



$\mathbf{C} - \mathbf{80}$

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 (600 fpm) and 1,800 kg (4,000 lbs) capacity and elevator cars up to 1.5 m/s (300 fpm) and 1,100 kgs (2,500 lbs) capacity in low- to mid-rise buildings.

PRODUCT BROCHURE

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 and ASME A17.1/CSA B44 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

Face Arm Retention Bolt

- > After the guide is accurately positioned and secured, remove the face arm retaining bolt and the correct roller wheel pre-load force will be applied to the rail
- > Precise factory setup for either 8, 9, 10 or 16 mm rail sizes reduces installation steps, which means 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 Roller Wheels

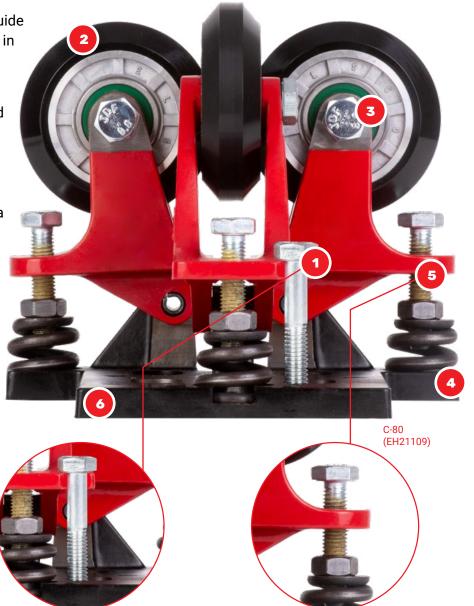
- > Precisely molded and finished tread profile provides a balanced and concentric roller
- > 85A durometer tread dampens vibration and reduces noise

3 Precision Ball Bearings

- > Dual bearing design provides the roller extra stability to ensure 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 is capable of being adjusted to allow a range of elevator car or counterweight float which is excellent for troubleshooting stubborn hoistway issues



DURABLE, ENGINEERED DESIGN

6 Robust Casting and Design Features

> Precisely machined castings ensure the

final assembly is of the highest quality

standards ensuring the guides provide a

> Tested to meet applicable codes and

lifetime of reliable performance

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

- > Are factory-set to provide an optimal 3 mm (1/8") 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 have restricted float for use in hydraulic elevator applications

PRODUCT BROCHURE

APPLICATIONS TABLE

kg/lbs

CAPACITY

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.

	PASSENGER /HOSPITAL /FREIGH1 & SERVICE CAR COUNTERWEIGH1			FRE					HOSPITAL CAR PLATFORM UP TO 6' WIDE X 10' DEEP/ (1830 mm X 3050 mm)							
m/s SPEED fpm	0.5 100	1.0 200	1.5 300	2.0 400	1 I	3.0 600	I	I.	1.0 200	1. 30		0.5 100	I	1.0 200	I	1.5 300
≤ 900 kg 2,000 lbs																
1,100 kg 2,500 lbs																
1,400 kg 3,000 lbs																
1,600 kg 3,500 lbs																
1,800 kg 4,000 lbs							Not every el	evator is	s the sam	e. If your ap	plicati	on is not in	dicate	d in the r	ed sha	ded area,
2,000 kg 4,500 lbs							plea	se conta	et ELSCC) Customer	Service	e for exper	t applic	cation as	sistan	ce

ROLLER GUIDE RAIL COMPATIBILITY

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

	RAIL SIZES												
ISO	T45	T50	T65	T70	T75	T78	T82	T89	Т90	T114	T125	T127-1	T127-2
ASME							5.75#	8#		11#	12#	12#	15#
WIDTH	5 mm (0.197")	5 mm (0.197")	7.9 mm (0.311")	9.0 mm (0.354")	10 mm (0.394")	10 mm (0.394")	9.0 mm (0.354")	16 mm (5/8")					
Standard ELSCO Bolt Pattern			EH21108	EH21109	EH21110		EH21109	EH21116					

RECOMMENDATIONS & SPECIAL CONDITIONS

- \rightarrow 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
- → Suited for use on hydraulic elevators when adjusted to have restricted float

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 5.75#	T89 8#	T114 11#	T125 12#	T127-1 12#	T127-2 15#				
Seismic Plate	ED06005	ED06008	ED06011	ED06011 🌓	ED06012	ED06015				
Seismic Flex-Mount™ Adjustable Adapter Plate		EC07100-S-8		EC07100-S-15)	EC07100-S-15				

C-80

Compatible

Check Clearance



OPTIONAL ACCESSORIES Flex-Mount[™] Adjustable Adaptor Plate

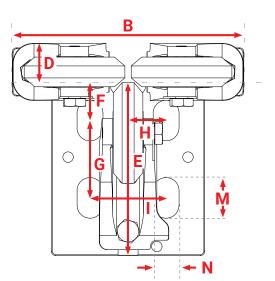
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Cover Plate Kit

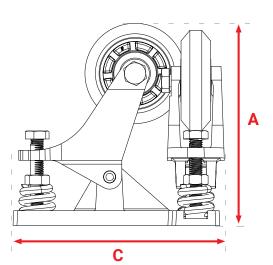
PRODUCT BROCHURE

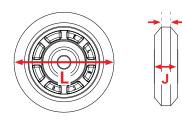
CRITICAL DIMENSIONS

GUIDE MEASUREMENTS							
A - Height, overall	161 mm (6-3/8")						
Height, overall with optional Flex-Mount [™]	223 mm (8-13/16")						
Height, overall with optional Seismic Plate	174 mm (6-7/8")						
Height, minimum clearance with optional Cover Plate	229 mm (9")						
B - Width, overall	186 mm (7-5/16")						
C - Depth, overall	169 mm (6-5/8")						
D - Distance from front to face of rail	31 mm (1-1/4")						
E - Depth, from face of rail	137 mm (5-7/16")						
BOLT SLOT LOCATIONS							
F - Depth, from face of rail to center of bolt slots	30 mm (1-3/16")						
G - Distance between bolts on center, y-axis (post-to-post)	61 mm (2-7/16")						
H - Distance from center of face wheel to center of bolt	30 mm (1-3/16")						
I - Distance between bolts on center, x-axis	60 mm (2-3/8")						
MOUNTING BOLT SLOTS							
Number of bolt slots	4						
Bolt slot dimensions	32 mm x 21 mm (1 1/4" x 13/16")						
WEIGHT							
Each guide	4.2 kg (9.2 lbs)						
ROLLER WHEELS							
J - Width at hub	24 mm (15/16")						
K - Polyurethane tread width	9.5 mm (3/8")						
L - Diameter	80 mm (3-3/16")						
Bearing I.D.	10 mm (0.394")						
Runout (total indicator reading)	0.1 mm (0.004")						



C-80







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



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