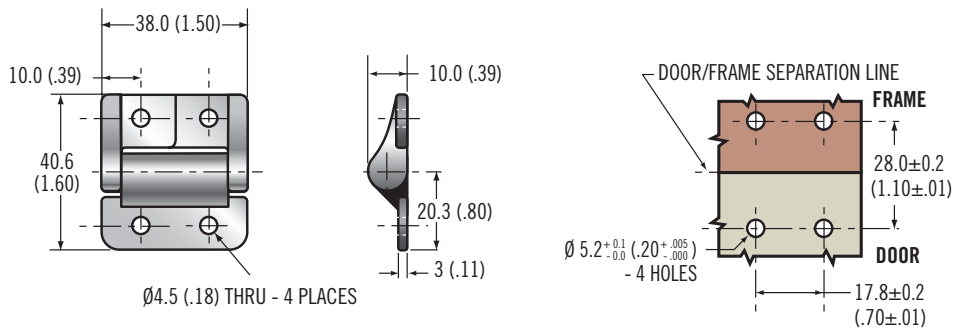


# Southco® Hinges

## Constant Torque Friction Hinges

- Holds doors open without secondary mechanical support for safe access and handling
- Eliminates extra components, reduces installation time; allows overall cost savings
- Provides smooth, consistent operation over 20,000 cycles

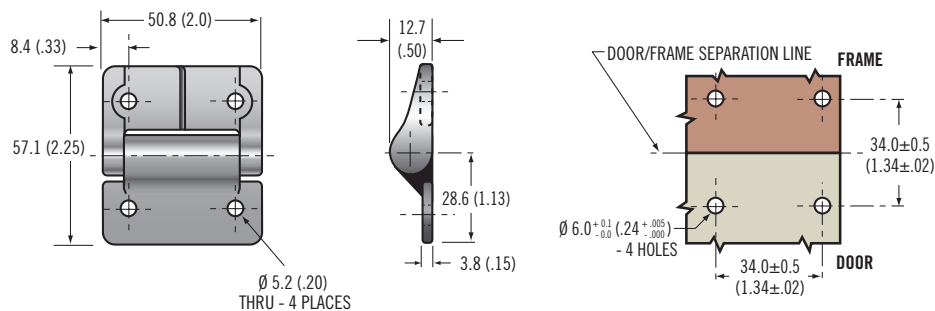
### 200 Series



PART NUMBER	FINISH	PREVAILING TORQUE
E6-10-208-50•	Black	0.9 N•m (8in-lbs)
E6-10-208-33	Natural	
E6-10-216-50•	Black	1.8 N•m (16in-lbs)
E6-10-216-33	Natural	

Designed to accept M4 or No.8 screws or equivalent. (Screws not included)  
For different torques or finishes call Southco.

### 400 Series



PART NUMBER	FINISH	PREVAILING TORQUE
E6-10-416-50•	Black	1.8 N•m (16in-lbs)
E6-10-416-33	Natural	
E6-10-420-50•	Black	2.2 N•m (20in-lbs)
E6-10-420-33	Natural	
E6-10-430-50•	Black	3.4 N•m (30in-lbs)
E6-10-430-33	Natural	

Designed to accept M5 or No.10 screws or equivalent. (Screws not included)  
For different torques or finishes call Southco.



### Material and Finish

Leaves: Die cast zinc, black urethane enamel or natural

#### Internal components

Shaft: Carbon steel, natural

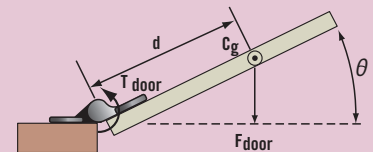
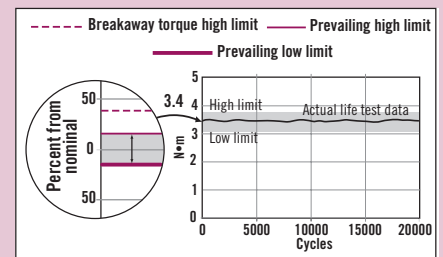
Clips: Carbon steel, natural

O-rings (2): Buna-N Rubber

Bushings(2): Die-cast zinc

### Performance

- ± 20% of nominal specification to 20,000 cycles
- Minimal springback (< 1°)



$$T_{door} = d \cdot \cos(\theta) \cdot F_{door}$$

This formula is intended to assist with hinge selection. Consideration of application specific characteristics is required.

PRODUCT STRENGTH GUIDELINES		
To assist in your product selection, samples are available for your evaluation		
TYPE OF LOAD	200 Series	400 Series
Radial Load 	Maximum Static Load*	155N (35 lbs) / 200N (45 lbs)
	Average Ultimate Load	3600N (800 lbs) / 7000N (1550 lbs)
Axial Load 	Maximum Static Load*	155N (35 lbs) / 200N (45 lbs)
	Average Ultimate Load	1200N (270 lbs) / 2000N (450 lbs)

\* Maximum recommended static load per pair of hinges  
Operating Temperature Range: -20°C (-4°F) to 65°C (150°F)

For more information call Southco or visit: [www.southco.com](http://www.southco.com)

millimeter (inch)  
millimeter (inch)

Dimensions without tolerances are for reference only.