</b> with green polyurethane rollers	Model <b>C</b> with green polyurethane rollers & adjustable stops				
10,000 lbs. (4,500 kg.)	Model <b>A</b> with red polyurethane rollers	Model <b>C</b> with red polyurethane rollers & adjustable stops						

**Note:** Unless otherwise specified, the guides recommended in the charts above should be equipped with ride quality-optimizing neoprene composition roller wheels.

## Swivel Sliding Guide Shoe Applications

**SD-8** Up to 2,500 lbs. (1,150 kg.) on 8 to 15 lb. Rail

---

**SC-8** Up to 4,000 lbs. (1,800 kg.) on 8 to 15 lb. Rail

---

**SA-8** Up to 8,000 lbs. (3,600 kg.) on 8 to 15 lb. Rail

---

**SA-15** Up to 10,000 lbs. (4,500 kg.) on 15 lb. Rail

---

Use adjustable stops on all guide shoe applications of 6,000 lbs. (2,700 kg.) capacity and over. For maximum performance and gib life, use the largest swivel sliding guide shoe that space will permit. ELSCO offers two gib compositions. Standard nylon gibs are designed for typical installations where rails are lubricated. Molybdenum-disulfide-filled nylon gibs are impregnated with a solid lubricant that may provide superior wear characteristics in unlubricated installations.

ELSCO swivel sliding guide shoes are made to accept 5/8" (16mm) width guide rails in stock configuration. Each swivel sliding guide shoe can be modified for 3/4" (19mm) rail and must be specified at the time of purchase. Other rail widths may be accommodated as special orders, but should be discussed with an ELSCO guide specialist.

ELSCO roller guide and sliding guide specifications are made on the basis of speed, capacity, and platform dimensions. Our recommendations are those that will maximize ride quality, minimize noise, and ensure proper hoistway clearances for smooth elevator operation. Actual performance is always dependent on proper roller guide installation and adjustment.

Some engineers use guide force ratings (sometimes referred to as "Max Roller Forces," "Fx/Fy" or "FF1/FF2" loads) in specifying roller guides and sliding guide shoes. These maximum force ratings are useful in determining whether or not a roller guide will suffer catastrophic failure in a worst-case-scenario (e.g. safety application at full speed with an unbalanced load), but in isolation, they are not appropriate substitutes for the specifications listed herein.

## Model E Roller Guide Applications

Model E Roller Guides are available for use on hydraulic elevator applications up to 3,500 lbs. (1,600 kg.) when a low cost, optimum performing roller guide is specified. When roller wheel pressures can be held at 25 to 50 lbs. (12-25 kg.), use ELSCO's standard neoprene roller wheels. If pressures are greater, Model E Guides are available with polyurethane roller wheels. Polyurethane roller wheels are capable of operating at pressures several times higher than neoprene wheels.

Please contact ELSCO if you need more information about guide force ratings.