

EDITION 2025

PREMIUM SECURITY SOLUTIONS

# METAL SYSTEM

Cutting-edge security doors and advanced locking systems. Engineered for maximum protection, designed for modern elegance.

SECURITY DOOR CHASSIS & FRAMES

SECURITY LOCKS

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**CHASSIS CATALOG 2025** 

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# O1 About Metal System

FOUR DECADES OF SECURITY EXCELLENCE & INNOVATION



## **Our Story**

Since 2000, Metal System has pioneered the security industry with innovative armored door and lock solutions that protect what matters most.

From our 12,500m<sup>2</sup> manufacturing complex in Thessaloniki, we combine precision engineering with expert craftsmanship to produce over 200 armored door chassis every day.

Our dedication to quality and technology has made us the trusted choice for residential and commercial security throughout Europe — protecting over 200,000 properties. 25+

YEARS

Of continuous innovation and progress

200+

**DAILY** 

Armored door chassis produced

12,500

**SQ METERS** 

Modern production facility

200k+

**PROPERTIES** 

Secured across Europe

Trusted by professionals

Architects • Builders • Security Consultants

ISO 9001:2015

# Our Capabilities

## WHERE INNOVATION MEETS PRECISION CRAFTSMANSHIP



#### **Robotic Precision**

Advanced CNC and robotic systems ensure absolute dimensional accuracy and consistent quality.



## **Custom Design**

Tailor-made solutions engineered to meet any architectural or technical requirement.



## **Quality Testing**

Rigorous in-house testing procedures that exceed European performance standards.



## **Smart Integration**

loT-ready locking systems compatible with mobile and access control platforms.



## **Rapid Delivery**

Production and dispatch within 15 working days, maintaining precision and reliability.



## **Expert Support**

Professional installation and lifetime after-sales technical support.

"Our mission is simple — to deliver uncompromising security solutions that embody precision, reliability, and trust. Every door we produce is a reflection of our dedication to excellence."

- Konstantinos Chostelidis & Michail Chostelidis, Co-Founders

# Why Choose Metal System

Four decades of experience, reliability, and trust



#### **European Quality**

Manufactured in Greece under the strictest EU standards for maximum durability and protection.



## **Complete Solutions**

From consultation to installation, we provide end-to-end security solutions tailored to your needs.



#### **Proven Reliability**

Over 200,000 installations across Europe validate the performance and longevity of our systems.



## **Innovation Focus**

Continuous R&D keeps us at the forefront of smart technology and advanced security integration.

# **Sustainability & Certifications**

Environmental responsibility and manufacturing excellence

Metal System operates in full compliance with all European environmental and manufacturing regulations. Our facilities are certified under ISO 9001:2015 and ISO 14001:2015, ensuring excellence in quality management and environmental responsibility.

We are committed to sustainable manufacturing practices — using recyclable materials, energy-efficient production systems, and waste reduction programs. Every product is designed for longevity and minimal environmental impact throughout its lifecycle, reflecting our dedication to responsible and ethical production.

# O3 Product Range

FOUR CATEGORIES OF EXCELLENCE

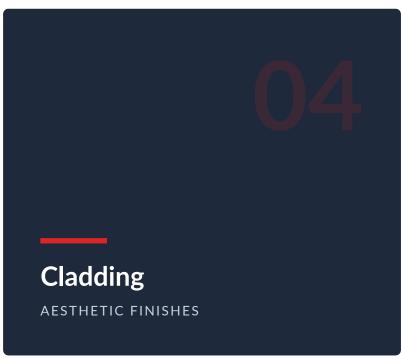


Door Components

PRECISION ENGINEER-

Security Locks

ADVANCED PROTECTION SYSTEMS



ING

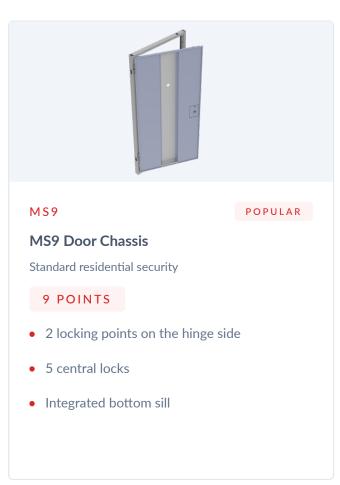
# O4 Security Doors

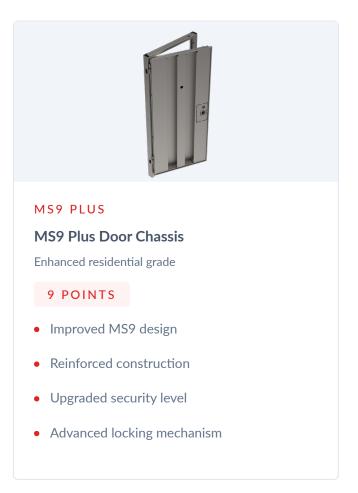
## ULTIMATE PROTECTION WITH STYLE AND RELIABILITY

Discover ultimate security with our security doors, designed to protect your home and business with style and reliability. Each door features an advanced multi-point locking system for maximum protection.

From residential to commercial applications, our complete range offers the perfect balance of security, durability, and easy installation. All models are manufactured with precision and expertise.

# **Available Standard Configurations**







#### MS17

#### **MS17 Door Chassis**

High-capacity configuration

## 17 POINTS

- 17-point security system
- Multiple locking zones
- Heavy-duty construction
- Professional-grade protection



#### MS19

POPULAR

#### **MS19 Door Chassis**

Full perimeter protection

## 19 POINTS

- 19-point security system
- Complete perimeter coverage
- Reinforced frame and leaf
- High-security certification



## MS14F

FIREPROOF

## **MS14F Fireproof Door Chassis**

Fire-rated protection system

## 18 POINTS

- Fire-resistant construction
- 18-point locking system
- Thermal expansion protection
- IE30



#### MS20

## **MS20 Door Chassis**

Maximum security configuration

## 20 POINTS

- 20-point protection system
- Full perimeter coverage
- Heavy-duty reinforced structure
- Highest-grade security configuration

09

# 4.1 Security Door MS9 9-POINT MULTI-LOCK PROTECTION SYSTEM

The MS9 model represents the foundation of residential security engineering. Featuring a comprehensive 9-point locking system with strategic placement across the entire door perimeter, it delivers robust protection while maintaining ease of installation and operation.

## **Key Advantage**

Perfect balance of security and cost-effectiveness for residential use. Ideal for installations where the threshold (lower frame section) is recessed into the floor.









Top and bottom locking point detail

LOCKING POINTS

9

Strategic placement

INSTALLATION

**EASY** 

Wall Mounted (Side)

PRICE POINT

**VALUE** 

Cost-effective

# **Technical Specifications**

FRAME MATERIAL	Cold-rolled steel 1.25mm	LOCK POINTS	9-point multi-lock system
FRAME PROFILE	60 × 40mm rectangular tube	DOOR THICKNESS	0.6mm
COATING	Electrostatic powder	DOOR LEAF UPRIGHTS	0.6mm
	coating		



MS9 frame with front cladding



MS9 frame with rear cladding

# **Key Features**

1

## 9-Point Locking System

Comprehensive perimeter security with strategic lock placement across all sides



## Recessed Threshold Design

Lower frame embeds flush into floor for seamless installation and accessibility



## **Adjustable Hinges**

Easy hinge adjustment for perfect door alignment



## **Cost-Effective Security**

Optimal balance of residential protection and affordability for homes and apartments

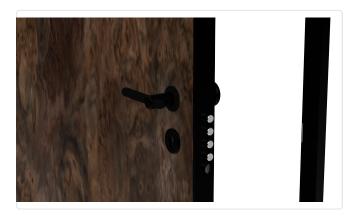
# 9-Point Locking System



Top locking point mechanism



Bottom threshold lock

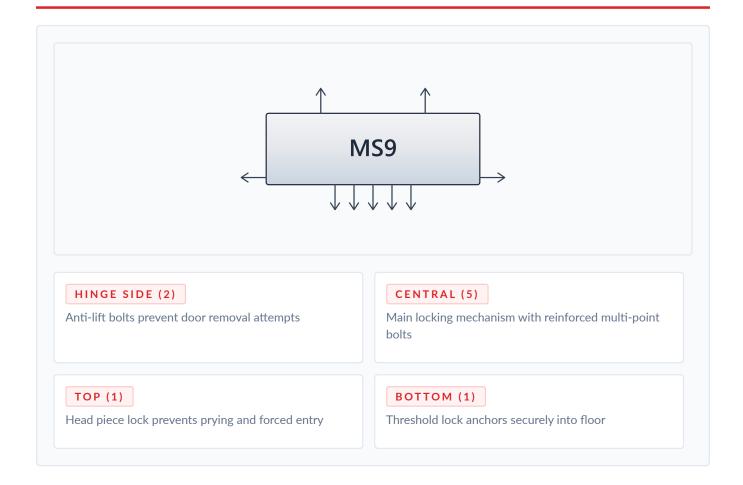


Central multi-point locks



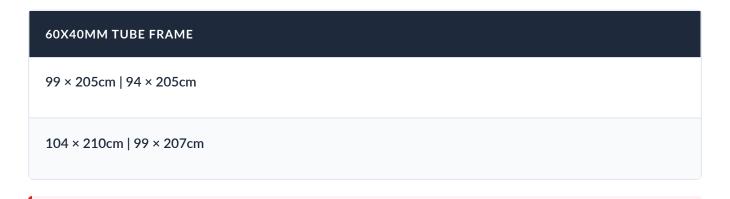
Hinge-side anti-lift bolts

# 9-Point Locking System



# **Available Dimensions (Examples)**

The above dimensions are indicative. Width increases in 5 cm increments and height is adjusted according to project requirements.



Complete dimensional customization available upon request. Contact technical team for non-standard specifications.

# **Ideal Applications**

1

## **Residential Properties**

Ideal for apartments, houses, and condominiums requiring robust security at an accessible price point.

Family homes Apartments Condominiums

2

## **Light Commercial**

Perfect for offices, retail spaces, and professional facilities with standard security needs.

Small offices Retail stores Professional studios

3

## **Renovation Projects**

Excellent for retrofitting existing properties to enhance security without major structural changes.

Building upgrades Security improvements Door replacements

# **Model Comparison**

FEATURE	MS9	MS9 PLUS	MS17
Locking Points	9	9	17
Door Thick.	0.6mm	0.8mm	0.8mm
	2x0.6mm	3x0.8mm	2x0.6mm
Recessed Threshold	Yes	Yes	No
Security Grade	- (Not Rated)	- (Not Rated)	RC2
Best For	Residential	Enhanced Res.	Both

# 4.2 Security Door MS9 Plus REINFORCED MULTI-LOCK SYSTEM WITH ENHANCED DURABILITY

The MS9 Plus builds on the proven MS9 model with a reinforced door leaf for superior durability and impact resistance. Based on the same 9-point locking architecture, it's designed for high-traffic commercial environments and premium residential applications requiring long-term reliability.

## **Reinforced Construction**

Enhanced door leaf with increased thickness combined with dual hollow-beam frame (60×40 mm + 60×30 mm) delivers superior impact resistance and decades of dependable performance in demanding installations.









Cladded side view

LOCKING POINTS

9

Multi-point system

DOOR LEAF

# REINFORCED 0.8mm

Heavy-duty construction

FRAME

## **DUAL BEAM**

60×40 + 60×30 mm

# **Technical Specifications**

FRAME MATERIAL	Cold-rolled steel 1.25 mm	LOCK POINTS	9-point multi-lock sys- tem
FRAME PROFILE	Tube 60×40 mm & 60×30 mm	DOOR THICKNESS	0.8 mm
COATING	Electrostatic powder coating	DOOR LEAF UPRIGHTS	3x0.8mm







MS9 Plus frame with rear cladding

# **Key Features**

# Reinforced Door Leaf

Increased 0.8 mm thickness with triple uprights.

# 2 Dual Hollow-Beam Frame

60×40 mm and 60×30 mm hollow-beam structure ensures exceptional rigidity and stability.

# 3 Adjustable Hinges

Easy hinge adjustment for perfect door alignment.

# 4 9-Point Locking System

Proven MS9 multi-point locking system with reinforced mounting for optimal load distribution.

# 9-Point Locking System



Top locking point detail



Bottom locking point detail

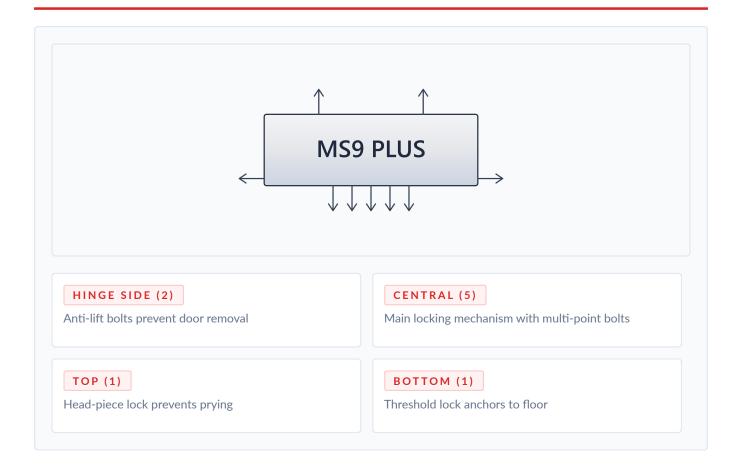


Central locking points close-up



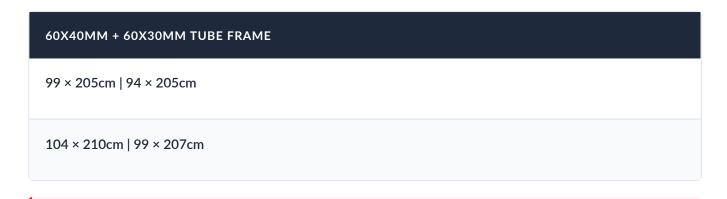
Hinge-side locking detail

# 9-Point Locking System



# **Available Dimensions (Examples)**

The above dimensions are indicative. Width increases in 5 cm increments and height is adjusted according to project requirements.



Complete dimensional customization available upon request. Contact technical team for non-standard specifications.

# **Ideal Applications**

1

## **Commercial Properties**

Designed for office buildings, retail stores, hotels, and healthcare facilities.

Office buildings Retail stores Hotels Healthcare facilities

2

## **Premium Residential**

Ideal for luxury apartments, condominiums, and high-end properties.

Luxury apartments Premium condos High-end townhouses Gated communities

3

## **High-Traffic Environments**

Perfect for institutions, educational buildings, and public spaces.

Educational institutions Government buildings Community centres Public facilities

# **Model Comparison**

FEATURE	MS9	MS9 PLUS	MS17
Locking Points	9	9	17
Door Thick.	0.6mm	0.8mm	0.8mm
	2x0.6mm	3x0.8mm	2x0.8mm
Recessed Threshold	Yes	Yes	No
Security Grade	- (Not Rated)	- (Not Rated)	RC2
Price Range	€	€€	€€
Best For	Residential	Enhanced Res.	Both

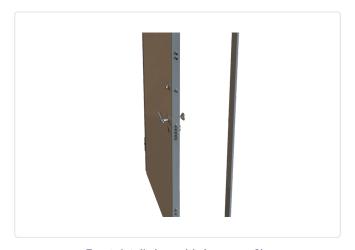
# 4.3 Security Door MS17 17-POINT MAXIMUM SECURITY PROTECTION SYSTEM

The MS17 frame delivers advanced commercial-grade security with a 17-point locking system - 7 locking points on the hinge side and 10 on the lock side. Designed for high-security installations requiring strength, flexibility, and durability.

## **Dual Frame Flexibility**

Two frame configuration options provide installation versatility, including optional pre-drilled screw holes for rapid or retrofit mounting applications.





Front detail view with frame profile



Top and bottom locking point detail

LOCKING POINTS

17

7 hinge + 10 lock side

SECURITY GRADE

RC2

EN 1627 certified

FRAME OP-TIONS

2

Maximum flexibility

DOOR LEAF

**STEEL** 

High-strength

# **Technical Specifications**

5mm	SECURITY RATING	RC2 (EN 1627)
mm/0.8mm	LOCK STANDARD	Based on selected lock type
7 hinge + 10 lock	THERMAL INSULATION	Optional
2)	SOUND INSULATION	Optional
	nm/0.8mm 7 hinge + 10 lock	nm/0.8mm LOCK STANDARD  THERMAL INSULATION 7 hinge + 10 lock







Locking mechanism close-up detail



## TECHNICAL INFORMATION

Thermal and sound insulation available with certified performance ratings (EN ISO 10077, EN ISO 717). Contact our technical team for detailed specifications, test reports, and customization options.

# **Key Features**



## 17-Point Locking System

Advanced protection with 7 hinge-side and 10 lock-side locking points for complete perimeter security.



## **Dual Frame Configurations**

Two frame options, with pre-drilled holes available for screw-mounted installation when needed.



# Automatic Bottom Seal/Threshold

Automatically adjusts to seal the gap at the bottom of the door, preventing drafts and dust ingress.



# Adjustable Hinge Positioning

Allows for precise alignment during installation.



Bottom locking detail



Top and middle locking detail



Automatic threshold system



Hinge side lock and threshold switch

# 17-Point Locking System



# **Available Dimensions (Examples)**

STANDARD FRAME	TUBE FRAME
88 x 202 cm	90 × 205 cm
93 x 207 cm	95 × 210 cm
98 x 212 cm	100 × 215 cm
103 x 217 cm	105 × 220 cm

Dimensions available in 5 cm increments. (Width or Height), Custom sizes accepted with tube frame.

# **Frame Configuration Options**

#### OPTION

# Pressed / Welded Frame

Pressed and welded steel plates in an 80×40mm profile — lightweight and easy to install.



#### KEY FEATURES

- 1.25mm thickness
- Pressed and welded steel construction
- Profile 20×48mm
- Standard height-width dimensions
- Widths: 88-93-98-103 cm (Wall-to-Wall)
- Heights: 202-207-212-217 cm (Wall-to-Wall)

## BEST FOR

Standard installations where lower weight is preferred.

Dimensions available in 5 cm increments.

#### OPTION 2

## **Hollow Beam Frame**

Single-piece hollow beam 60×30mm with optional screw holes and plastic covers for concealed mounting.



#### **KEY FEATURES**

- 1.25mm thickness
- Hollow beam 60×30mm
- Profile 60×30mm
- Standard or custom dimensions
- Widths: 90-95-100-105 cm (Wall-to-Wall)
- Heights: 205-210-215-220 cm (Wall-to-Wall)

#### **BEST FOR**

Renovations and projects requiring precision fitting and minimal wall void filling.

Ideal for installations where high accuracy is required.

Contact our technical team for custom frame configurations and installation guidance.

# **Ideal Applications**

**(1**)

## **Commercial Buildings**

For offices, retail spaces, and facilities requiring robust protection without reinforced leaf construction.

Office buildings Retail stores Commercial facilities Professional spaces

2

## **Medium-Security Facilities**

Provides strong protection with dual frame options for different mounting conditions.

Pharmacies Clinics Small banks Professional studios

3

## **Retrofit & Upgrades**

Ideal for upgrading existing frames with screw-ready options for faster installation.

Renovations Security upgrades Retrofit projects Quick installs

# **Model Comparison**

FEATURE	MS17	MS19	MS20
Locking Points	17	19	20
Frame Thickness	1.25mm	1.25mm	1.25mm
Door Thickness	0.6mm	0.8mm	0.8mm
Door Leaf Uprights Thickness	2x0.6mm	3x0.8mm	3x0.8mm
Security Rating	RC2	RC2/RC3	RC2/RC3
Best For	Commercial	High Security	Maximum

# 4.4 Security Door MS19 19-POINT ULTRA-SECURITY PROTECTION SYSTEM

The MS19 delivers maximum protection with a 19-point locking system - 7 locking points on the hinge side and 12 on the lock side. Designed for high-security environments requiring reinforced construction and multi-configuration installation flexibility.

## **Triple Frame Flexibility**

Three frame configuration options provide installation versatility for any wall thickness or mounting scenario, from standard applications to advanced high-security environments.





Reinforced door leaf construction detail



Multi-point locking mechanism close-up

LOCKING POINTS

19

7 hinge + 12 lock side

SECURITY GRADE

RC2/RC3

EN 1627 certified

FRAME OP-TIONS

3

Maximum flexibility

DOOR LEAF

0.8mm

Reinforced structure

# **Technical Specifications**

FRAME THICKNESS	1.25mm	SECURITY RATING	RC2/RC3 (EN 1627)
DOOR THICKNESS	0.8mm	LOCK STANDARD	Based on selected lock type
DOOR LEAF UPRIGHTS	3x0.8mm	THERMAL INSULATION	Optional
LOCKING POINTS	19 (7 hinge + 12 lock side)	SOUND INSULATION	Optional







19-point locking system detail view



## TECHNICAL INFORMATION

Thermal and sound insulation available with certified performance ratings (EN ISO 10077, EN ISO 717). Contact our technical team for specifications, test reports, and customization options.

# **Key Features**



## 19-Point Locking System

Provides full-perimeter protection with 7 hinge-side and 12 lock-side locking points.



## **Reinforced Steel Construction**

The galvanized reinforced door leaf ensures maximum durability and resistance to impact or forced entry.



## **Triple Frame Configurations**

Three frame options offer flexibility for any installation scenario, from standard to high-security setups.



# RC3 Certified Protection (Optional)

Available with EN 1627 RC3 certification for demanding security applications.



Bottom locking detail



Top and middle locking detail

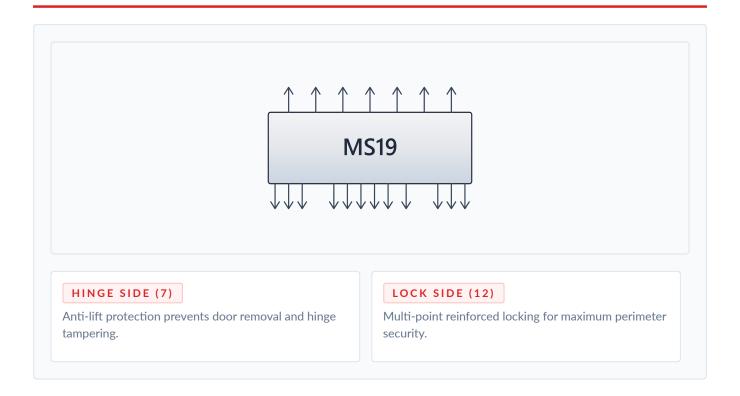


Automatic threshold mechanism



Hinge side lock and threshold switch

# 19-Point Locking System



# **Available Dimensions (Examples)**

STANDARD FRAME	TUBE FRAME / REINFORCED FRAME	REINFORCED FRAME
88 x 202 cm	90 × 205 cm	90 × 205 cm
93 x 207 cm	95 × 210 cm	95 × 210 cm
98 x 212 cm	100 × 215 cm	100 × 215 cm
103 x 217 cm	105 × 220 cm	105 × 220 cm

Dimensions available in 5 cm increments. (Width or Height). Custom sizes accepted with tube or reinforced frame.

# **Frame Configuration Options**

#### OPTION 1

# Pressed / Welded Frame

Pressed and welded steel plates in an 80×40mm profile — lightweight and easy to install.



#### KEY FEATURES

- 1.25mm thickness
- Pressed and welded steel construction
- Profile 20×48mm
- Standard height-width dimensions
- Widths: 88-93-98-103 cm (Wall-to-Wall)
- Heights: 202-207-212-217 cm (Wall-to-Wall)

## BEST FOR

Standard installations where lower weight is preferred.

Dimensions available in 5 cm increments.

#### OPTION 2

# **Hollow Beam Frame**

Single-piece hollow beam 60×30mm with optional screw holes and plastic covers for concealed mounting.



#### **KEY FEATURES**

- 1.25mm thickness
- Hollow beam 60×30mm
- Profile 60×30mm
- Standard or custom dimensions
- Widths: 90-95-100-105 cm (Wall-to-Wall)
- Heights: 205-210-215-220 cm (Wall-to-Wall)

## BEST FOR

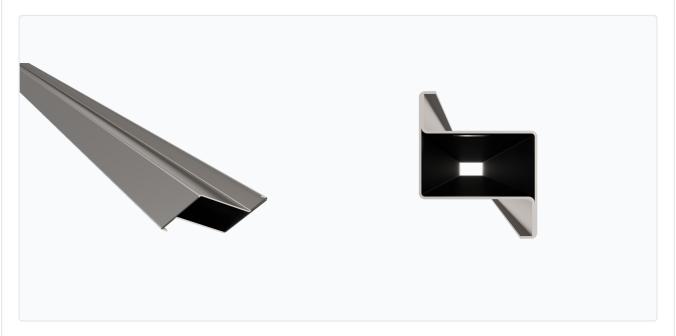
Renovations and projects requiring precision fitting and minimal wall void filling.

Ideal for installations where high accuracy is required.

#### OPTION 3

# **Reinforced Frame**

Frame with increased rigidity for high-security applications.



## KEY FEATURES

- 1.25mm thickness
- Profile 30×48mm
- Adjustable wall thickness configuration
- Reinforced anchoring points

## BEST FOR

High-security installations.

Recommended when maximum rigidity and protection are required.

Contact our technical team for custom frame configurations and installation guidance.

# **Ideal Applications**

1

## **High-Security Residential**

Premium protection for villas, luxury homes, and high-value properties requiring reinforced construction and full perimeter security.

Luxury residences Gated communities Executive homes High-value properties

2

## **Commercial & Financial Facilities**

Optional certifications for RC3 security.

Banks Office buildings Data centers Secure storage

3

## Institutional & Government

Certified protection for government, medical, and research facilities with strict security standards.

Government offices Hospitals Laboratories Secure archives

# **Model Comparison**

FEATURE	MS17	MS19	MS20
Locking Points	17	19	20
Frame Thickness	1.25mm	1.25mm	1.25mm
Door Thickness	0.6mm	0.8mm	0.8mm
Security Rating	RC2	RC2/RC3	RC2/RC3
Best For	Commercial	High-Security	All-Out Protection

# 4.5 Security Door MS20 20-POINT COMPLETE PERIMETER PROTECTION SYSTEM

The MS20 provides complete perimeter security with a 20-point locking system — 7 hinge-side, 12 lock-side, and 1 head frame locking point. Designed for ultra-secure environments requiring full edge coverage and reinforced structural integrity.

## **Complete Edge Coverage**

The additional head frame locking point completes the perimeter protection, securing the upper edge and eliminating the final vulnerability. Combined with three frame configurations for any installation scenario.





Head frame locking mechanism detail



Full perimeter locking system coverage

LOCKING POINTS

20

7 hinge + 12 lock + 1 head

SECURITY GRADE

RC2/RC3

EN 1627 certified

FRAME OP-TIONS

3

Maximum flexibility

DOOR LEAF

0.8mm

Reinforced structure

# **Technical Specifications**

FRAME THICKNESS	1.25mm	SECURITY RATING	RC2/RC3 (EN 1627)
DOOR THICKNESS	0.8mm	LOCK STANDARD	Based on selected lock type
DOOR LEAF UPRIGHTS	3x0.8mm	THERMAL INSULATION	Optional
LOCKING POINTS	20 (7 hinge + 12 lock + 1 head)	SOUND INSULATION	Optional







20-point locking system detail view



## TECHNICAL INFORMATION

Thermal and sound insulation available with certified performance ratings (EN ISO 10077, EN ISO 717). Contact our technical team for full specifications and certifications.

# **Key Features**

1

### 20-Point Locking System

Full-perimeter protection with 7 hinge-side, 12 lock-side, and 1 head frame locking point.



### **Head Frame Locking**

The additional top locking point enhances protection by securing the upper edge of the door.



### **Triple Frame Configurations**

Three frame options for any installation type — from standard to ultra-high security.



### **RC2/RC3 Certified Protection**

Tested and certified under EN 1627 to resist advanced intrusion attempts.



Top locking point



Middle and bottom locking points

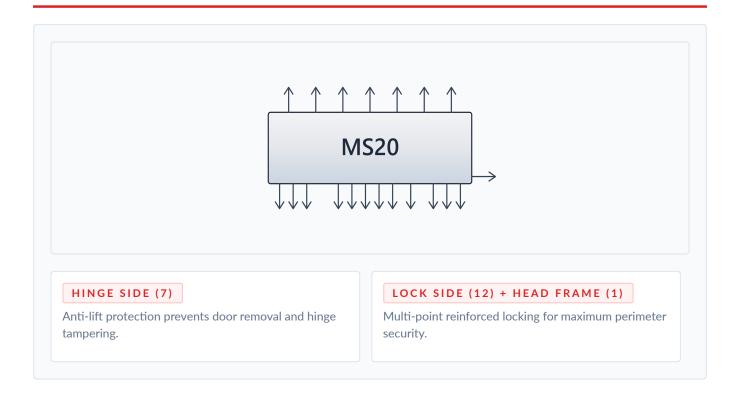


Automatic threshold seal



Hinge-side locking reinforcement

# **20-Point Locking System**



# **Available Dimensions (Examples)**

STANDARD FRAME	TUBE FRAME	REINFORCED FRAME
88 x 202 cm	90 × 205 cm	90 × 205 cm
93 x 207 cm	95 × 210 cm	95 × 210 cm
98 x 212 cm	100 × 215 cm	100 × 215 cm
103 x 217 cm	105 × 220 cm	105 × 220 cm

Dimensions available in 5 cm increments. Custom sizes available with tube or reinforced frame configurations.

# **Frame Configuration Options**

### OPTION

### **Pressed / Welded Frame**

Pressed and welded steel plates in an 80×40mm profile — lightweight and easy to install.



### **KEY FEATURES**

- 1.25mm thickness
- Pressed and welded steel construction
- Profile 20×48mm
- Standard height-width dimensions
- Widths: 88-93-98-103 cm (Wall-to-Wall)
- Heights: 202-207-212-217 cm (Wall-to-Wall)

### BEST FOR

Standard installations where lower weight is preferred.

Dimensions available in 5 cm increments.

### OPTION 2

# **Hollow Beam Frame**

Single-piece hollow beam 60×30mm with optional screw holes and plastic covers for concealed mounting.



### KEY FEATURES

- 1.25mm thickness
- Hollow beam 60×30mm
- Profile 60×30mm
- Standard or custom dimensions
- Widths: 90-95-100-105 cm (Wall-to-Wall)
- Heights: 205-210-215-220 cm (Wall-to-Wall)

### BEST FOR

Renovations and projects requiring precision fitting and minimal wall void filling.

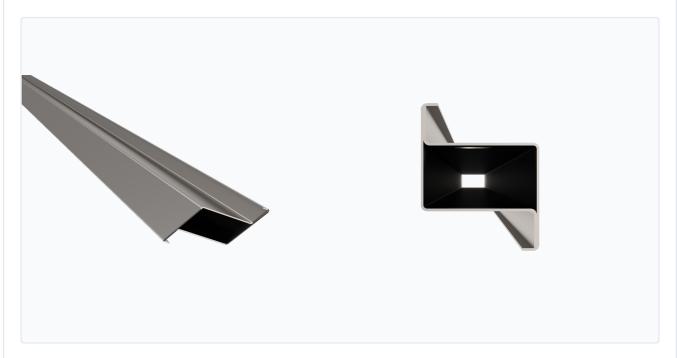
Ideal for installations requiring high accuracy.

40

### OPTION 3

# **Reinforced Frame (Maximum Security)**

Heavy-duty frame with increased rigidity for maximum security applications.



### KEY FEATURES

- 1.25mm thickness
- Profile 30×48mm
- Adjustable wall thickness configuration
- Reinforced anchoring points
- Optimized for RC2/RC3 performance

### BEST FOR

High-security facilities such as vaults, data centers, and government installations.

Recommended for environments requiring maximum rigidity and protection.

Contact our technical team for custom frame configurations and installation guidance.

# **Ideal Applications**



### **Maximum Security Residential**

Full-perimeter protection for luxury homes and high-value properties, including head frame locking for total coverage.

Luxury estates Villas Penthouses High-value residences



### **High-Security Facilities & Vaults**

RC3-certified security with head locking for banks, vaults, and secure storage requiring full perimeter coverage.

Vaults Banks Archives High-value storage rooms



### **Government & Critical Infrastructure**

Complete protection for government offices, data centers, and secure installations where full perimeter locking is essential.

Government offices Data centers Server rooms Critical facilities

# **Model Comparison**

FEATURE	MS17	MS19	MS20
Locking Points	17	19	20
Frame Thickness	1.25mm	1.25mm	1.25mm
Door Thickness	0.6mm	0.8mm	0.8mm
Door Leaf Uprights	2x0.6mm	3x0.8mm	3x0.8mm
Security Rating	RC2	RC2/RC3	RC2/RC3
Best For	Commercial	High-Security	<b>Maximum Protection</b>

# 4.6 Security Door Chassis MS14F FIRE-RATED PROTECTION WITH 18-POINT SECURITY

The MS14F delivers EI30 certified fire protection with 18-point security in a single system. With 30-minute fire rating and robust 60×30mm hollow tube frame, it provides essential fire compartmentalization for residential and light commercial buildings.

### Fire & Security Combined

Most fire doors sacrifice security. The MS14F delivers both—18-point locking with head lock for complete protection, plus EI30 fire certification meeting European safety standards.





Detailed front view/ rockwool infill.



Detailed front view/ MDF finish (Cladded).

LOCKING POINTS

18

7 hinge + 1 head + 10 lock

FIRE RATING

**EI30** 

30 minutes certified

FRAME TYPE

60×30mm

Hollow tube

SECURITY GRADE

RC2

EN 1627 certified

**METAL SYSTEM CATALOG** 

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# **Technical Specifications**

FRAME THICKNESS	1.25 mm	FIREPROOF MATERIALS Rockwool, Gypsum  Board (Plasterboard)	
DOOR THICKNESS	0.8 mm	SECURITY RATING	RC2
EXTRA DOOR LEAF	0.8 mm	FIRE RATING	EI30 (30 minutes certi-
LOCKING POINTS	18 (7 hinge + 1 head + 10 lock)		fied)
	10 lock)	LOCK STANDARD	Depends on Lock Type







Side View.



### TECHNICAL INFORMATION

Fire certification compliant with EN 1634-1 for 30-minute fire resistance. Contact our technical team for detailed specifications, test reports, and customization options.

# **Key Features**

1

### **EI30 Fire Certification**

Certified 30-minute fire resistance, providing critical evacuation time



# 18-Point Locking System

Complete perimeter protection with head locking point



### **Hollow Tube Frame**

60×30mm, 1.25mm hollow tube for durability, thermal stability, and easy installation

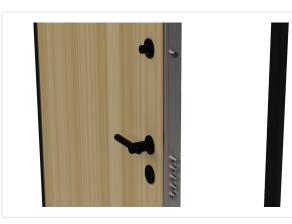


# 7-Point Hinge Protection

Maintains integrity during fire and prevents forced entry



Lock Detail at the Head



Upper & Middle Lock Detail

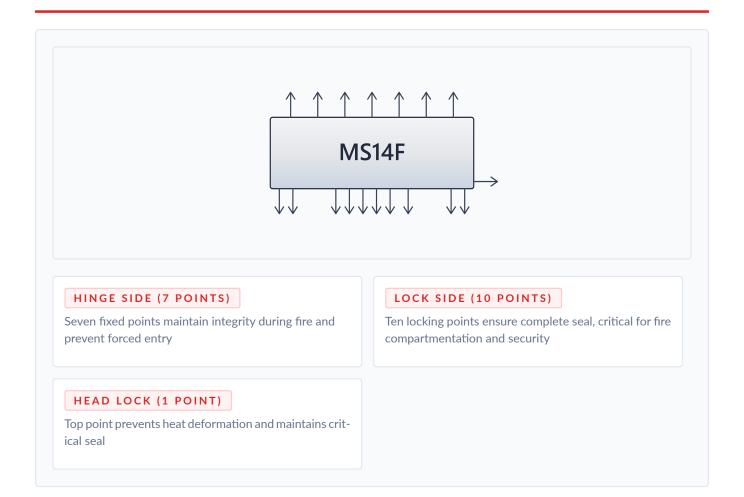


Lower Lock Detail



Automatic Drop Seal/Threshold/Weatherstrip

# 18-Point Fire-Resistant Locking System



# **Available Dimensions (Examples)**

# TUBE FRAME 90 × 205 cm / 95 × 210 cm / 100 x 205 cm 100 × 215 cm / 105 × 220 cm / 90 x 220 cm

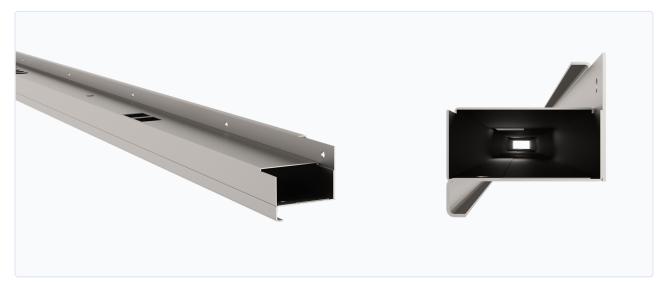
Standard increment by 5cm height or width. Custom dimensions available upon request. Contact our technical team for guidance on sizing and installation.

# **Frame Configuration Options**

### STANDARD

# Hollow Beam Frame

Single-piece hollow beam 60×30mm with optional screw holes and plastic covers for concealed mounting.



### KEY FEATURES

- 1.25mm thickness
- Hollow beam 60×30mm
- Profile 60×30mm
- Standard or custom dimensions
- Widths: 90-95-100-105 cm (Wall-to-Wall)
- Heights: 205-210-215-220 cm (Wall-to-Wall)

### BEST FOR

Renovations and projects requiring precision fitting and minimal wall void filling.

Ideal for installations where high accuracy is required.

Contact our technical team for installation guidance and fire certification documentation.

# **Ideal Applications**



### **Residential Buildings**

Fire protection for apartments, multi-family homes, and residential complexes where 30-minute fire resistance meets building codes.

Apartment buildings Multi-family homes Residential complexes Common areas



### **Light Commercial**

Fire safety for offices, small retail spaces, and commercial facilities requiring certified 30-minute fire protection.

Office buildings Retail stores Small commercial facilities Professional spaces



### **Educational Facilities**

Fire compartmentalization for schools, training centers, and educational buildings where safety codes mandate fire-rated doors.

Schools Training centers Educational buildings Dormitories

# 4.7 Standard Configuration Comparison COMPLETE MODEL OVERVIEW & SELECTION GUIDE

### **Model Overview**

MS9

### **Residential Security**

Base model for home and apartment use, featuring a 9-point locking system and 0.6 mm galvanized door leaf.

- 9 locking points
- 1.25 mm frame thickness
- 2 uprights × 0.6 mm door leaf

### MS9 PLUS

# Reinforced Residential / Light Commercial

Upgraded version with a reinforced 0.8 mm door leaf and dual 60×40 mm + 60×30 mm hollow-beam frame for higher durability.

- 9 locking points
- 1.25 mm frame thickness
- 3 uprights × 0.8 mm door leaf

### MS17

### **Commercial Security**

17-point locking system with pressed or tube frame and 0.6 mm galvanized door leaf.

- 17 locking points
- 1.25 mm frame thickness
- 2 uprights × 0.6 mm door leaf

### MS19 / MS20

### **High-Security**

Reinforced 0.8 mm door leaf, 3 uprights, and up to 20 locking points for critical applications.

- 19-20 locking points
- 1.25 mm frame thickness
- 3 uprights × 0.8 mm door leaf

### MS14F

### **Fire-Rated Security**

El60 fire-rated door with 0.8 mm leaf and hollow-beam frame.

- 18 locking points
- 1.25 mm frame thickness
- El60 fire rating

# **Detailed Technical Comparison**

FEATURE	MS9	MS9 PLUS
Total Locking Points	9	9
Frame Thickness	1.25 mm	1.25 mm
Frame Type	Hollow Beam/Tube	Dual Hollow-Beam/Tube
Frame Options	1 (60x40x1.25mm)	1 (60x40x1.25 + 60x30x1.25mm)
Door Leaf (Door Thickness)	0.6 mm	0.8 mm
Door Leaf Uprights	2 × 0.6 mm	3 × 0.8 mm
Security Rating	-	RC2
Fire Rating	_	_

# **Detailed Technical Comparison**

FEATURE	MS17	MS19	MS20	MS14F
Total Locking Points	17	19	20	18
Frame Thickness	1.25 mm	1.25 mm	1.25 mm	1.25 mm
Frame Type	Pressed / Tube	Pressed / Tube / Reinforced	Pressed / Tube / Reinforced	Hollow Beam
Frame Options	2	3	3	3
Door Leaf (Door Thickness)	0.6 mm	0.8 mm	0.8 mm	0.8 mm
Door Leaf Uprights	2 × 0.6 mm	3 × 0.8 mm	3 × 0.8 mm	3 × 0.8 mm
Security Rating	RC2	RC2 / RC3	RC2 / RC3	RC2
Fire Rating	_	_	_	El30

# **Frame Options**

TYPE	PROFILE	THICKNESS	WIDTH (CM)	HEIGHT (CM)	CUSTOMIZA- TION
Pressed (Stan- dard)	20×48mm	1.25mm	88-93-98-103	202-207-212	2–217 No
Hollow Beam	60×30mm	1.25mm	90-95-100-105	205-210-215	i–220 Yes
Reinforced	30×48mm	1.25mm	90-95-100-105	205-210-215	i-220 No

# **Need Help Selecting?**

If you need help choosing the right model for your application, please contact us at <u>metalasystem.gr</u>

# 4.8 Custom & Specialized Solutions

TAILORED DOOR SYSTEMS FOR UNIQUE REQUIREMENTS

# **Beyond Standard: Your Vision, Our Engineering**

With over 25 years of manufacturing expertise, Metal System transforms unique architectural requirements into precision-engineered reality. From double-leaf configurations to oversized entrances, we deliver custom solutions that meet your exact specifications.

Every project is unique. We offer complete flexibility in design, dimensions, and functionality while maintaining our commitment to security and quality.

# **Custom Configuration Options**



### **Double Armor Protection**

Enhanced multi-layer steel construction for extreme security applications.

- Additional steel layer
- Composite armor core
- Ballistic-grade option



### **Custom Dimensions**

Non-standard sizes and architectural requirements beyond standard range.

- Oversized entrances
- Double-leaf systems
- Architectural profiles



### **Enhanced Fire Ratings**

Extended fire resistance and certified configurations up to El120.

- EI30-EI120 rating
- Project-specific certifications
- Smoke control integration



### **Smart Integration**

Pre-wired systems for access control and building automation.

- Biometric readers
- Access control prep
- BMS integration

# **Finishes & Cladding Options**

A wide selection of powder coatings, MDF, laminate, or aluminum cladding options are available to match any architectural or design requirement.

# **Custom Order Process**

Our engineering team is ready to develop the perfect solution for your project — no challenge is too complex for our experienced craftsmen.

1

### Consultation

Free consultation to understand your needs and specifications.

2

### **Engineering**

Technical drawings, material selection, and cost estimates.

3

### Manufacturing

Precision fabrication with quality control at every stage.

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# Thank You for Choosing Metal System

SECURITY • CRAFTSMANSHIP • INNOVATION

For over four decades, Metal System has defined the standard in armored door design and manufacturing. Each product we create is built with precision, tested for performance, and trusted for a lifetime.

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