

A trusted global partner in functional and decorative opening solutions

Delivering reliable opening solutions that combine performance, aesthetics, and sustainability

CONTACT US

📍 Ningbo, China

✉️ sales@hardwoodsecurity.com

🌐 www.hardwoodsecurity.com



HARDWOOD®

@ 2026 All rights reserved
Specifications are subject to change without notice.

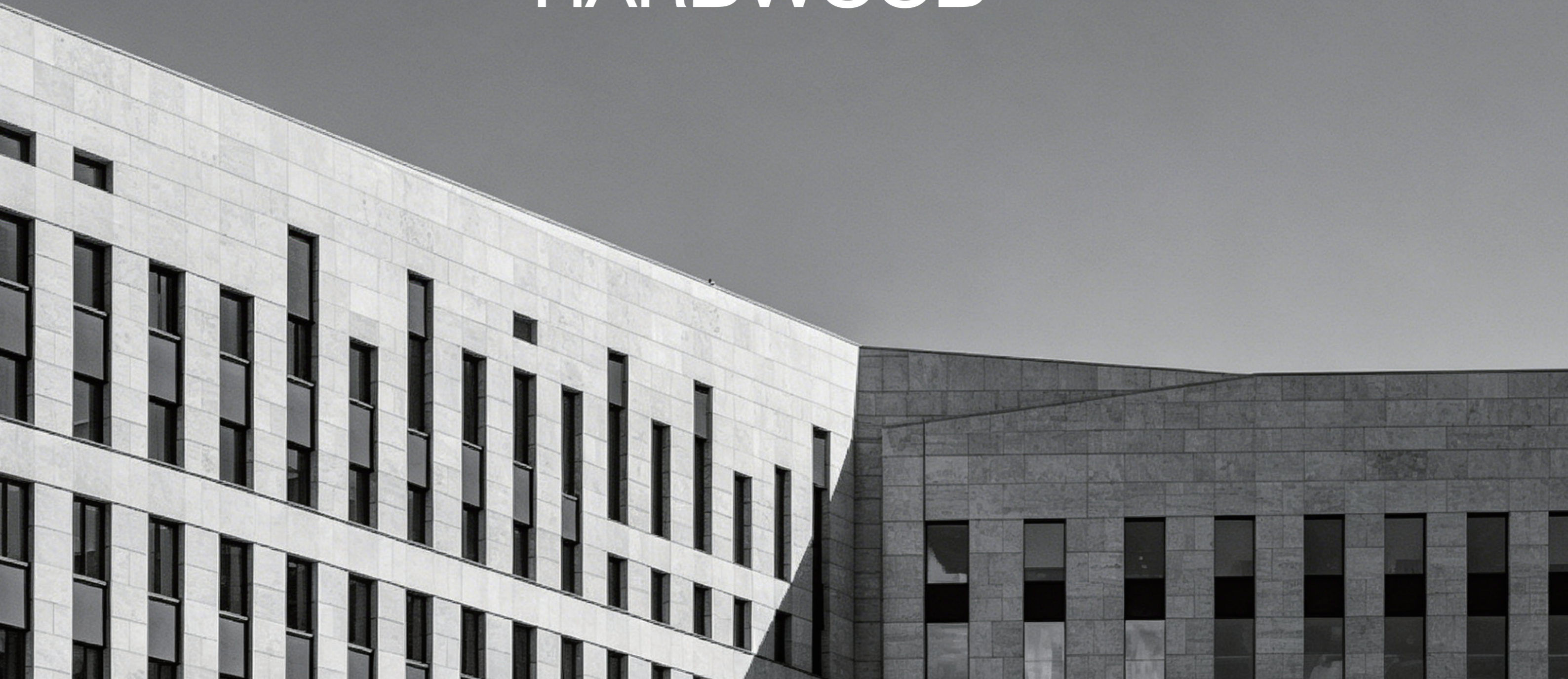
www.hardwoodsecurity.com



HINGE

Hardwood Door Control Tech (Ningbo) Co., Ltd.

HARDWOOD®



HARDWOOD®

INTRODUCTION

ABOUT US

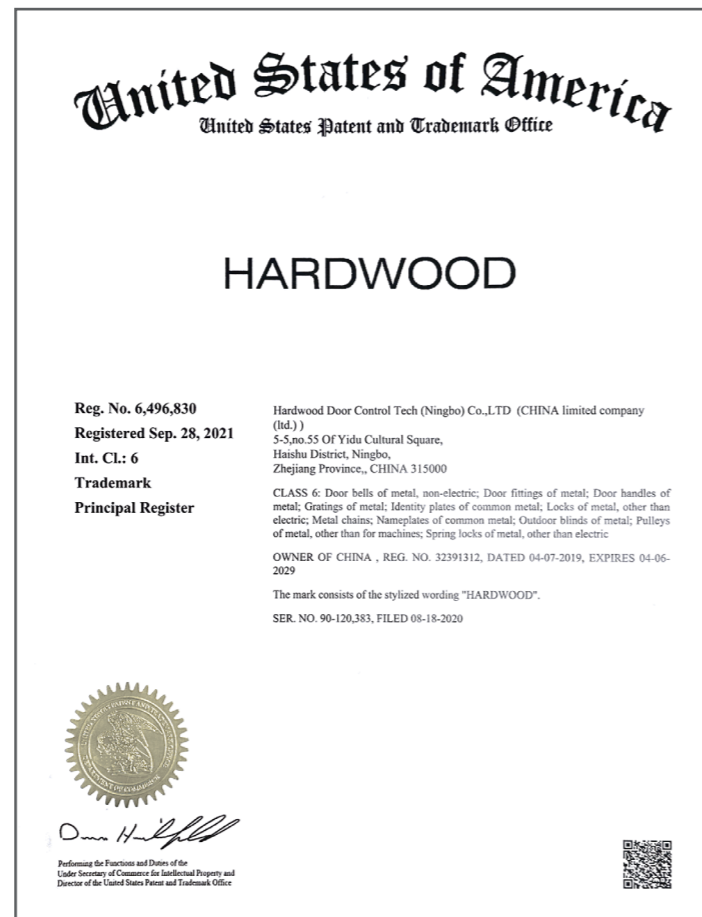
A trusted global partner in functional and decorative opening solutions



Hardwood is an innovative and professional company engaged in research, development, design and manufacturing of Locksets, fittings, sliding door system and numerous architectural hardware. The founder and core members have over 30 years' experience in door control industry.



Delivering reliable opening solutions that combine performance, aesthetics, and sustainability.



30+
Years

100+
Serving Clients

300+
Product Portfolio



Overview

American Standard Commercial door Hardware

The commercial hinge collection is designed to elevate every opening with refined detailing and premium finishes. Available in regular-duty and heavy-duty configurations, as well as surface-mounted and concealed designs, they provide versatile solutions for residential, commercial, and institutional applications. Perfectly coordinated with our premium door hardware collections, they unlock a world of design possibilities.



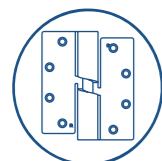
FIRE SAFETY COMPLIANCE

UL 10C listed 3-hour fire rating enhances safety and meets building codes.



PREMIUM MATERIALS

Stainless steel material for strength and corrosion resistance.



SMOOTH OPERATION

Precision engineering ensures reliable performance and long-lasting smooth operation.



ANSI/BHMA A156.1 Grade 1 certified, tested for over 2,500,000 cycles
UL Listed for steel fire doors 3 hours rated



HINGE SERIES

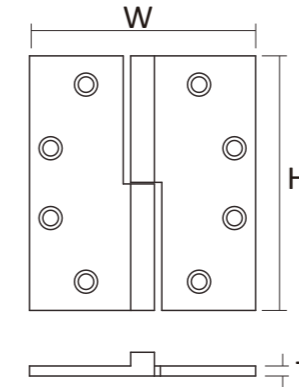
Square barrel hinge

Sleek · elegant · enduring

- Bold square design with smooth, durable performance.
- Architectural square barrel design with lasting strength.
- Clean geometry, solid construction, smooth operation.
- Where design precision meets mechanical durability.

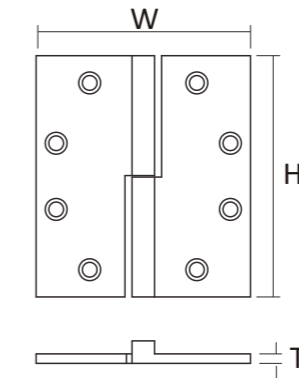


2K-454045-L21
2K-454545-L21



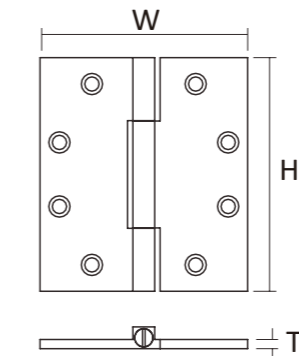
Type	Two knuckle square barrel hinge
Height	4-1/2" (114mm)
Width	4" (102mm) / 4-1/2" (114mm)
Thickness	3/16" (4.5mm)
Opening angle	180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	150lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	Extruded SS304/Brass/Carbon steel
Handing	Handed

2K-454045-R22
2K-454545-R22



Type	Two knuckle square barrel hinge
Height	4-1/2" (114mm)
Width	4" (102mm) / 4-1/2" (114mm)
Thickness	3/16" (4.5mm)
Opening angle	180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	150lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	Extruded SS304/Brass/Carbon steel
Handing	Handed

3K-454045
3K-454545



Type	Three knuckle square barrel hinge
Height	4-1/2" (114mm)
Width	4" (102mm) / 4-1/2" (114mm)
Thickness	3/16" (4.5mm)
Opening angle	180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	150lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	Extruded SS304/Brass/Carbon steel
Handing	Non-handed

AVAILABLE FINISHES



US32D



US32



US19



US4



US10B

Cam Lift Hinge

Lift · Seal · Smooth



- Cam lift action raises the door during opening and lowers it when closed
- Creates a tight compression seal for improved acoustic and energy performance
- Reduces friction and ensures smooth operation in sealed door systems
- Suitable for doors with perimeter gaskets and sealing requirements

H1-504563-R21/L11



Type	Heavy duty cam lift hinge
Height	5" (127mm)
Width	4-1/2" (114mm)
Thickness	1/4" (6.3mm)
Opening angle	180°
Clearance	5/16" (8mm) at 180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	500lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Handed

H1-504546-R21/L11



Type	Standard duty cam lift hinge
Height	5" (127mm)
Width	4-1/2" (114mm)
Thickness	3/16" (4.6mm)
Opening angle	180°
Clearance	1/4" (6.35mm) at 180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	300lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Handed

H1-454534-R21/L11



Type	Standard duty cam lift hinge
Height	4-1/2" (114mm)
Width	4-1/2" (114mm)
Thickness	1/8" (3.4mm)
Opening angle	180°
Clearance	3/16" (4.6mm) at 180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	200lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Handed

AVAILABLE FINISHES



US32D

US32

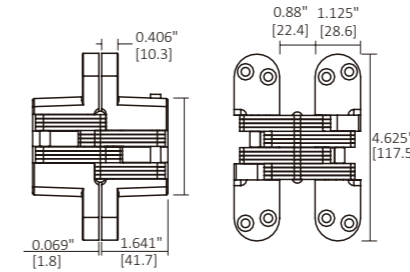
Concealed Hinge

Hidden • Smooth • Durable



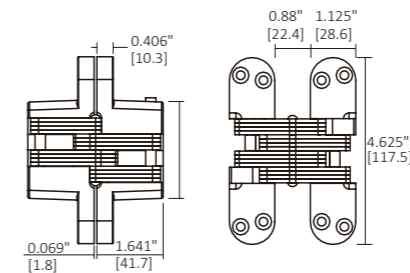
- Heavy-duty stainless steel construction
- Fully concealed design
- Invisible when closed
- Smooth, stable operation
- Lasting strength and durability
- Corrosion-resistant performance
- Suitable for demanding applications
- Seamless architectural integration

H2-011A



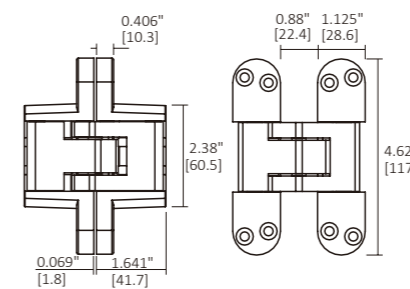
Type Heavy duty concealed hinge	Opening angle 180°	Anti-fraction Roller
Height 4-5/8" (117.5mm)	Door type Interior or exterior Hollow metal or wood doors	Leaf material SS303 cast
Leaf width 1-1/8" (28.6mm)	Door weight 500lbs	Link arm material Stacked SS304 sheets
Thickness 3/8" (10.3mm)	Door thickness Min. 1-3/4" (44mm)	Handing Non-handed

H2-011B



Type Heavy duty concealed hinge	Opening angle 180°	Anti-fraction Roller, nylon gasket
Height 4-5/8" (117.5mm)	Door type Interior or exterior Hollow metal or wood doors	Leaf material SS303 cast
Leaf width 1-1/8" (28.6mm)	Door weight 500lbs	Link arm material Stacked SS304 sheets, nylon
Thickness 3/8" (10.3mm)	Door thickness Min. 1-3/4" (44mm)	Handing Non-handed

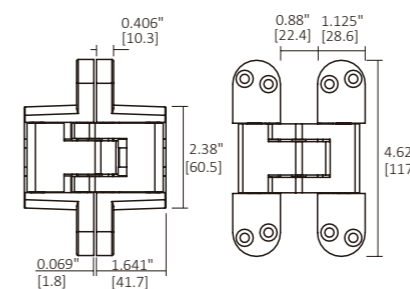
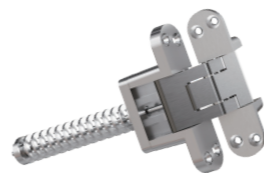
H2-021A



Type Heavy duty concealed hinge	Opening angle 180°	Anti-fraction Roller, nylon gasket
Height 4-5/8" (117.5mm)	Door type Interior or exterior Hollow metal or wood doors	Leaf material SS303 cast
Leaf width 1-1/8" (28.6mm)	Door weight 300lbs	Link arm material SS303 cast
Thickness 3/8" (10.3mm)	Door thickness Min. 1-3/4" (44mm)	Handing Non-handed

H2-021B

Self-closing/door closer



Type Heavy duty concealed hinge	Door type Interior or exterior Hollow metal or wood doors	Leaf material SS303 cast
Height 4-5/8" (117.5mm)	Door weight 300lbs	Link arm material Stacked SS304 sheets, nylon
Leaf width 1-1/8" (28.6mm)	Door thickness Min. 1-3/4" (44mm)	Closing mechanism Spring
Thickness 3/8" (10.3mm)	Anti-fraction Roller, nylon gasket	Handing Non-handed
Opening angle 180°		

AVAILABLE FINISHES



US32D



US19

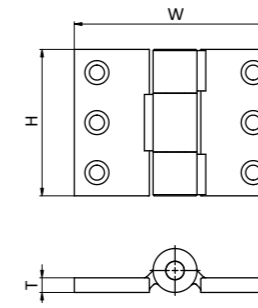
Extra heavy duty hinge

Strength · Security · Durability



- Extra heavy-duty construction
- Designed for high-abuse environments
- Enhanced security performance
- Corrosion-resistant materials
- Suitable for marine applications
- Ideal for detention facilities
- Built for demanding service conditions

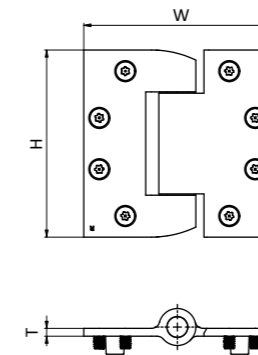
E60-6



Type	Extra heavy duty hinge
Height	5" (127mm)
Width	6-7/8" (174.6mm)
Thickness	1/2" (12.7mm)
Opening angle	180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	500lbs
Door thickness	Min. 1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Non-handed

E61

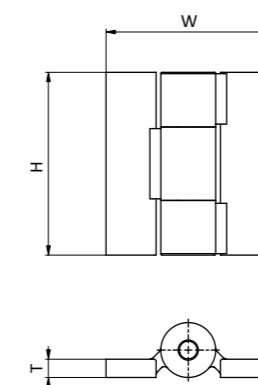
load bearing pin



Type	Extra heavy duty hinge
Height	4-1/2" (114mm)
Width	4-1/2" (114mm)
Thickness	3/16" (4.6mm)
Extra load bearing	Mortised pins
Opening angle	180°
Door type	Interior or exterior Hollow metal or wood doors
Door weight	800lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Non-handed

E60-4.5

Welded mounting



Type	Extra heavy duty hinge
Height	5" (127mm)
Width	4-1/2" (114mm)
Thickness	1/2" (12.7mm)
Opening angle	180°
Installation	Welding
Door type	Interior or exterior Hollow metal or wood doors
Door weight	300lbs
Door thickness	1-3/4" (44mm)
Anti-friction	Nylon gasket
Material	SS303 cast
Handing	Non-handed

AVAILABLE FINISHES



US32D



US32

Hardwood management team recognizes and deeply understands that innovation and continuous improvement are key driven force for the company. We keep investing in R&D activities and have clearly defined growing annual budget for it. Engineers are using modern software, to design internal structure and esthetic appearance.

We keep following new trends, products and techniques in the door control industry. Every quarter Hardwood has regular seminar on new products / trends and each year we set a plan to launch numerous new products.



Customer-Focused Innovation

We collaborate closely with our customers to turn ideas into practical, high-value hardware solutions.



Advanced Engineering & Simulation

Using 3D CAD, FEA, and motion simulation, we validate design performance and optimize for real-world applications.



Prototyping & Testing

In-house prototyping and testing capabilities support design verification, functional evaluation, and performance validation to ensure reliability and product quality before mass production.



Design for Manufacturability (DFM)

We evaluate every detail to ensure efficient production, consistent quality, and cost-effective results.



Quality & Reliability

Ensured through strict material control, standardized processes, and comprehensive testing at every production stage to deliver consistent performance and durability.



Continuous Improvement

We invest in tools, talent, and processes to continuously drive innovation and improve performance outcomes.



SOLUTIONS

Solutions tailored for modern door hardware and access control applications. Engineered to deliver security, durability, and seamless user experience.



Campus



Residential



Government



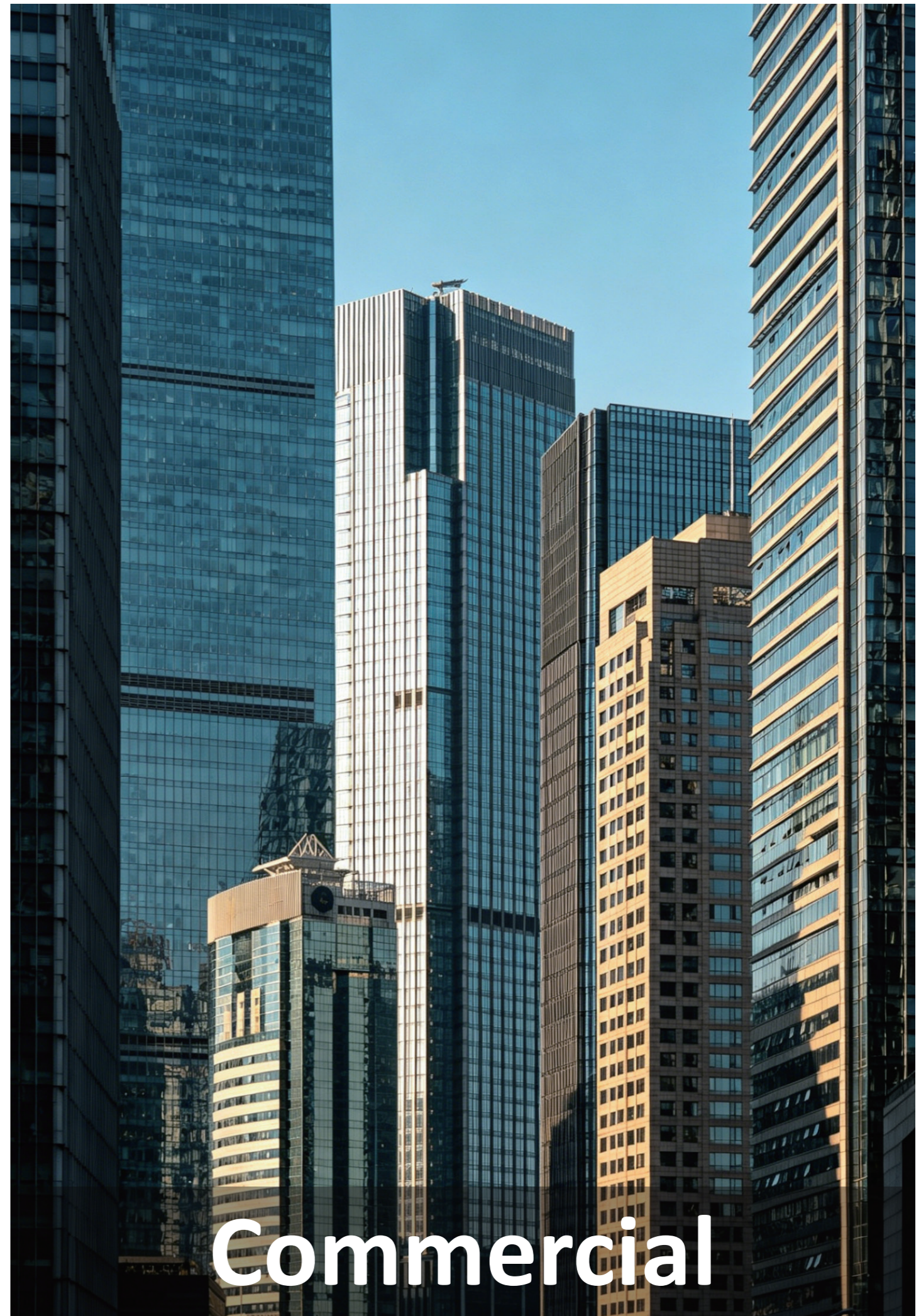
Healthcare



Banking



Airport



Commercial