

# LCN Door Closer Sizing Guide

## Introduction

Proper door closer sizing ensures optimal performance, compliance with accessibility standards, and longevity of equipment. This guide provides comprehensive sizing data for LCN closers across various door configurations and environmental conditions.

## Door Width Considerations

Door width directly impacts the moment arm and closing force requirements. Standard commercial doors measure 36-42 inches wide. Wider doors (48+ inches) require stronger closers (Size 5-6) to achieve adequate closing speed. Narrow doors (32 inches or less) function well with Size 1-3 closers.

## Spring Power Sizing Chart

LCN offers six spring power sizes: • Size 1: 32-36" doors, light-traffic interior • Size 2: 36-42" doors, medium-traffic • Size 3: 42-48" doors, heavy-traffic • Size 4: 48-54" doors, institutional • Size 5: 54-60" doors, heavy industrial • Size 6: 60"+ doors, maximum force applications

## Interior vs Exterior Doors

Interior applications with protected environments use lower spring powers (Sizes 1-3). Exterior doors exposed to wind require higher powers (Sizes 3-5). Consider seasonal wind patterns when selecting exterior door closers.

## Fire-Rated Requirements

Fire-rated door assemblies must maintain closure and latching capability. Minimum closer size must close the door and engage latch mechanism within 10 seconds. Fire-rated applications typically require Size 3 or larger.

## ADA Compliance

Americans with Disabilities Act limits opening force to maximum 5 pounds for accessible doors. Select closers with adjustable closing speed to meet this requirement. Use low-energy or power-assist operators for doors exceeding manual opening capability.

## **Wind Conditions**

Calculate wind load factor: higher wind speeds require greater closing force. Exposed locations (upper floors, rooftop) warrant oversized closers. Sheltered locations allow use of smaller closers for the same door width.