



CHOOSING **COMMERCIAL DOOR LOCKS** A COMPLETE GUIDE

As spec writers, you understand the critical importance of ensuring the safety and security of commercial properties. Unauthorized access poses a significant risk to businesses, with concerns ranging from break-ins to data breaches. In the United States alone, FBI records from 2019 indicate an alarming 1,117,696 reported burglaries, highlighting the pressing need for robust security measures.



Apart from deterring casual trespassers, **secure door locks** play a vital role in:

01 Preventing break-ins and theft:
Sturdy locks and controlled access significantly reduce the risk of unauthorized entry and loss of valuable assets.

03 Enhancing employee and customer safety:
Secure access ensures that only authorized personnel can enter sensitive areas, fostering a safer work environment for everyone.

02 Maintaining regulatory compliance:
Certain industries have specific security protocols. The right locks ensure your facility meets these regulations.

04 Streamlining access control:
Modern lock systems allow for designated access levels and control entry times, improving operational efficiency.

Who Should Read This Guide?

This eBook is tailored to empower spec writers and professionals responsible for safeguarding commercial properties.



Understanding Security Needs and Technology Advancements

Identifying **Security Pain Points**

Every commercial property faces unique security challenges. This chapter will explore common security concerns businesses encounter and how different types of locks can address them:

The Ever-present Threat: Unauthorized Access

Challenge

Unauthorized individuals gaining access to restricted areas can lead to theft, vandalism, and even violence.

Traditional Locks

While they offer a basic level of security, physical keys can be lost, stolen, or copied, compromising access control.

Modern Solutions

Electronic access control systems with keypads, keycards, or biometric scanners provide a more robust solution, allowing for designated access levels and detailed audit trails.

Curbing Theft and Loss of Inventory

Challenge

Retail stores, warehouses, and data centers are particularly vulnerable to theft.

Traditional Locks

They may deter casual attempts, but determined thieves can often find ways to bypass them.

Modern Solutions

High-security electromagnetic locks offer a powerful solution. These require a constant electrical current to remain locked, making them highly resistant to forced entry.



Combating Vandalism and Malicious Activity

Challenge

Vandalism can damage property and disrupt operations.

Traditional Locks

They may offer some protection, but they can't prevent determined vandals from causing damage.

Security Features

Certain locks come equipped with tamper alarms that alert security personnel when unauthorized attempts are made to bypass the system.

Addressing Additional Concerns

Let's delve deeper into specific security needs of different industries, such as:

High foot traffic areas

Finding a balance between security and efficient access control is crucial. Solutions like keyless access with scheduled entry times can streamline entry and exit.

Data security

For businesses handling sensitive information, high-security options with dual-factor authentication and detailed audit logs are essential.

By understanding your specific security vulnerabilities, you can choose the right lock type to effectively address your unique needs.



Recent Advancements in Commercial Door Lock Technology

The sector of commercial door lock technology is evolving rapidly. Gone are the days of relying solely on clunky keys or basic keypads. Let's take a deeper look at the exciting advancements that are revolutionizing access control:



Beyond the Keypad: Biometric Authentication

Fingerprint Scanners

Offer a convenient and secure way to grant access based on a user's unique fingerprint.

Facial Recognition

Emerging technology offering a touchless and secure solution for access control.



Cloud-Based Management: Taking Control from Anywhere

Remote Access Management

Grant, revoke, and manage access permissions for users from a centralized cloud-based platform.

Real-Time Monitoring

Track access logs and receive instant alerts on attempted breaches or unauthorized activity.



The Future is Here

These advancements offer a glimpse into the future of commercial door locks, where convenience and unparalleled security go hand-in-hand. By embracing these innovations, you can significantly enhance the protection of your business and assets.

A study by HID found that 80% of businesses surveyed are planning to invest in biometric authentication solutions within the next three years.



Convenience at Your Fingertips: Mobile Credential Access

Smartphones as Keys

Employees and authorized personnel can gain access using secure mobile apps on their smartphones.

Increased Flexibility

Mobile credentials can be easily revoked or disabled if lost or stolen, unlike traditional keys.



Smart Integration: Building a Connected Security Ecosystem

Integration with Security Systems

Door locks can seamlessly connect with CCTV cameras, alarms, and other building security systems for a unified approach.

Streamlined Operations

Automated triggers can activate lights, unlock doors for authorized personnel, or trigger alarms based on access events.

The global market for electronic door locks is anticipated to reach USD 4.98 Billion by 2028.



Choosing the Right Lock

A Decision-Making Guide

Factors to Consider When Choosing a Lock

Securing your commercial property isn't a one-size-fits-all solution. Selecting the optimal commercial door lock requires considering your specific needs. This chapter will guide you through the key elements to evaluate when making your decision:

01 Security Level Requirements

High-Security Needs:

For businesses handling sensitive data (financial institutions, data centers), top-tier security is vital. Look for locks with features like dual-factor authentication and high-durability materials.

Moderate Security:

Offices, retail stores, and warehouses may require a balance between security and affordability. Electronic locks with keypads or keycards offer a good balance.

Basic Security:

Interior office doors or low-risk areas might benefit from traditional mechanical locks, but consider upgrading to keyless options for enhanced control.

02 Door Type and Application

Exterior Doors:

These require weather-resistant locks built for harsh conditions. Magnetic locks might not be suitable for exterior applications due to potential weather-related malfunctions.

High-Traffic Areas:

Prioritize locks that facilitate a smooth flow of authorized personnel. Keyless access systems with scheduled entry times or mobile credentials can expedite entry and exit.

Interior Doors:

Consider the level of access control needed. Mechanical locks may suffice for some areas, while electronic options with user-specific access levels are ideal for restricted areas.



03 Budget Constraints

Cost plays a vital role:

While advanced features come with a higher price tag, consider the long-term benefits. The cost of a potential security breach can outweigh the initial investment in a robust lock system.

Evaluate long-term costs:

Factor in installation, maintenance, and potential software licensing fees associated with electronic lock systems.

05 Integration with Existing Systems

Does your business already utilize a security system?

Choose locks that integrate seamlessly with your existing CCTV, alarms, and access control infrastructure.

04 Ease of Use and Access Control Needs

Do you need a user-friendly system for frequent access by staff?

Keypad or mobile credential access can simplify entry.

Do you require granular control over access times and permissions?

Electronic systems with cloud-based management offer detailed control and audit trails.restricted areas.

Types of Commercial Door Locks and Their Benefits

Now that you've identified your security needs and budget considerations, let's dive into the specific types of commercial door locks available:

01 Mechanical Locks (Key-Operated)

These familiar workhorses remain a popular choice for their simplicity and affordability. They are:

- **Pros:** Easy to install and maintain, ideal for low-risk areas.
- **Cons:** Limited security, vulnerable to lost or stolen keys, and offers no access control capabilities.

Variations of Mechanical Locks:

- **Deadbolts:** Provide enhanced security with a single, strong bolt and are often used with another lock for added protection.
- **Disc Locks:** Offer increased picking resistance compared to standard pin-tumbler locks.
- **Mortise Locks:** Heavy-duty options

well-suited for high-traffic doors due to their robust internal mechanisms.

Ideal For: Low-risk areas like interior office doors, storage closets, or situations with a limited budget.



02 Electromagnetic Locks (Mag Locks)

For high-security applications, electromagnetic locks offer a powerful solution:

- **Pros:** Deliver exceptional holding force, ideal for securing restricted areas. Their fail-safe design ensures doors unlock during power outages.
- **Cons:** Require constant electrical current to function and are vulnerable if the power supply is tampered with. Not recommended for exterior doors due to weather concerns.

Ideal For: High-security entrances, server rooms, data centers, and areas requiring restricted access control.

03 Electronic Locks (Keypads, Keycards)

Striking a balance between affordability and security, electronic locks are a popular choice for many businesses:

- **Pros:** Enhanced security compared to mechanical locks, offering audit trails for access control. Lost or stolen keycards can be easily deactivated.
- **Cons:** Installation and maintenance can be more complex than mechanical locks. Some user training might be required.

Ideal For: Offices, retail stores, schools, and buildings where various access levels are needed for different personnel.

04 Biometric Locks

Biometric locks represent the cutting edge of access control technology:

- **Pros:** Highly secure, granting access based on unique physical characteristics like fingerprints or facial recognition.
- **Cons:** They are the most expensive option, and potential technical challenges exist with fingerprint readers. User acceptance might also be a concern.

Ideal For: High-security facilities like banks, data centers, and areas requiring the strictest access control measures.

05 Access Control Systems

For comprehensive security management, access control systems offer a centralized solution:

- **Pros:** Provide centralized control of all electronic locks within a facility. They are scalable to accommodate future needs and integrate seamlessly with other security systems.
- **Cons:** The most complex and expensive option, requiring ongoing software maintenance and technical expertise for implementation.

Ideal For: Large commercial buildings, campuses, and businesses requiring a comprehensive security infrastructure with granular access control.

By understanding the strengths and weaknesses of each lock type, you can make an informed decision and choose the optimal solution that safeguards your commercial property and its assets. The next chapter will explore additional considerations, such as compliance and maintenance, to equip you with a well-rounded perspective on selecting the perfect commercial door lock.



Beyond the Lock: Additional Considerations

Selecting the optimal lock goes beyond simply evaluating the technology itself. Let's find what additional factors to consider for a well-rounded security strategy:

Compliance with Regulations and Building Codes

Certain industries or building types may have specific security protocols outlined in regulations or building codes. Here's what to consider:

- **Fire Safety:** Some regulations mandate specific lock features, such as fail-safe mechanisms that automatically unlock during a fire.
- **Accessibility:** Building codes may require locks that are accessible to people with disabilities.
- **Data Security:** Businesses handling sensitive information might have industry-specific regulations regarding access control measures.

Consulting with a security professional or your local building department can ensure your chosen locks comply with all relevant regulations.



Maintenance Requirements for Different Lock Types

While some locks are virtually maintenance-free, others require regular attention:

- **Mechanical Locks:** Periodic lubrication and key replacement might be necessary.
- **Electronic Locks:** Battery changes and occasional software updates may be needed.
- **Biometric Locks:** Regular cleaning of fingerprint scanners might be required to ensure optimal performance.

Understanding the maintenance requirements of different lock types will help you factor in ongoing costs and ensure your system functions smoothly over time.



Scalability - Future Needs of the Business

Consider your business's growth trajectory when selecting a lock system:

- **Modular Systems:** Opt for electronic locks with the ability to add new users or access points as your business expands.
- **Scalable Cloud-Based Access Control:** Cloud-based systems allow for easy addition of new locations or users to your security network.

Choosing a scalable system can save you money and hassle in the long run as your business grows.

By incorporating these additional considerations, you can ensure your chosen lock system not only meets your current security needs but also adapts to your future requirements. The next chapter will provide a glossary of common lock-related terms to further empower your decision-making process.

Putting it All Together Projects and Implementation

Recent **Projects**

AORBIS is a leading provider of door hardware solutions for commercial and residential projects. With a commitment to quality and security, AORBIS partners with reputable manufacturers to deliver top-notch door lock systems. Our expertise lies in specifying the right hardware for each project, ensuring optimal functionality, durability, and safety. AORBIS has an extensive track record of successful projects, solidifying our position as a trusted name in the industry.

01 **Timber Ridge Apartments Project**

Overview of the Project: AORBIS has been tasked with providing door locks for the Timber Ridge Apartments project. The specific requirement is for Schlage Mortise locks and Cylindrical Lock Residential Grade door locks.

Specific Lock Requirements:

- **Schlage Mortise Locks:** These locks offer high security and durability suitable for the residential environment of Timber Ridge Apartments. They are known for their reliability and strength, providing peace of mind to the residents.
- **Cylindrical Locks Residential Grade:** Such types of locks are common in residential settings due to their ease of installation and cost-effectiveness. They provide a basic level of security while being user-friendly for the apartment residents.

Reasons for Choosing AORBIS:

- **Experience and Expertise:** AORBIS has a proven track record of providing high-quality door locks for residential projects. With our expertise, we can ensure the selection of door locks that meet the specific security and operational requirements of Timber Ridge Apartments.
- **Product Range:** AORBIS offers a diverse range of door locks, including Schlage Mortise and Cylindrical Locks Residential Grade, ensuring that the project can benefit from a comprehensive



selection of options to best suit the needs of the apartments.

- **Reliability:** AORBIS is known for its reliability in delivering products on time and according to specifications. This reliability is crucial for the timely completion of the Timber Ridge Apartments project.

Implementation Plan:

- **Product Selection:** A detailed evaluation and selection process was undertaken by AORBIS to ensure that the most suitable Schlage Mortise and Cylindrical Locks Residential Grade are chosen for each door in Timber Ridge Apartments.
- **Installation:** AORBIS oversaw the installation of the selected door locks, ensuring that they were correctly fitted and fully functional. This process usually involves skilled technicians to guarantee the proper implementation of the chosen locks.
- **Testing and Quality Assurance:** Before handing over the project to the client, AORBIS conducted thorough testing and quality assurance checks on each door lock to confirm that they meet the desired standards of security and functionality.

Conclusion: AORBIS's provision of Schlage Mortise and Cylindrical Locks Residential Grade for the Timber Ridge Apartments project showcases their commitment to delivering secure and reliable door lock solutions for residential settings. With our experience, expertise, and product range, AORBIS is poised to contribute to the success of the project by ensuring that the door locks meet all requirements effectively.

02 Putnam School Apartments Renovation Project

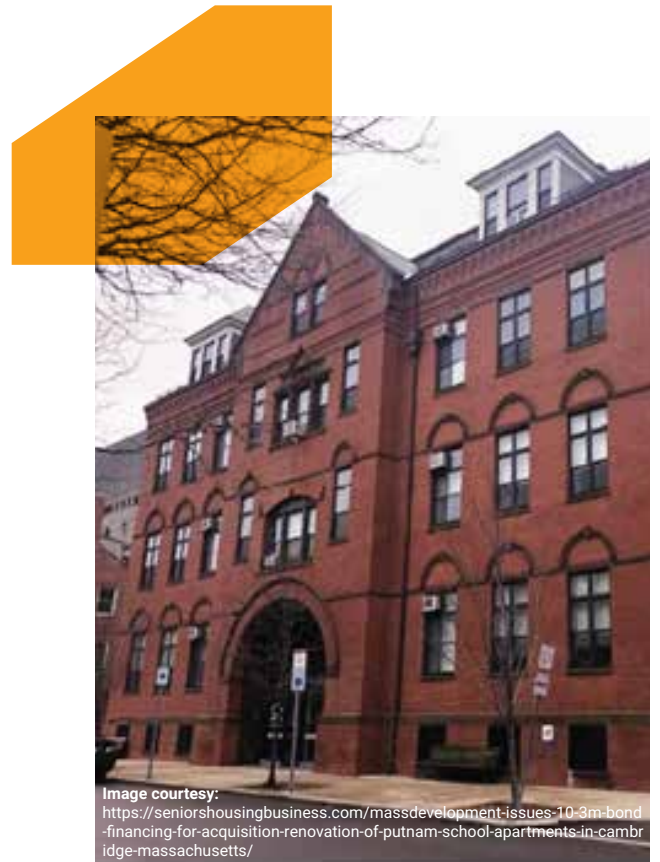
Overview of the Project: AORBIS has been entrusted with supplying door locks for the renovation of Putnam School Apartments. The project requires Yale Mortise locks to enhance the security and functionality of the renovated living spaces.

Specific Lock Requirements:

- **Yale Mortise Locks:** These locks are known for their advanced security features, making them ideal for the safety needs of residential spaces like Putnam School Apartments. Yale locks provide a high level of protection against intruders, ensuring the safety and peace of mind of the apartment residents.

Reasons for Choosing AORBIS:

- **Specialized Expertise:** AORBIS possesses specialized knowledge and experience in providing high-quality door-locking solutions for various projects. Our expertise ensures that the Yale Mortise locks chosen for Putnam School Apartments meet the stringent security requirements of the renovation.
- **Product Quality:** AORBIS is committed to supplying premium door lock products that offer



durability, reliability, and top-notch security features. The Yale Mortise locks provided will adhere to the highest standards of quality, meeting the expectations of the renovation project.

- **Customized Solutions:** AORBIS offers tailored solutions to meet the specific needs of each project. By understanding the unique requirements of the Putnam School Apartments renovation, AORBIS can deliver door locks that are perfectly suited to enhance the safety and functionality of the living spaces.

Implementation Plan:

- **Lock Selection Process:** AORBIS conducted a meticulous selection process to identify the most appropriate Yale Mortise locks for installation at Putnam School Apartments. This process involved considering factors such as security levels, compatibility, and aesthetic appeal.
- **Installation Expertise:** AORBIS deployed skilled professionals to oversee the installation of the selected Yale Mortise locks. Proper installation was mandatory to ensure that the locks functioned effectively and provided the intended level of security to the renovated apartments.
- **Quality Assurance:** Before completion, AORBIS performed rigorous testing and quality assurance checks on all installed door locks. This step guarantees that each Yale Mortise lock meets the required standards and functions optimally, enhancing the overall security of the renovated living spaces.

Conclusion: AORBIS's provision of Yale Mortise locks for the Putnam School Apartments renovation project exemplifies our commitment to delivering top-tier door lock solutions that prioritize security, quality, and reliability.

Let's recap some key takeaways:

- Understanding your security needs is paramount. Factors like budget, door type, and access control requirements all play a crucial role in selecting the optimal lock system.
- The security landscape is evolving. Modern lock options like electronic locks, biometrics, and cloud-based access control offer enhanced security and convenience compared to traditional solutions.
- Implementation is key. Carefully consider the selection process, installation, and staff training to ensure a smooth transition to your new security system.

Do you still have questions or require assistance in selecting the perfect commercial door lock system for your business? **AORBIS can help!** As a dependable supplier and distributor of commercial door hardware, we offer a wide range of lock solutions and the expertise to guide you towards the optimal system for your needs.

Contact our security specialists today! We'll provide expert advice and tailor a solution that meets your specific requirements.

By leveraging AORBIS's experience and extensive product portfolio, you can ensure your commercial property is equipped with the best possible security measures. We wish you all the best in creating a secure future for your commercial space!



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Do the

Thing

GET IN TOUCH



(860) 317-7100



info@aorbis.com
www.aorbis.com



AORBIS Inc.
1111 Main Street,
East Hartford,
CT 06108-2241