



# CALIBRE

## C-80

**Designed using quality components to deliver performance, ride quality, and exceptional value**

Combining ease of installation and hoistway adjustability, the C-80 roller guide is compatible with a wide range of elevator counterweight, car and guide rail sizes.

Designed for counterweights up to 3.0 m/s and 1,800 kg capacity and elevator cars up to 1.6 m/s and 1,125 kg capacity in low- to mid-rise buildings.

The Calibre C-80 is a three-wheel roller guide with spring suspension, adjustable stops in all directions, and three 80 mm diameter polyurethane roller wheels.

Engineered and tested to meet EN 81 standards, the Calibre C-80 is constructed from durable, precision machined ductile iron castings, and is assembled using quality parts to ensure the installed roller guide delivers a lifetime of reliable performance.

QUICK AND EASY INSTALLATION

1 Face Arm Retaining Bolt

- › After the guide is accurately positioned and secured, remove the face arm retaining bolt and the correct roller wheel preload will be applied to the rail
- › Precise factory setup for 8 mm, 9 mm, 10 mm or 16 mm rail sizes reduces installation steps, so there is no need for adjustment in the field
- › This innovative feature simplifies the accurate installation of the guides, saving time and money

LOW NOISE AND VIBRATION

2 Polyurethane Rollers

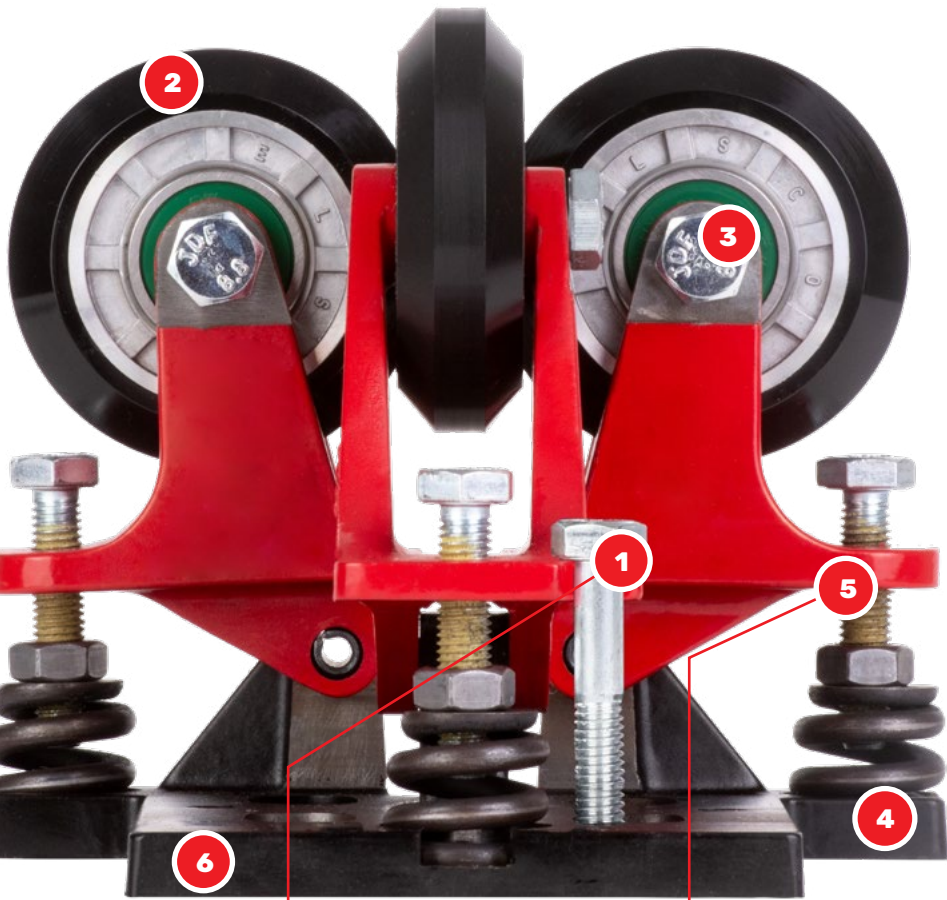
- › Precisely molded and finished tread profile provides a balanced and concentric roller
- › 85A durometer tread dampens vibration and reduces noise

3 Precision Ball Bearings

- › Dual bearing design provides the roller wheel with extra stability, ensuring a true ride, with minimal noise and vibration
- › Industrial grade, high quality ball bearings will last for millions of cycles

CONTROL OF COUNTERWEIGHT/CAR FLOAT

- › The C-80 can be adjusted to allow a range of elevator car or counterweight float which is excellent for troubleshooting stubborn hoistway issues



C-80 (EH21109)



4 Fully Adjustable Stabilizing Springs

- › Stabilizing springs are factory-set, but can be adjusted in the field to minimize bumps and vibration
- › Spring adjustments can be used to further reduce peak-to-peak lateral forces to measurably improve ride quality

5 Adjustable Stops

- › Factory-set to provide an optimal 3 mm of float to deal with troublesome hoistway issues
- › Can be adjusted in the field to minimize bumps and vibration if required
- › Can be set to limit float for use in hydraulic elevator applications

DURABLE, ENGINEERED DESIGN

6 Robust Casting and Design Features

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

APPLICATIONS TABLE

Use the counterweight or car table depending on the roller guide usage. Find the intersection of the car or counterweight's speed and capacity to confirm the roller guide is recommended for the application.

CAPACITY kg	PASSENGER, HOSPITAL, FREIGHT/ SERVICE CAR COUNTERWEIGHT							PASSENGER CAR, FREIGHT/SERVICE CAR			HOSPITAL CAR		
	PLATFORM UP TO 3050 mm WIDE X 2440 mm DEEP							PLATFORM UP TO 1830 mm WIDE X 3050 mm DEEP			PLATFORM UP TO 1830 mm WIDE X 3050 mm DEEP		
	m/s	0.6	1.0	1.6	2.0	2.5	3.0	0.6	1.0	1.6	0.6	1.0	1.6
SPEED													
≤ 800 kg													
1,000 kg													
1,275 kg													
1,600 kg													
1,800 kg													

Not every elevator is the same. If your application is not indicated in the red shaded area, please contact ELSCO Customer Service for guide selection recommendations.

ROLLER GUIDE RAIL COMPATIBILITY

● Compatible    ● Check Clearance

The C-80 is available in four factory set versions, for either 8 mm, 9 mm, 10 mm or 16 mm rails. It can be adjusted in the field to run on 5 mm rails.

ISO	RAIL SIZES												
	T45	T50	T65	T70-1	T75	T78	T82	T89	T90	T114	T125	T127-1	T127-2
WIDTH	5 mm	5 mm	8 mm	9 mm	10 mm	10 mm	9 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm
Standard ELSCO Bolt Pattern	ADJUST IN FIELD		EH21108	EH21109	EH21110		EH21109	EH21116					

RECOMMENDATIONS & SPECIAL CONDITIONS

- 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
- Suitable for use on hydraulic elevators when adjusted to limit float
- Recommended roller force:
  - › Car - Max. running normal operation  $F_y = 1,300\text{ N}$
  - › Car - Max. loading/unloading  $F_y = 1,800\text{ N}$
  - › Car - Static, empty - target preload = 110 - 220 N
  - › Counterweight - target preload = 110 - 220 N
- Counterweight - Max. weight = 3,200 kg

SEISMIC ACCESSORIES

Seismic plates must be installed if the guide is used to meet the elevator seismic requirements per EN 81-77. Seismic Flex-Mount™ Adjustable Adapter Plates can be used when mounting to pre-existing bolt patterns.

ISO	RAIL SIZES					
	T82	T89	T114	T125	T127-1	T127-2
Seismic Plate	ED06005	ED06008	ED06011	ED06011 ●	ED06012	ED06015
Seismic Flex-Mount™ Adjustable Adapter Plate		EC07100-S-8	EC07100-S-15 ●			EC07100-S-15

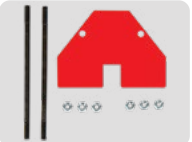
OPTIONAL ACCESSORIES

Flex-Mount™ Adjustable Adaptor Plate



(EC07100)

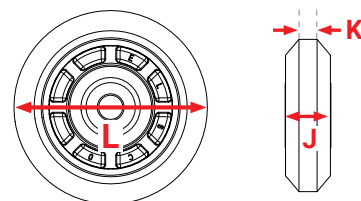
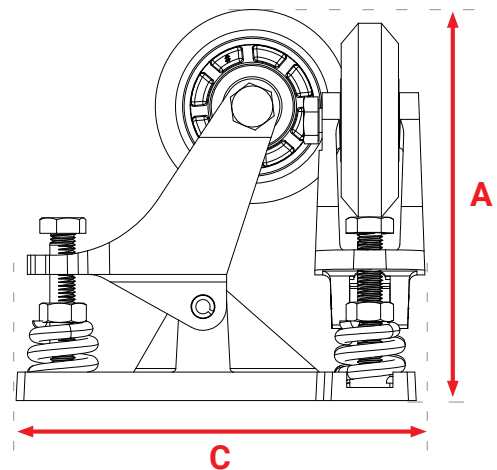
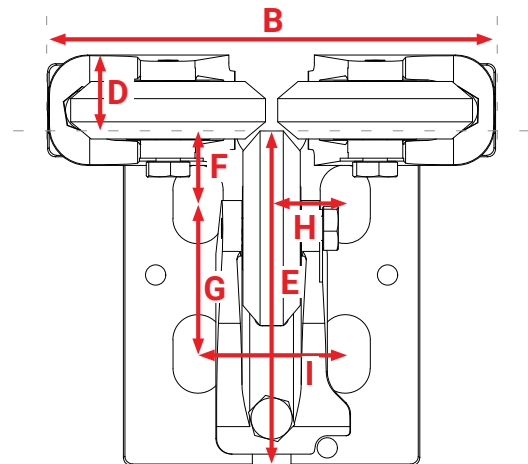
Cover Plate Kit



(EH25001)

## CRITICAL DIMENSIONS

GUIDE MEASUREMENTS	
<b>A</b> - Height, overall	161 mm
Height, overall with optional Flex-Mount™	223 mm
Height, overall with optional Seismic Plate	174 mm
Height, minimum clearance with optional Cover Plate	229 mm
<b>B</b> - Width, overall	186 mm
<b>C</b> - Depth, overall	169 mm
<b>D</b> - Distance from front to face of rail	31 mm
<b>E</b> - Depth, from face of rail	137 mm
BOLT SLOT LOCATIONS	
<b>F</b> - Depth, from face of rail to center of bolt slots	30 mm
<b>G</b> - Distance between bolts on center, y-axis (post-to-post)	61 mm
<b>H</b> - Distance from center of face wheel to center of bolt	30 mm
<b>I</b> - Distance between bolts on center, x-axis	60 mm
MOUNTING BOLT SLOTS	
Number of bolt slots	4
Bolt slot dimensions	32 mm x 21 mm
WEIGHT	
Each guide	4.2 kg
ROLLER WHEELS	
<b>J</b> - Width at hub	24 mm
<b>K</b> - Polyurethane tread width	9.5 mm
<b>L</b> - Diameter	80 mm
Bearing I.D.	10 mm
Runout (total indicator reading)	0.1 mm



Scan here to learn more about the C-80 Roller Guide and other ELSCO products.