

## BRIEF INTRODUCTION

TOMA Group includes Shanghai TOMA Building Material Co.,Ltd and Hunan TOMA Energy Saving Technology Co.Ltd., which covers 100 acres. We have our own cast aluminum rod and mould production line, extruded aluminium profile production line, powder coating line, anodized line, foam slat production line.

We are professional manufacturer who is committing itself to manufacturing and selling good quality aluminum profile, aluminum windows and doors, roller shutters, roller screen, canopy, blinds, awnings, tubular motor, remote control, door operator, sectional garage door and more. Our products are with European design and American ingenuity.

Our products are widely used at home and abroad. Our tenet is to keep a long term business relationship with the customers on the base of high quality, competitive price and excellent service.

We've been providing quality controlled products and expanding through innovative research and development.

TOMA's qualified team of engineers and production technicians continuously strive to develop new and innovative concepts that improve quality and efficiency. Its goal is to enhance your home with a seamless appearance while they can protect the property of homeowners and business in all kinds of weather.

*Shutter, blind and automation adds value and protection to your home!*

Aluminium slat with poyurethane inside production line



Extruded aluminium profile production line



## MAIN PRODUCTS:



### Roller Shutter Series

Roller shutters can be manually operated by hand, chain, or the ever popular electrical operation roller shutter.



### Hurricane Shutter and roller balcony door Series

Most durable, most practical hurricane, tropical storm protection and theft!!!



### Roller Garage Door Series

Motorised with remote control or switch or manual is optional.



### Sectional Garage Door Series

The cover layer is galvanized steel plate with beautiful cast square grid and venation.



### Commercial Door Series

With style, beautiful appearance and elegant pattern, it creates rich commercial atmosphere together with door's accoutrement.



### Industrial Door Series

Industrial roller doors or industrial lift doors are optional.



### Industrial Faster Door Series

Industrial fast doors satisfy the customer who need the faster and safer doors for saving time and higher effective work.



### Aluminium Window and Door Series

Different types aluminium windows and doors are optional.



### Monoblock Window Series

Aluminium window, roller shutter and mosquito net(monoblock) all together in one, fashionable style with multifunction protection, sliding or casement window is optional.



### Door Operator Series

Used for sliding gate, swing gate, sectional garage door, industrial door and so on.



### Outside Motor Series

It is used for open and close the rolling door of industrial door, commercial door, supermarket door, storehouse, cinema, hotel and so on.



### Roller Shutter Profiles Series

You will find favourite roller shutters from TOMA for your building.



NOW

## TOMA PRODUCT TOMA ROLLER SHUTTER SERIES

### ROLLER SHUTTERS GENERAL SPECIFICATIONS

Slat option:	32mm,37mm,39mm,42mm,43mm,45mm,55mm
Rail option:	55mm,65mm
Motor option:	Tubular motor or outside motor
Main colours:	White

Other color could be made upon customer's request



All aluminium roller shutter profiles are made of 6063-T5 aluminium alloy with excellent powder coating or aluminium slat with polyurethane inside, or galvanized steel slat with polyurethane inside. Specified color could be custom made if above MOQ. It can provide protection, privacy and security, insulation to your home. They are controlled by remote control, switch, sensor or manual mode. Specified size aluminium roller shutter could be custom made. Roller shutters could be installed outside and operated manually or electrically from the inside. It is one kind of shutter with much function such as energy saving, theftproof, rainproof, noiseproof, sunproof, wind & sand proof, cold proof, peek proof, rustless, etc while they keep the whole house with elegant pattern and pretty appearance. It can enhance your home with a seamless appearance while they can protect the property of homeowners and businesses in all kinds of weather. Our system can actually pay for themselves with the money you will save over the course of a few years.

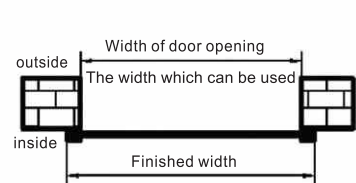
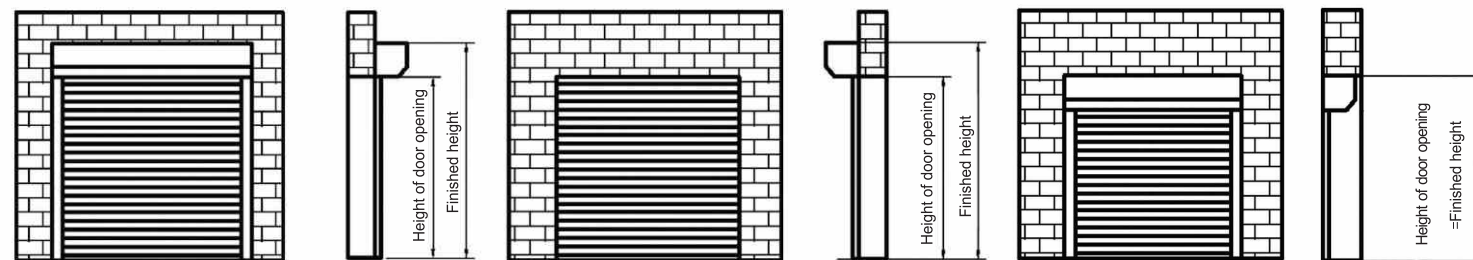
1. Aluminium is the ideal material for use in components that are daily exposed to the weather and that have to be light as well as extremely strong.

2. Furthermore, you will be able to save heating costs. Due to the air cushion between the roller shutter and window, the window's heat insulation is increased by up to 45% - enabling you to make primary fuel savings of up to 10%.

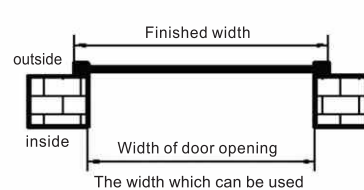
3. Aluminium is corrosion-resistant and the surfaces of our aluminium profiles are furthermore well powder coated, painted or anodized.

4. High security deterrent and effective protection against burglary. TOMA's qualified roller shutters offer effective protection against burglary. You can use this separate safety kit, which includes a reinforced end slat and Anti-Push-Up lock for additional protection of you home.

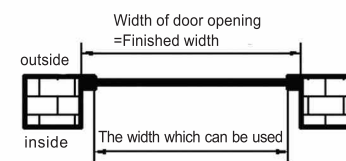
## Drawing and picture for different installation mode



Inside installation



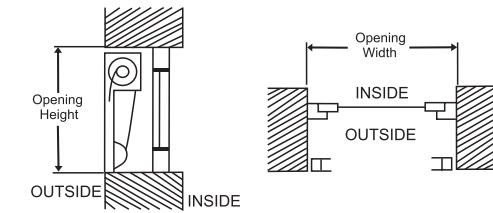
Outside installation



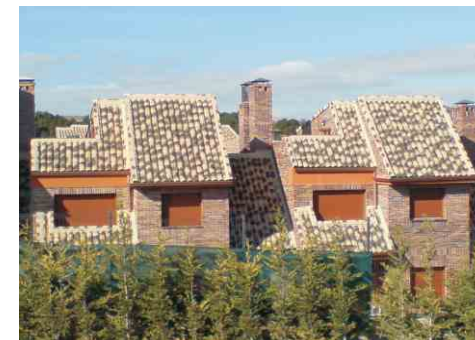
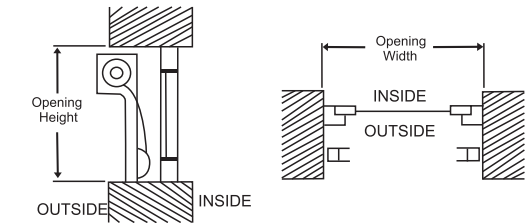
Middle installation



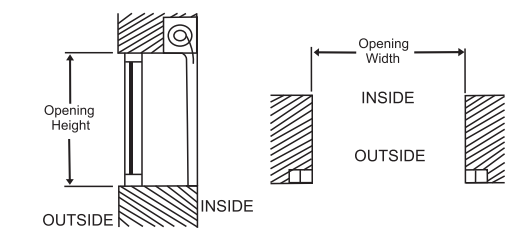
1. In opening width and height with internal rolling(normal)



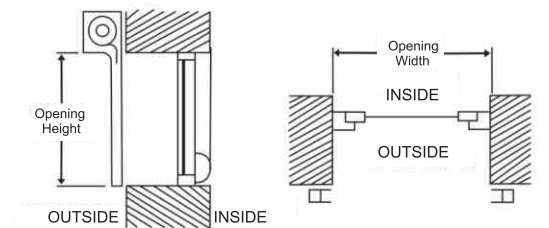
2. In opening width and height with external rolling(inversion)



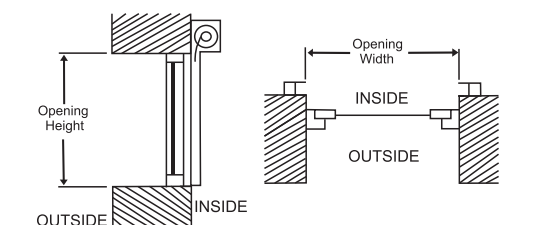
3. Concealed installation



4. Wall mount with external rolling (inversion)



5. Wall mount with internal rolling(inversion)





# TOMA PRODUCT - ROLLER SHUTTER SERIES

Roller shutters add value and protection to your home.



## Description

- Individualized and fashion style.
- Drive modes: remote control, switch or manual is optional.
- Many styles and colors are optional.
- Single control or group control is optional.
- Safety and comfort.
- Roller shutter combined with insect screen is optional.

### Screening from curious views.

Enjoy your privacy in your home. Roller shutters up/roller shutters down.

### Best protection against the weather.

During rain, snow, hail, wind. The aluminium roller shutters also protect very effectively against solar radiation. The rooms remain comfortably shadowy and cool. Furniture and floor coverings are protected against bleaching. Wooden windows are shielded in an optimal way.

### Saving of energy.

With a front-mounted roller shutter by TOMA

primary fuel consumption will be reduced in comparison to a roller shutter with a lintel box, because there is no area of heat loss between the roller shutter unit and the inside of the room. Between window and roller shutter curtain is formed a highly insulating cushion of air forms. The insulation value of a window with heat-insulating glass can be optimized by up to 20% with a front-mounted roller shutter.

### Roller shutters and mosquito screen all in one.

The insect screen that is integrated in the box is a reasonable addition to the roller shutter

function. You don't need any components that are mounted visibly to the outside. Everything is housed neatly in the box and the screen is guided in a second track of the guide channel behind the roller shutter profiles (at extra charge).

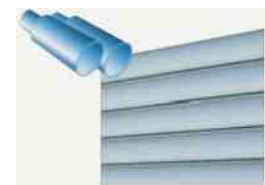
## TOMA Roller Shutter Advantage



Keeps out cold and heat



Increase burglary protection



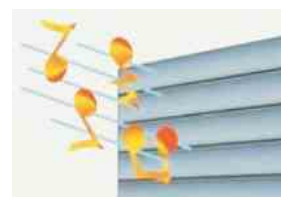
Screens interior from view



Keeps out sun



Keeps out weather



Keeps out bad noise



Keeps out insects (optional)



Solar / battery (optional)

■ For more design options, please contact our sales consultant.

We wanted to have something exceptional:  
The **design roller shutter system**

All of our home are very important place we live in, we feel comfortable there, everyone has his own favourite place and the family often gathers. The front-mounted design roller shutters with the brand name TOMA which were retrofitted to our house do not only look exclusively but they are as well real all-rounders at anytime of the day and night at every season.





## NOW TOMA PRODUCT TOMA HURRICANE SHUTTER AND ROLLER BALCONY DOOR SERIES

YOUR SAFETY IS OUR CONCERN...  
FEEL SECURE EVEN IN WORST WEATHER!  
ROLL-UP HURRICANE & SECURITY SHUTTER



Coastal dwellers know there is nothing like the beauty of the ocean, but we also know the constant threat of the awesome power of hurricane. Incredible winds, rain and flying debris combine to bring an extraordinary destructive force to your most valuable and cherished possession: your home or business.

### How can you prepare your home of business to stand against such overwhelming forces better?

TOMA roll-up hurricane&security shutter is proud to bring you such a solution that solves all these problems while providing additional benefits and unparalleled durability.

Hurricane hit this ocean front home with all it had and lingered over the home for hours! But inside the house, you'd never know there had been more than a thunderstorm outside if all the openings in the home are protected by roll-up hurricane&security shutters. But a quick look across the deck at a home with aluminum shutters reveals the damage a hurricane is capable of...

TOMA roll-up hurricane&security shutter slats are made of an impact resistant polymeric composite, which is what gives them their incredible durability and long life. However, their high tech material is not just tough, it is also beautiful. Surface of slats could be powder coating or painting in a wide variety of colors. It could last for many years without wearing out.

TOMA roll-up hurricane&security shutter offers other benefits beyond hurricane protection... benefits that you can enjoy 365 days a year. They can be used to protect your home or business from burglars at night or when you are away. Heat insulation, noise insulation, peek proof is another feature of TOMA roll-up shutters. Perforated slats in roll-up shutters make light into room even you close the shutter.

TOMA roll-up shutters are convenient, easy to use, attractive, and very tough. They could be controlled by wireless remote control, closing and opening them as easy as changing the channel on your TV.

TOMA roll-up hurricane&security shutter can reduce your insurance premiums by providing hurricane protection. These same features also mean that you can extend the usable living space in your home. An outdoor patio can become more like an extra room when you know that your belongings will be protected from weather and theft by using TOMA roll-up hurricane&security shutters.

Why wait for the next hurricane to ruin your home or business? Protect your investment with TOMA roll-up hurricane&security shutters. You will get peace of mind when hurricanes threaten, but you will also get the day to day convenience and comfort that TOMA shutters can provide.

Hurricane resistant...UV protection...home and business security! TOMA can realize in it!!!

### Warning!

Without shutters on your home, office, or camp, storm winds can create enormous pressure and rip your roof off, injuring people inside and destroying the building and its contents. Good shutters are insurance against expensive disaster.



HURRICANE ATTACK



HURRICANE SHUTTER



ACCORDION SHUTTER



ACCORDION SHUTTER



NOW

## TOMA PRODUCT TOMA ROLLER GARAGE DOOR SERIES

### GENERAL SPECIFICATIONS

Slat option:	55mm,60mm,77mm,100mm
Rail option:	65mm,80mm,100mm
Main colours:	White
Motor option:	Tubular motor Outside lift motor

Other color could be made upon customer's request

It is made from extruded aluminium slat with excellent powder coating, or aluminium slat or galvanized steel slat with polyurethane inside. Different sizes aluminium roller shutter could be custom made.

Electrically-operated, roller shutter garage doors create extra space inside your garage.

The quiet, vertical operation allows you to park your car up to the door. Press the button on the remote control, drive into your garage and at a second press of the button, the door closes and securely locks.

The slim line remote control unit allows you to open your garage door from the comfort and security of your car.

All doors are available in a choice of low maintenance, attractive colours. Every size of garage door opening can be accommodated - from single doors to oversize

double doors. In the event of power failure, inside manual handle allows you to open or close the garage door.

The specialist installs the doors that are easy to mount within a few hours. The maintenance for you is quite simple: Clean the door surface several times per year with clear water and then apply the special cleaner. So you will take much pleasure in your garage door for many years.

Some kinds of styles and colours are adjustable to users requirement.

Motorization is naturally a comfortable feature in the TOMA garage doors. An additional remote control for the garage doors is one of the most convenient things you can imagine.



We have decided in favour of garage doors by TOMA !



The garage door systems by TOMA are used for new buildings, but as well pre-eminently for renovation or retrofitting. For example, when you wish to have something really good for the future, after you have been operating with efforts your swinging garage door for years by hand.





## NOW TOMA PRODUCT SECTIONAL GARAGE DOOR SERIES

### GENERAL SPECIFICATIONS

Door panel thickness:	40mm
Anti break device:	Optional
Main colours:	White
Door operator and remote control:	Optional
Small window or door, cover sheet:	Optional



Door panel: High quality hot-dipped galvanized steel skin with maximum strength and durability.

With high density CFC-free polyurethane inside.

Patented design with finger protection makes garage door safer while you are using it.

Color: normal color is white, special color could be custom made if above MOQ.

Surface: textured interior sections standard.

Door operator with excellent quality makes less maintenance cost and enjoy wonderful life anytime without trouble with possible problem with quality.

Remote control is convenient for your use while you are driving.

Emergency lock and manual handle will make you open and close the door even in power failure.

Hardware accessories are galvanized. They include spring, hinge, bracket, roller, iron cables, assist rail, fastness, track, seal, tubular shaft and so on.

All the components are produced in strict control in quality will make sure less or no problem while you are using them.

Small windows and doors are optional for better light or more convenient in garage. They could be used for residential houses, garages, workshops, warehouses and commercial shops.



## NOW TOMA PRODUCT TOMA SHUTTER SERIES



ALUMINIUM LOUVER SHUTTERS



PLANTATION SHUTTERS



NOW

## TOMA PRODUCT TOMA COMMERCIAL DOOR SERIES

### COMMERCIAL DOOR GENERAL SPECIFICATIONS

Slat option:	55mm,60mm,77mm,100mm, transparent, roller grill
Rail option:	65mm,80mm,100mm
Motor option:	Tubular motor or outside motor
Main colours:	White

Other color could be made upon customer's request

With growing rate of vandalism and burglars, many business suffer a substantial. Commercial doors offer a more effective protection, balancing the demands of security and stylish appearance.

Each type of doors offers a high level of security for your premises.

Common modes for commercial door:

- 1.Manual mode(raising up and down the door by hand or using manual crank system).Spring loaded for easy for lifting. A security center lock is positioned on bottom rail.
- 2.Motorised: motorised with high security key switch or remote control.

Different styles and design commercial doors are used in different shops. Perforated vision commercial doors offer effective protection with stylish appearance.

A full range is available: galvanized steel slat with polyurethane inside, aluminium slat with polyurethane inside, extruded aluminium slat, polycarbonate slat, roller grill slats.





#### INDUSTRIAL ROLLER DOOR

Industrial roller doors can satisfy a number of applications ranging from small commercial shutters to large warehouse doors, with a number of colour finishes available.

Made with extruded aluminium slat, galvanized steel slat with polyurethane inside, or aluminium

slat with polyurethane inside. These doors are able to withstand rough and high frequency use, and adverse weather conditions.

For additional convenience and practicality, the doors are also available with power operation.

There are a variety of control options for power operated doors, including:

- Remote control
- Automatic timed return
- Warning lamps
- Pneumatic safety edge
- Traffic detection induction loop
- Radar



#### INDUSTRIAL FAST ROLL-UP DOOR

1. Scope of application: logistics corridor, indoor partition, outside diameter of 20 square meters in area within and outside the door, with insulation, dust, noise abatement, and the next flavor, high efficiency, the largest application of 7000mm\*7000mm.

2. Material for framework:  
general type: all the main steel structure used cold-rolled steel sheet (2.5mm thick paint cold-rolled steel sheet processing). (OPTIONAL)  
alloy type: Column aluminium profiles (surface antioxidant treatment). (OPTIONAL)  
stainless steel type: all the main use stainless steel structure. (OPTIONAL)

3. Draperies material: French-made high-density industrial Quibdo. The thickness: 0.8mm or 1.5mm. Colors: blue, yellow, white, orange, gray or wholly transparent so many colors to choose from.

4. Wind pressure Performance:  
1). door hangings equipped with a wind-aluminium alloy, the size of wind pressure by wind-election to the number of wind - The more wind pressure greater performance.  
2). the Japanese all-1.5mm thick transparent PVC film Perspective window, increase the safety and convenience of management.  
3). sub-aluminium alloy with enhanced wind resistance, also has draperies section features removable update.

5. Opened with the closing speed of: (0.8 - 1.5m/sec), high-frequency HF opened (800-1000) / day

#### INDUSTRIAL LIFT DOOR

The door panel is made of double layer hot-dipped galvanized steel plate with especial thickness to make sure intension of the door with large span.

Wireless remote control or button on control box can ensure the door is exactly in its position.

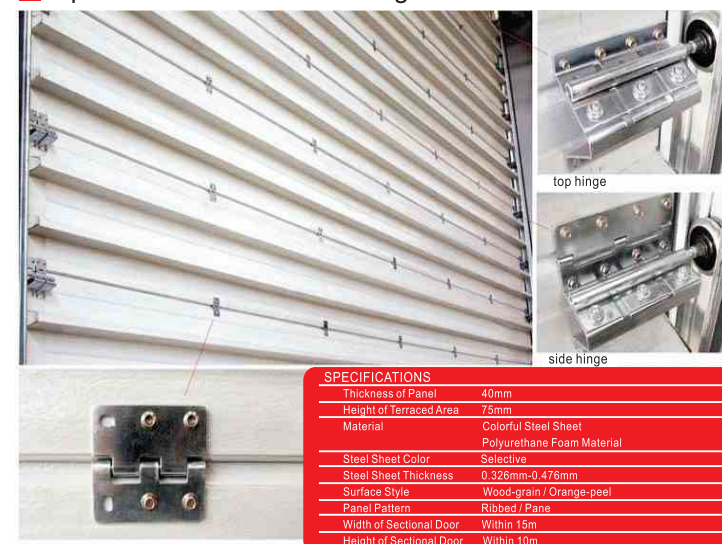
It will start-up automatically protection system, if the chain was broken by accident. Anti-drop brake device for steel rope and spring is used for industrial lift door in order to make sure door safer. Infrared monitoring will make the door stop automatically during its movement, if any objects are getting across.

The window can be designed on the door board to make sure sufficient light inside the room. Small door in door is optional.



#### HUGE INDUSTRIAL DOOR

##### Special Accessories for Huge Industrial Door



SPECIFICATIONS	
Thickness of Panel	40mm
Height of Terraced Area	75mm
Material	Colorful Steel Sheet
	Polyurethane Foam Material
Steel Sheet Color	Selective
Steel Sheet Thickness	0.326mm-0.476mm
Surface Style	Wood-grain / Orange-peel
Panel Pattern	Ribbed / Pane
Width of Sectional Door	Within 15m
Height of Sectional Door	Within 10m

##### Extra-wide Industrial Door Panel Model TMS75



Finger-protective TMS75 is a new type of extra wide and high strength industrial door panel. It is high strength and bending-resistant, the advanced technology and unique design makes this kind of panel the best choice of industrial buildings such as large factory, huge storehouses and exhibition hall etc.



## Industrial door series

### Industrial door

No matter small commercial doors, or large warehouses doors, plant doors can be used, a variety of colors can be selected;

### Features:

- Safe and reliable
- Good performance of wind resistance
- Thermal insulation and airtight

There are several ways controlling of motor driven:

- Remote control
- Auto-timer
- Switch
- Air bag
- Sensor for traffic detection
- Radar inspecton



▲ Soft fast roll-up door



▲ Industrial roller door



▲ Industrial lift door



▲ Aluminium fast roller door

## Bank anti-theft roller gate series



The bank burglar proof rolling gate is connected with a plurality of movable slat in series, in the fixed slipway, taking the upper reet as a center when it is rotating. It has the functions of anti drilling, anti prizing, anti pull, anti impact, anti technology opening, etc.





NOW

## TOMA PRODUCT TOMA ALUMINIUM WINDOW AND DOOR SERIES

TOMA have developed a range of window and door products that are innovative, functional and stylish.

TOMA aluminium windows and doors are an all TOMA designed and manufactured product, with modern designs and quality finish at the forefront of the TOMA philosophy.

An ongoing commitment to product development and service to ensure that no matter where you are, you have access to the latest designs in the window and Door industry.



### Brief introduction of aluminium window

- Type Option: Sliding, Casement, Fixed, Arch, Tilt & Turn, Awning, Folding, Louver, Circle and etc
- Color: As your request (Usually white color)
- Size: As your request
- Frame Material: China brand Aluminum profile with more than 1.4mm thickness for window and 2.0mm thickness for door
- Aluminum Option: Normal aluminum profile, Thermal-Break aluminum profile
- Glass Option: Clear glass, Laminated glass, Tinted glass, Low-E glass, Frosted glass, all tempered glass
- Single layer glass: 4mm, 5mm, 6mm, 8mm, 10mm, 12mm and etc
- Double layer glass: 5+9A+5mm, 5+12A+5mm, 6+12A+6mm and etc
- Triple glass: 6+9A+6+9A+6mm and etc
- Hardware: China famous brand or German TOP brand (ROTO, SIEGENIA)
- Opening Method: Inwards or Outwards, right or left hand opening as your request
- Mosquito Screen: Metal and Nylon material for option
- Roller shutter: Optional
- Surface Treatment: Powder coating, anodizing, electrophoresis coating
- Advantage: Excellent weather resistance / excellent heat insulation and energy saving / excellent water resistance  
excellent sound proofing / corrosion resistance / excellent fire proofing / attractive appearance / environmentally friendly / durable performance / easy to clean=low maintenance
- Lifetime: Above 50years
- Scope of Application: Apply to commercial houses, hotels, villas, office buildings, prefabricated houses and etc



### Sliding window

The TOMA aluminium sliding window is both functional and durable.

#### Standard features

- Keyed lock for added security
- Fully weather sealed around the complete frame perimeter

#### Options

- A range of glazing options
- Internal aluminium insect / fly screens
- Federation or Colonial glazing bars
- A variety of window style configurations



single layer glass



double layer glass



multi layer glass







### Casement window

This casement window for a new construction allows maximum ventilation and acoustic insulation without compromising on style. Easy to use and versatile, a casement window system is an excellent choice in any modern, tudor or Mediterranean revival style houses.

A replacement vinyl casement window is a tall, narrow window that opens by cranking a handle. Replacement vinyl casement windows can open out towards the left or right. Casement Windows swing open (like a door) to provide superior ventilation and are operated by a crank handle. Casements can open out left or right.



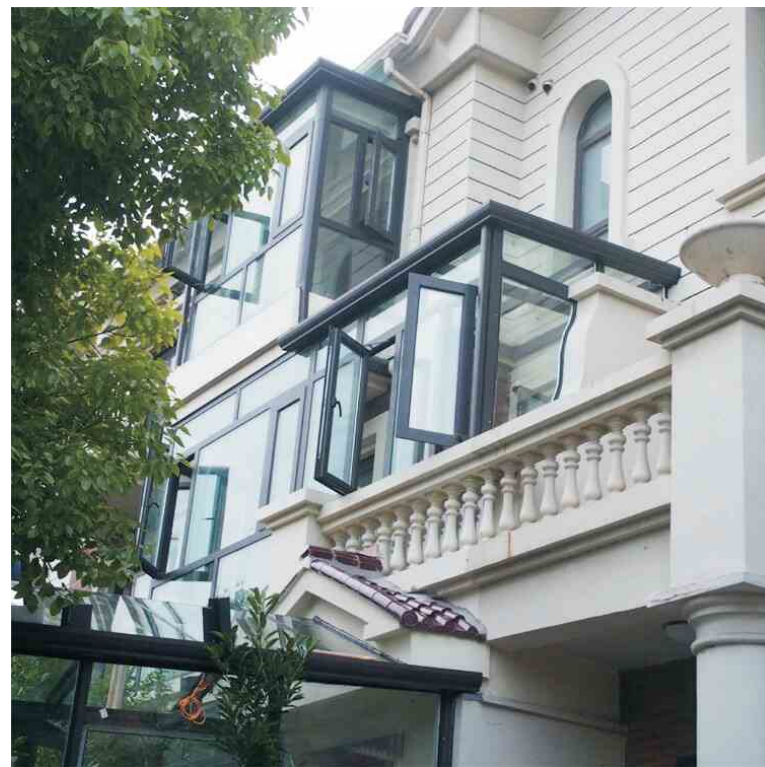
### Sliding door

Sliding door is made up of two (or more) sashes that slide horizontally, to the left or right, on tracks. The door can be made wider and taller with the addition of sashes.

According to the experienced architects and engineers, people will easily open the sliding doors when fire spreads inside the theater hall or in the offices. The conventional wooden doors will not be helpful to the fire victims at that time. The victims will comfortably push the glass sliding door panels for going outside.

If you are economical and you are interested to buy the cheap but durable sliding doors for the home decoration, TOMA will offer you good quality and workable sliding doors at the low prices. Your sliding doors must be flexible with solid frames. They must be resistant to water, fire and heat.

TOMA will evaluate your budget and give you our suggestion!



### Casement door

The casement door opens inwards or outwards with the help of a sash that is fixed on outer frame. The design can vary from fixed, side hung or top hung. TOMA offers different ranges, depending on size, wind load, insulation and design requirement.

When your priorities are high acoustic insulation, energy efficiency and practicality, nothing can beat a casement door. It's versatile in applications, inexpensive, reliable and performs exceptionally well providing comfort and a cozy atmosphere irrespec.







## Tilt and turn window

A tilt angle from the top or casement opening. Tilting is not only well ventilated but also saving space. The two opening modes can be completed by the same handle. Tilt and turn window has become a standard type of Europe and the United States whenever in the past or the future. The operation of the window is smooth, simple and safe. Multi-point locking mechanism can keep the window sash frame not easy to twist or bend. It will keep its original shape and color for many years. It is not like the traditional windows which are easy to deform and fade. Tilt and turn hardware can be a safe exit in an emergency when the window is fully opened.



## Other types



Fixed window

Louver

Tilt and turn window

Spring window

Folding door



## Mosquito screen series

Mosquito screen can be divided into folding screen and scrolling screen.

### Features:

- Attractive appearance, well-structured;
- Convenient to use and store;
- Wide anti-static function, non-stick ash;
- Good ventilation, good light transmission.
- Good transmission



Honeycomb blind and mosquito screen



Invisible retractable screen

Scrolling screen

Trackless invisible folding screen

Aluminium window with security screen and anti burglar bar  
 Made of high strength stainless steel wire by heavy precision weaving.  
 After treatment with matt on the surface, installed on the aluminium windows and doors.  
 It is organic and composite. It has high strength, concise and forceful, resisting shear, resisting impact and other high quality performance. Truly embodied the anti-theft, pest control, ventilation, beauty, safety and other advantages.



Casement window



Sliding window



Three tracks screen window



## Aluminium window with security screen and anti burglar bar

Casement window (thermal break)

85 series/108 series/130 series



Sliding window (thermal break)

100series/120series

Opening system:the clamping type with a lock seat and a transmission

Equipped with zinc alloy luxury handle

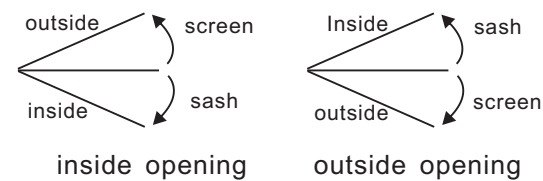
It can realize conventional push-pull and multiple opening modes



Using high strength, energy saving and environment protecting thermal break aluminium alloy profiles. Thickness 1.4mm. Extended operating life with 10 million times opening and closing The opening styles can be inside swing, outside swing, top awning, bottom awning and other styles. Using nylon insulation strip and multi-cavity profiles, sealing technology of three rubber strips It has better thermal insulation, sound insulation, drainage and other functions. The excellent opening structure greatly improve the water proof sealing performance of the whole window. The design of integrated security screen, achieved three functions: anti-theft, mosquito, ventilation.



### Monoblock window opening style



opening style  
follow your bent

### Casement window 70series/75series

Outside frame and inside sash combine sealant strip with sound insulation and can configure energy saving tempered glass. It can effectively reduce the acoustic resonance effect and it has very strong sound insulation the sound performance is greater than 35db.



Product colors prevail in real





## Your advantages

Heat Insulation+Soundproofing+Visual cover+Weather protection+Safety+Design+Multi functionality



#### Fuel economization

TOMA monoblock solution will save energy, in comparison to a lintel box since no thermal bridge occurs between shutter element and inner room.



#### Aluminium sliding window, roller shutter, mosquito net (monoblock solution)



#### Optimal heat protection with roller shutters closed

Between window and shutter curtain there will develop a strong insulating air cushion. The insulation of a heat-insulated window panel will increase by 20%.



#### Additional soundproofing through closed roller shutters

Aluminum panels are filled with sound-absorbing foam-material and lower the noise level extremely. This gives you a restful night of sleep and higher concentration and efficiency during the day.



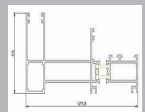
#### High soundproofing values

Optimal soundproofing, tested in many laboratory experiments. If the inside is plastered or equipped with additional insertions soundproofing values (Rw) of up to 42dB will be possible.

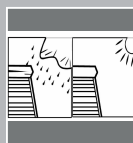


#### Protection of curious glimpses

Enjoy undisturbed protection in your house. By means of group control you can either open or close all roller shutters automatically or by pushing a button.



#### Aluminium casement window, roller shutter and mosquito net (monoblock solution)



#### Protection from good or bad weather

Rain, snow and hail as well as strong solar radiation will be kept away by roller shutter curtains made of aluminium slats. Enjoy a cool, shady room even at midsummer. By photo sensor all roller shutters will be closed or opened automatically.



#### The Approach sensors

The area in front of the window will be guarded by these sensors and will start up the shutters after 10 seconds should there be a person. Should this person not be discouraged and should not leave the area the roller shutter curtain will close completely.



#### Presence-Simulation with timer

The programmable timer opens and closes your roller shutters while you are away even at sporadic intervals and pretends an occupied home.



#### Security package as effective protection against burglars (optional)

TOMA does not make it easy for burglars. Shutter systems with aluminum roller shutter curtains are very safe. The TOMA-Security Package with reinforced bottom panel, concealed bolted guiding rails and the push-up protection are hard to break through. You will receive a proven system with the security package at a reasonable price.

Heat transfer coefficient:	K=2.0 low temperature grade 8
Wind resistance:	Class 3
Air tightness:	Class 5
Water tightness:	Class 4
Sound insulation :	Rw=40~44db
Mullion:	thickness of aluminium profile>1.4mm,overall thickness 130mm thickness of aluminium profile>1.4mm,overall thickness 55mm thickness of aluminium profile>1.4mm,overall thickness 65mm
Sash stuff:	Heat insulation bar nylonPA66, 25% fiber glass reinforced



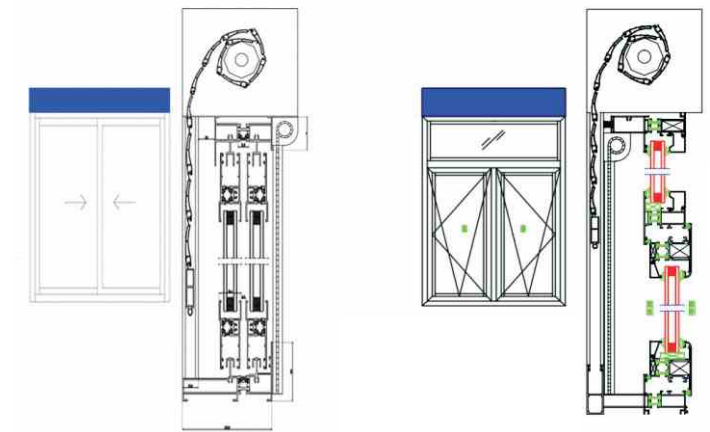
#### Wooden windows and floors need special protection

Climatic conditions can be detected at wooden windows and floors. Wooden windows have to be painted often at the weather side and have to be replaced after a few years. Parquet and laminate flooring will bleach near the window area within a few years and should be protected.

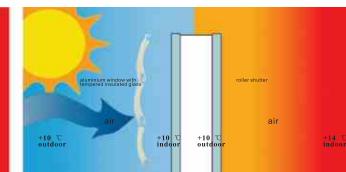
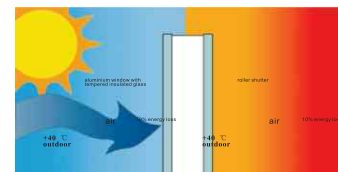


#### Mosquito proof

You will be free of mosquito etc and enjoy your life.



Sliding window (monoblock solution) Casement window (monoblock solution)







## TOMA ALUMINIUM WINDOW, ROLLER SHUTTER AND MOSQUITO NET (MONOBLOCK SOLUTION)

**Monoblock solutions avoid coordinating five work shops for job execution:**

1. Windows/Doors
2. Carpenter (shutter box & box cover)
3. Shutters and their accessories
4. Concrete and cement plastering
5. Painter

The lack of good coordination between these various works shops result in air infiltration, dust build up and noise arising from shutter box because of the incoherence, difficult to use and clean (requires removing shutter box), requires multiple workshops for maintenance work.

Monoblock solution can be installed in openings that are already supplied with shutter boxes and external concrete covers by making only minor modifications to the opening:

The shutter box is equipped with EPDM seals for additional air tightness, therefore does not allow dust to enter the shutter box. Because of this, cleaning is easier and hinges and groves can be maintained without the need to remove the cover of the shutter box.

A window with the height of 200 cm has a shutter circle diameter of 17 cm, providing easy curtain installation and operation. The shutter box has an elegant architectural design that does not protrude inside the room, therefore allowing easy curtain installation and operation.

The rolling shutter can be made from aluminium slats or PVC slats.

Shutter channel provided with weather seal pile on both sides.

Monoblock rolling shutters can be equipped with manual operators or an electrical motor for automatic operation.

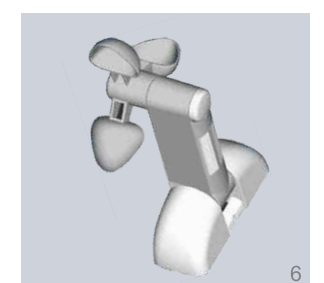


## Touch your finger, enjoy your life!

**Have you ever thought about additional comfort?**

FunRy is the most convenient radio control available at present. No control wire is needed. This means for you: Minimized installation and less damage of the walls whenever you renovate or upgrade. Group arrangements are alterable or extensible at any time! Control of roller shutters possible from almost anywhere in the house.

1. Manual crank system
2. Manual tape coiler system
3. Motorised with manual switch
4. Motorised with remote control
5. Motorised with remote control with timer
6. Motorised with remote control with sensor is optional



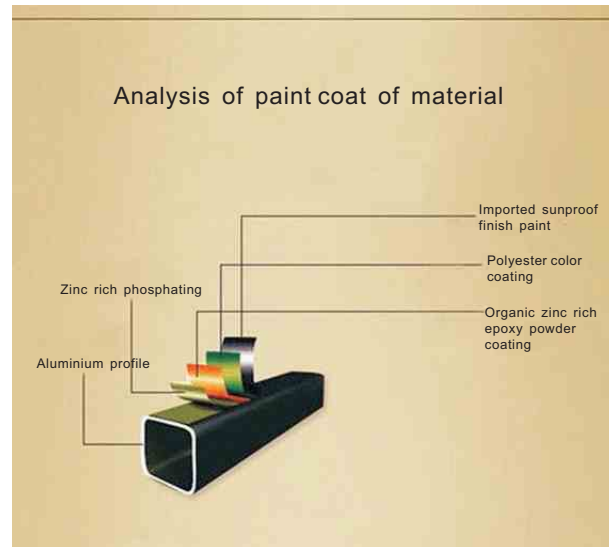
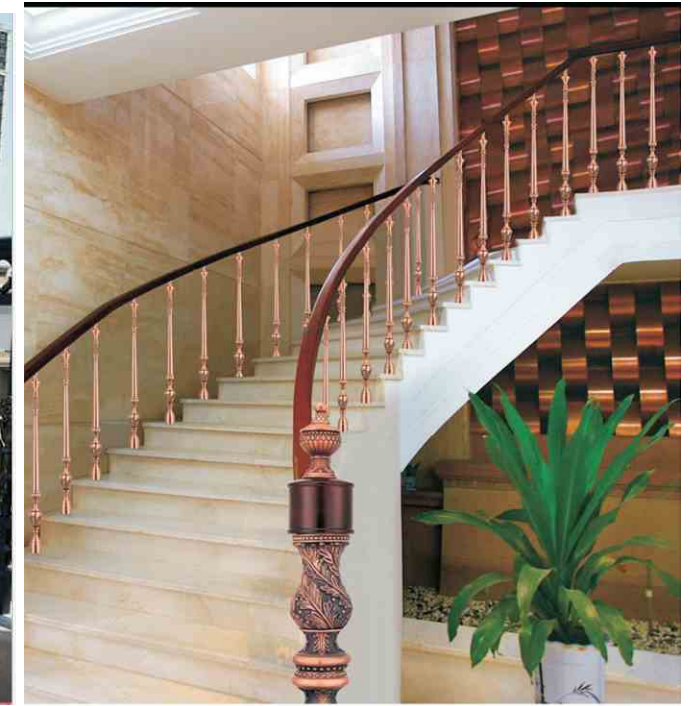


## Aluminium Guardrail series



### Features

- Environment-friendly, none-pollution
- Convenient management, avoid cleaning
- Bright colors
- Sturdy and durable

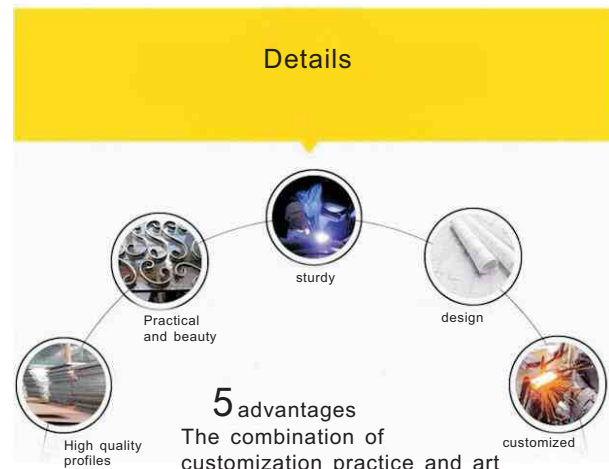


### Court yard gate series: Casement

- Open style can be single or double. It can meet different requirements of building.
- Motors can also be hidden under the ground. It will not affect the appearance of the gate.
- The motor is equipped with a power cut device. It can also be used during the power cut.

### Court yard gate series : Sliding

- Different styles and colors can be chosen according to the architectural styles.
- Peaceful door opening system can give you fun and unprecedented experience.
- Infrared shooting, alarm lamp and other profiles can be selected.



Aluminium guardrail use aluminium alloy as the basic material. It has the characteristics of high strength, high throughness, no rust and so on. After special surface treatment. It has excellent corrosion resistance moisture resistance impact resistance and long term surface self-cleaning ability.  
Scope of application:  
Villa, community, courtyard, factory, balcony and so on.





### Sliding gate opener features:

- This type of sliding gate opener is our new developed product Integrated Mechanical and electrical, ie, with PCB inside.
- Mechanical limit switch (spring limit switch) or magnetic limit switch is optional.
- Release key for power failure.
- Electronic soft-start, ensures the motor starts steadily and smoothly, easy to maintain and installation.
- Intelligent terminals for alarm lamp, photocell, external receiver, etc.
- Optional line control or remote control

TM-G7-370-220V  
TM-G7-450-220V  
TM-G7-370-380V

Magnetic limit switch, outer control box  
Motor power: AC220V±10%, AC380V±10%, 370W/450W  
Frequency: 50(60)Hz  
Motor rotational speed: 1400r/min  
Reduce ratio: 30:1  
Maximum gate weight: 1000-2000kg  
Gear box material: aluminum alloy  
Thermal protection at 125°C built in motor winding  
In case of power failure, the gate can be opened and closed manually after release clutch  
Protection class: Ip44  
Operating environment temperature -20°C~+50°C  
Installation Project

A: TM-G7  
B: Control box  
C: Limit magnet  
D: Gear rack  
E: Photo cell(Optional)  
F: Alarm lamp(Optional)

TM-G8-I

Magnetic limit switch, outer control box  
Motor power: AC220V±10%, 280W  
Frequency: 50(60)Hz  
Motor rotational speed: 1400r/min  
Maximum gate weight: 500-800kg  
Gear box material: aluminum alloy  
Thermal protection at 125°C built in motor winding  
In case of power failure, the gate can be opened and closed manually after release clutch  
Protection class: Ip44  
Operating environment temperature -20°C~+50°C  
Installation Project

A: TM-G8  
B: Controller  
C: Limit Stopper  
D: Rack  
E: Photocell(Optional)  
F: Alarm lamp(Optional)

TM-G10-I(AC)  
TM-G10-I(DC)

Mechanical limit switch  
Motor power: AC220V±10%, 280W or DC24V, 120W  
Frequency: 50(60)Hz  
Motor rotational speed: 1400r/min  
Maximum gate weight: 500kg-800kg  
Reduce ratio: 30:1  
Built-in control board  
Terminals for push button photocell, flash lamp  
Installation Project

A: TM-G10  
B: Limit stopper  
C: Rack  
D: Photocell(Optional)  
E: Alarm lamp(Optional)

TM-G10-II(AC)  
TM-G10-II(DC)

Magnetic limit switch

TM-G11-I(1000)  
TM-G11-I(1500)

Mechanical limit switch  
Motor power: AC220V/AC110V, 370W/450W  
Frequency: 50(60)Hz  
Motor rotational speed: 1400r/min  
Output rotational speed: 46.7r/min  
Maximum gate weight: 1000kg-1500kg  
Reduce ratio: 30:1  
Gear Box material: Aluminum alloy  
Installation Project

A: TM-G11  
B: Limit stopper  
C: Rack  
D: Photocell(Optional)  
E: Alarm lamp(Optional)

TM-G11-II(1000)  
TM-G11-II(1500)

Magnetic limit switch

TM-G18R  
TM-G19R  
TM-G20R  
TM-G22R  
TM-G23R  
TM-G24R

Mechanical limit switch

TM-G18R  
TM-G19R  
TM-G20R  
TM-G22R  
TM-G23R  
TM-G24R

Magnetic limit switch

Power Supply: AC 230V/120V, 370W(TM-G18/G19), 550W(TM-G20), 750W(TM-G22/G23), 900W(TM-G24)  
Output torque: 18N.m(TM-G18/G19), 21N.m(TM-G20), 35N.m(TM-G22), 38N.m(TM-G23), 45N.m(TM-G24)  
Maximum weight of Gate: 500KG(TM-G18), 700-800KG(TM-G19), 1000-1200KG(TM-G20), 1500-2000KG(TM-G22/G23), 2500-2800KG(TM-G24)  
Motor Speed: 1400r/min  
Gear Box material: Aluminum alloy  
Environment temperature: -35°C~+65°C  
More choices for automatic closing time at 0S/20S/40S/60S  
Limit switch: spring limit switch/magnetic limit switch, Noise: ≤56dB  
Control board: Rolling code. 433.92MHz  
Installation Project

A: TM-G18R  
B: Limit stopper  
C: Rack  
D: Photocell(Optional)  
E: Alarm lamp(Optional)

For more design options, please contact our sales consultant

### Swing gate opener features:

- This swing gate opener will stop acting when gate meet with obstacle.
- Release unit in case of power failure.
- Controlling single or double-leaf is optional.
- 24VDC back-up battery can be input.
- One control unit for two motors, control panel are available to photocells, loop detector, IC card reader & alarm lamp.
- Newly updated with much more easily and intelligent limit ways.

TM-G12

With limit stopper  
Power of motor: 24VDC, 80W\*2  
Current: 3.0A 2.5A  
Rotational speed: 1500RPM  
Rod's running speed: 1.6cm/s  
Rod's max travel: 330mm or 385mm  
Max single-leaf length: 3m  
Max single-leaf weight: 300kg  
Environment temperature: -20°C~+55°C,  
Protection class: Ip44  
In case of power failure, release the clutch easily, operate the gate manually.  
Stop acting when gate meets with obstacle.  
Control box:  
Power supply: 220VAC 50Hz/110V 60Hz,  
Transformer: 24V 150W  
Accessories max loaded: 24VDC 500mA,  
Max load: 2x80W/24VDC  
Environment temperature: -20°C~+55°C,  
Protection fuse: 10A  
Running time protection: Adjustable  
Auto closing delay time: Adjustable  
Controlling single or double-leaf  
Force: Adjustable is optional  
Protection class: Ip44  
24VDC back-up battery can be input

Installation Project

Unit: mm

TM-G12A  
TM-G12B  
TM-G12C  
TM-G12D

Power of motor: 24VDC, 40W\*2  
Current: 3.0A 2.5A  
Rotational speed: 3200RPM  
Rod's running speed: 1.6cm/s  
Rod's max travel: 330mm or 385mm  
Max single-leaf length: 3m  
Max single-leaf weight: 300kg  
Environment temperature: -20°C~+55°C  
Protection class: Ip54  
In case of power failure, release the clutch easily, operate the gate manually.  
Stop acting when gate meets with obstacle.  
Control box:  
Power supply: 220VAC 50Hz/110V 60Hz  
Transformer: 24V 150W  
Accessories max loaded: 24VDC 500mA  
Max load: 2x80W/24VDC  
Environment temperature: -20°C~+55°C  
Protection fuse: 10A  
Running time protection: Adjustable  
Auto closing delay time: Adjustable  
Controlling single or double-leaf  
Force: Adjustable is optional.  
Protection class: Ip54  
24VDC back-up battery can be input.

Installation Project

Unit: mm

TM-G13

Mechanical limit switch  
Supply voltage: 220VAC 50Hz/110V 60Hz  
Motor power: 50W\*2  
Current: 2.5A  
Rotation speed: 1400RPM  
Max single-leaf length: 3m  
Max single-leaf weight: 300kg  
Environment temperature: -20°C~+50°C  
Protection class: Ip55, mechanical limit switch  
Two control boards can communicate each other, 24VDC back-up battery can be input, Terminals for Push Button, Photocell, Flash lamp.  
In case of power failure, release the clutch easily, and operate the gate manually.  
Control box:  
Power supply: 220VAC 50Hz/110V 60Hz,  
Transformer: 24V 150W  
Accessories max loaded: 24VDC 500mA  
Max load: 2x80W/24VDC  
Environment temperature: -20°C~+55°C  
Protection fuse: 10A  
Auto closing delay time: Adjustable  
Controlling single or double-leaf is optional  
Protection class: Ip55  
24VDC back-up battery can be input.

Installation Project

Unit: mm

Installation Project

Unit: mm

Installation Project

Unit: mm

Installation Project

Unit: mm



NOW

## TOMA PRODUCT TOMA DOOR OPENER ACCESSORIES SERIES

Photocell			
 <p><b>TMPC1</b></p> <p>Photocell, 12-24VDC/AC, range: ≤15m</p>	 <p><b>TMPC2</b></p> <p>Photocell, 24-240V, Range: 10m-15m</p>	 <p><b>TMPC3</b></p> <p>Photocell, 12V-24VDC, Range: ≤6m</p>	 <p><b>TMLD</b></p> <p>Loop Detector, detect car passing</p>
Remote control			
 <p><b>TMT15</b></p> <p>Transmitter, rolling code, frequency: 433.92MHz</p>	 <p><b>TMT18C</b></p> <p>Transmitter, rolling code, frequency: 433.92MHz, with duplicator</p>	 <p><b>TMT19</b></p> <p>Transmitter, rolling code, frequency: 433.92MHz. Other code could be custom made.</p>	 <p><b>TMREC2</b></p> <p>External Receiver, it can match with 256 pcs transmitters, used for TM-G7, G8, G10, G11, G12, G13 gate openers</p>
 <p><b>TMREC19</b></p> <p>External Receiver, rolling code, voltage: 12V-24V DC, 433.92MHz, used for TM-G18, G19, G20, G22, G23, G24 gate openers</p>	 <p><b>TMCR</b></p> <p>Card reader, distance: 10m</p>	 <p><b>TMKP</b></p> <p>Key pad</p>	 <p><b>TMK0101</b></p> <p>Wireless key pad, rolling code, 433.92MHz, used for TM-G18, G19, G20, G22, G23, G24 sliding gate openers</p>
Accessories for door opener			
 <p><b>AL01</b></p> <p>Alarm lamp, 24V/110V/220V, with a FLASHING PCB or receiver inside is optional</p>	 <p><b>TMA</b></p> <p>Annunciator</p>	 <p><b>TMCB</b></p> <p>Control box, 220V 50Hz/110V 60Hz used for barrier, sliding gate opener and swing gate opener</p>	 <p><b>TMWS</b></p> <p>Wall switch button, single button, rolling code, 433.92MHz</p>
 <p><b>TMAWS</b></p> <p>Air wave switch, for barrier, industrial door opener, high speed rolling door opener</p>	 <p><b>TMEL</b></p> <p>Electronic lock, for swing gate opener</p>	 <p><b>TMNR</b></p> <p>Nylon Rack, for sliding gate, size: 1000*26*12(mm) Heavy nylon Rack, for sliding gate, size: 1000*26*20(mm)</p>	 <p><b>TMSR</b></p> <p>Steel Rack, for sliding gate, size: 1000*30*10(mm)</p>

NOW

## TOMA PRODUCT TOMA OUTSIDE MOTOR SERIES

It is used for open and close the rolling door of industrial door, commercial door, supermarket door, storehouse, cinema, and hotel and so on. It can be operated by electricity and manual. Precise limit by the limiter controlled automatically. Operate by manual when power off.

- The unwinding group of the motor is with overheat protect equipment. When the temperatures rise up to 110°C, it will cut off the power supply automatically to protect the motor. When the temperatures reduce to 70°C, it can be used again.

- Remote control is optional.

- It can be driven by electricity to operate the functions of moving up and down, precise limit by the limiter controlled automatically.

- Operated by manual while in power failure.

- Low noise, small shaking, low power exhaustion.



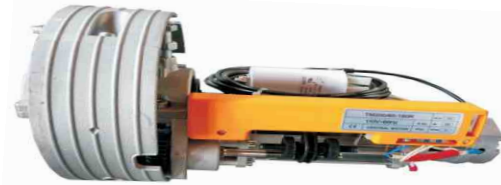
Item number	Rated voltage (V)	Maximum lifting weight (kg)	Set load lifting power (kg.f)	Set load output torque (N.m)	Set load output turn (Speed r/min)	Max lifting height (m)
TMOMDC400	24	400	130	225	3.5	5
TMOMDC600	24	600	270	412	3.8	6
TMOM300	220 or 380	300	250	168	4.8	6
TMOM500	220 or 380	500	370	343	4.8	6
TMOM600	220 or 380	600	370	412	4.8	6
TMOM800	220 or 380	800	460	647	4.6	9
TMOM1000	220 or 380	1000	460	809	4.1	9
TMOM1300	380	1300	600	1401	5.6	9
TMOM1500	380	1500	600	1671	5.6	9
TMOM2000	380	2000	750	2450	3.6	12

For more design options, please contact our sales consultant



NOW

## TOMA PEODUCT TOMA CENTRAL ROLLER SHUTTER MOTOR AND SECTIONAL GARAGE DOOR OPENER SERIES



Model	Torque (NM)	RPM	Cut Out Temperature (MIN)	Power (W)	Consumption (A)	Lifting weight (Kg)	Tube Rolling (mm)	Pulley (mm)
<b>230V / 50Hz</b>								
TM200/60-120H	120	10	4	460	2	120	60	200-220
TM200/60-150H	150	10	4	600	2.6	160	60	200-220
TM200/60-180H	180	10	4	750	3.26	200	60	200-220
TM240/76-420H	420	10	4	1000	4.36	360	76	240-260
TM200/60-120R with built-in receiver and 2 transmitters	120	10	4	460	2	120	60	200-220
TM200/60-150R with built-in receiver and 2 transmitters	150	10	4	600	2.6	160	60	200-220
TM200/60-180R with built-in receiver and 2 transmitters	180	10	4	750	3.26	200	60	200-220
<b>110V / 60Hz</b>								
TM200/60-120H	120	10	4	460	2	120	60	200-220
TM200/60-150H	150	10	4	600	2.6	160	60	200-220
TM200/60-180H	180	10	4	750	3.26	200	60	200-220
TM240/76-420H	420	10	4	1000	4.36	360	76	240-260
TM200/60-120R with built-in receiver and 2 transmitters	120	10	4	460	2	120	60	200-220
TM200/60-150R with built-in receiver and 2 transmitters	150	10	4	600	2.6	160	60	200-220
TM200/60-180R with built-in receiver and 2 transmitters	180	10	4	750	3.26	200	60	200-220



TM-G2(800N)

Mechanical limit switch  
Power supply:220VAC 50Hz/110V 60Hz;  
MotorVoltage:24VDC  
Lighting Bulb:10W/24V  
Operationspeed:12cm/s  
Radio Frequency:433.92MHz  
Motor output torque:8Nm  
Maxlift height:2.5m  
Max squaremeter:9m<sup>2</sup>  
Protection Class:IP20  
Consumption in Stand-by:≤10W  
Ambient Temperature:-30℃



TM-G3(1000N)  
TM-G3(1100N)

Mechanical limit switch  
Power supply:220VAC 50Hz/110V 60Hz  
MotorVoltage:24VDC  
Lighting Bulb:10W/24V  
Operationspeed:12cm/s  
Radio Frequency:433.92MHz  
Motor output torque:10NM/12NM  
Maxlift height:3.2M/3.5M  
Max squaremeter:12M<sup>2</sup>/15M<sup>2</sup>  
Protection Class:IP20  
Consumption in Stand-by:≤10W  
Ambient Temperature:-30℃



TM-G4(600N)

Electronic limit switch  
Power supply:220VAC 50Hz/110V 60Hz  
MotorVoltage:24VDC  
Lighting Bulb:10W/24V,25W/220VAC  
Operationspeed:12cm/s  
Radio Frequency:433.92MHz  
Motor output torque:6Nm  
Maxlift height:2m  
Max squaremeter:6m<sup>2</sup>  
Protection Class:IP20  
Consumption in Stand-by:≤10W  
Ambient Temperature:-30℃



TM-G5(800N)  
TM-G5B(1000N)

Electronic limit switch  
Power supply:220VAC 50Hz/110V 60Hz  
Motor voltage:24VDC  
Lighting bulb:10W/24V  
Operation speed:12cm/s  
Radio frequency:433.92MHz  
Motor output torque:7Nm/11Nm  
Max lift height:2.5m/3.2m  
Max squaremeter:9m<sup>2</sup>/12m<sup>2</sup>  
Protection class:ip20  
Consumption in stand-by:≤10w  
Ambient temperature:-30℃~+60℃



TM-G6(800N)  
TM-G6B(1000N)

Electronic limit switch  
Power supply:220VAC 50Hz/110V 60Hz  
MotorVoltage:24VDC  
Lighting Bulb:10W/24V  
Operationspeed:12cm/s  
Radio Frequency:433.92MHz  
Motor output torque:8Nm/11Nm  
Maxlift height:2.5m/3.2m  
Max squaremeter:9m<sup>2</sup>/12m<sup>2</sup>  
Protection Class:IP20  
Consumption in Stand-by:≤10W  
Ambient Temperature:-30℃



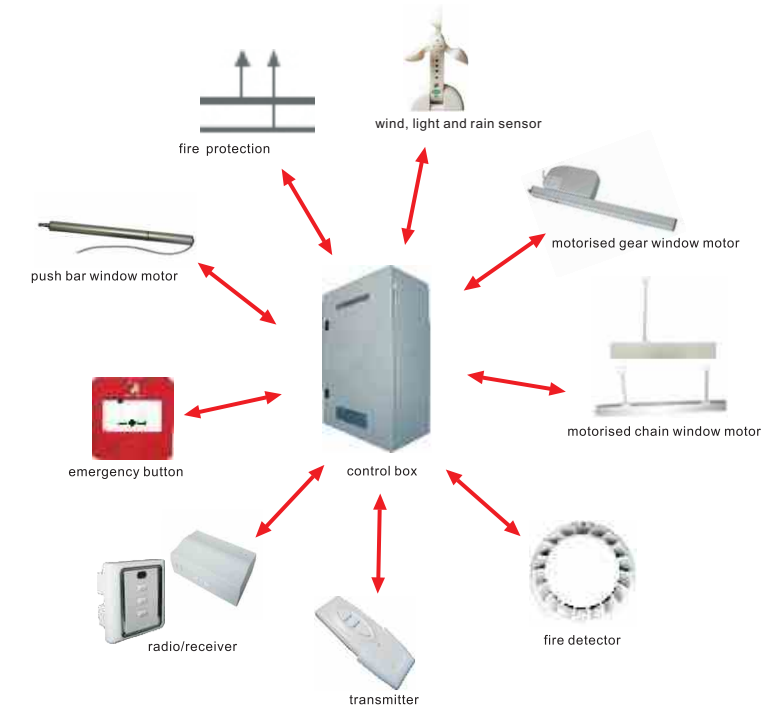
TM-G7A(800N)

Electronic limit switch  
Power supply:220VAC 50Hz/110V 60Hz  
MotorVoltage:24VDC  
Lighting Bulb:10W/24V  
Operationspeed:12cm/s  
Radio Frequency:433.92MHz  
Motor output torque:8Nm  
Maxlift height:2.5m  
Max squaremeter:9m<sup>2</sup>  
Protection Class:IP20  
Consumption in Stand-by:≤10W  
Ambient Temperature:-30℃

## ELECTRIC CHAIN WINDOW OPENER

CWO-300, CWO-500, CWO-700  
working voltage: DC24V-DC30V  
rated current: 1A/1.5A  
rated power: 24W/36W  
maximum push and pull force: 400N/600N  
speed: 5mm / s  
protection: Ip38  
travel range: 300mm/500mm/700mm  
working temperature: -10℃~+70℃  
lock force in still: 1500N

Electric single or double chain window opener, the chain is with electronic control heavy overload protection, device is made of high quality steel. Material of outer is good quality aluminum alloy. It is suitable for opening various heavy windows. It also has small size, and it is available for built-in and more quiet working or living environment. Different travel ranges are available.



## BLIND MOTOR

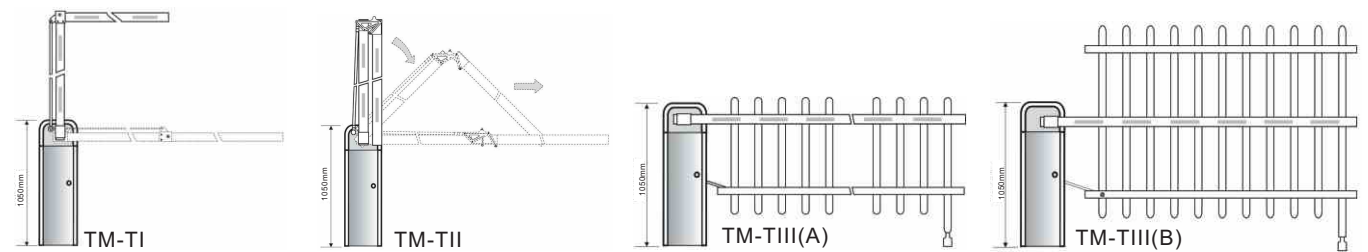
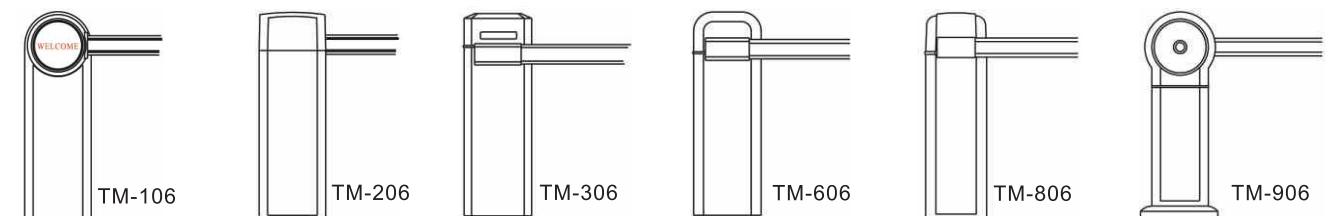
Appearance: symbol clarity, without rust eroded or mechanical damnification on surface of product  
shape dimension: accord with shape drawing request  
rating voltage: DC 12V, 24V  
runaway velocity: 8mm/s, travel: 50mm (optional)  
working life: ≥10000 times, noise: ≤58dB(A)  
using frequency: working 2min pause 18min  
max load: 500N, max electrical current: 3.0A  
compression resistance: 550VAC/5mA  
Insulation grades: B, protection grades: IP54  
Different torques and travel ranges are optional



## BARRIER

**AC series**  
Power supply: 220V 50Hz  
Motor's power: 90W/220VAC  
Motor's rotation: 2800r/min  
Running time: 3~6S  
Max Boom's length: 6M

**DC series**  
Power supply: 220V 50Hz  
Motor's power: 80W/24VDC  
Motor's rotation: 1400r/min  
Running time: 3~6S  
Max Boom's length: 6M

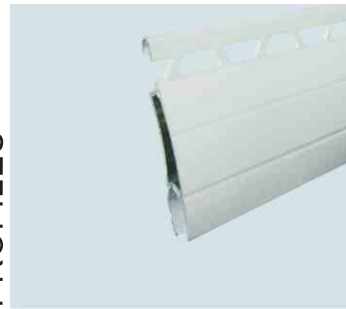




## YOU WILL FIND FAVOURITE ROLLER SHUTTERS FROM TOMA FOR

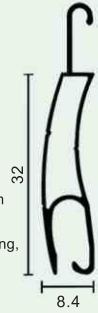
## YOUR BUILDING!

TOMA ROLLER SHUTTER PROFILES



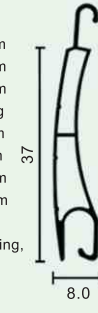
**32MM DOUBLE LAYER SLAT**  
ITEM NO: TMS32B

Technical data:  
Covering Surface: 32mm  
Slat Height: 32mm  
Nominal Thickness: 0.8mm  
Design Weight Per Sqm: 6.84kg  
Maximum Width: 2.5m  
Maximum Height: 5m  
Slat Per Sqm: 31.25m  
Minimum Roller Diameter: 60mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



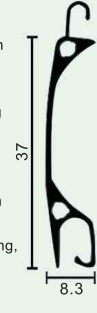
**37MM DOUBLE LAYER SLAT**  
ITEM NO: TMS37B

Technical data:  
Covering Surface: 37mm  
Slat Height: 37mm  
Nominal Thickness: 0.7mm  
Design Weight Per Sqm: 5.68kg  
Maximum Width: 2m  
Maximum Height: 5m  
Slat Per Sqm: 27.03m  
Minimum Roller Diameter: 60mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



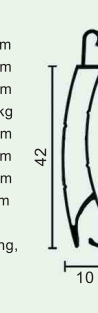
**37MM SINGLE LAYER SLAT**  
ITEM NO: TMS37D

Technical data:  
Covering Surface: 37mm  
Slat Height: 37mm  
Nominal Thickness: 1.2mm  
Design Weight Per Sqm: 6.84kg  
Maximum Width: 2m  
Maximum Height: 5m  
Slat Per Sqm: 27.03m  
Minimum Roller Diameter: 60mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



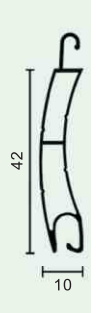
**42MM DOUBLE LAYER SLAT**  
ITEM NO: TMS42B

Technical data:  
Covering Surface: 42mm  
Slat Height: 42mm  
Nominal Thickness: 0.8mm  
Design Weight Per Sqm: 5.87kg  
Maximum Width: 2.7m  
Maximum Height: 5m  
Slat Per Sqm: 23.81m  
Minimum Roller Diameter: 60mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



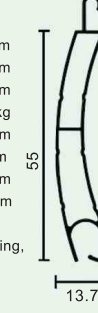
**42MM HURRICANE ROLLER SHUTTER SLAT**  
ITEM NO: HSS04B

Technical data:  
Covering Surface: 42mm  
Slat Height: 42mm  
Nominal Thickness: 1.2mm  
Design Weight Per Sqm: 8.64kg  
Maximum Width: 2.7m  
Maximum Height: 5m  
Slat Per Sqm: 23.81m  
Minimum Roller Diameter: 60mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



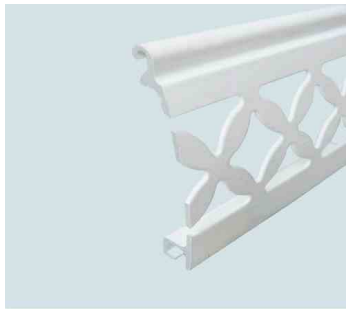
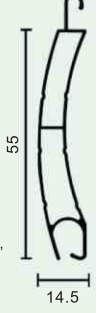
**55MM DOUBLE LAYER SLAT**  
ITEM NO: TMS55B-0.8

Technical data:  
Covering Surface: 55mm  
Slat Height: 55mm  
Nominal Thickness: 0.8mm  
Design Weight Per Sqm: 6.0kg  
Maximum Width: 3.5m  
Maximum Height: 5m  
Slat Per Sqm: 18.18m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



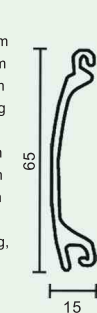
**55MM HURRICANE ROLLER SHUTTER SLAT**  
ITEM NO: HSS05B

Technical data:  
Covering Surface: 55mm  
Slat Height: 55mm  
Nominal Thickness: 1.4mm  
Design Weight Per Sqm: 11kg  
Maximum Width: 5m  
Maximum Height: 7m  
Slat Per Sqm: 18.18m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



**65MM SINGLE LAYER SLAT**  
ITEM NO: TMS65B

Technical data:  
Covering Surface: 65mm  
Slat Height: 65mm  
Nominal Thickness: 1.2mm  
Design Weight Per Sqm: 7.15kg  
Maximum Width: 4m  
Maximum Height: 5m  
Slat Per Sqm: 15.38m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request

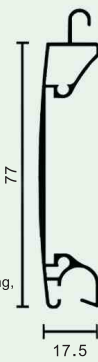


TOMA ROLLER SHUTTER PROFILES



**77MM SINGLE LAYER SLAT**  
ITEM NO: TMS77A

Technical data:  
Covering Surface: 77mm  
Slat Height: 77mm  
Nominal Thickness: 2.0mm  
Design Weight Per Sqm: 7.2kg  
Maximum Width: 5m  
Maximum Height: 6m  
Slat Per Sqm: 12.99m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



**77MM SINGLE LAYER SLAT**  
ITEM NO: TMS77B

Technical data:  
Covering Surface: 77mm  
Slat Height: 77mm  
Nominal Thickness: 2.0mm  
Design Weight Per Sqm: 7.2kg  
Maximum Width: 5m  
Maximum Height: 6m  
Slat Per Sqm: 12.99m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



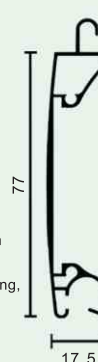
**77MM SINGLE LAYER SLAT**  
ITEM NO: TMS77C

Technical data:  
Covering Surface: 77mm  
Slat Height: 77mm  
Nominal Thickness: 2.0mm  
Design Weight Per Sqm: 7.2kg  
Maximum Width: 5m  
Maximum Height: 6m  
Slat Per Sqm: 12.99m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



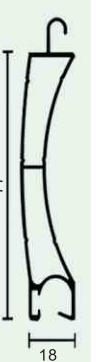
**77MM SINGLE LAYER SLAT**  
ITEM NO: TMS77J

Technical data:  
Covering Surface: 77mm  
Slat Height: 77mm  
Nominal Thickness: 2.0mm  
Design Weight Per Sqm: 7.2kg  
Maximum Width: 5m  
Maximum Height: 6m  
Slat Per Sqm: 12.99m  
Minimum Roller Diameter: 70mm  
Perforated Or Unperforated  
Surface treatment: powder coating, spray paint or as your request



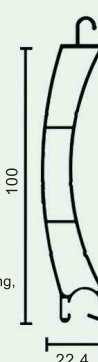
**77MM DOUBLE LAYER SLAT**  
ITEM NO: TMS77F

Technical data:  
Covering Surface: 77mm  
Slat Height: 77mm  
Nominal Thickness: 0.8mm  
Design Weight Per Sqm: 7.2kg  
Maximum Width: 5m  
Maximum Height: 6m  
Slat Per Sqm: 12.99m  
Minimum Roller Diameter: 70mm  
Unperforated  
Surface treatment: powder coating, spray paint or as your request



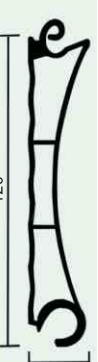
**100MM DOUBLE LAYER SLAT**  
ITEM NO: TMS100A

Technical data:  
Covering Surface: 100mm  
Slat Height: 100mm  
Nominal Thickness: 1.3mm  
Design Weight Per Sqm: 10kg  
Maximum Width: 6m  
Maximum Height: 7m  
Slat Per Sqm: 10m  
Minimum Roller Diameter: 90mm  
Unperforated  
Surface treatment: powder coating, spray paint or as your request



**120MM DOUBLE LAYER SLAT**  
ITEM NO: TMS120A

Technical data:  
Covering Surface: 120mm  
Slat Height: 120mm  
Nominal Thickness: 1.5mm  
Design Weight Per Sqm: 13.66kg  
Maximum Width: 7m  
Maximum Height: 8m  
Slat Per Sqm: 8.3m  
Minimum Roller Diameter: 209mm  
Unperforated  
Surface treatment: powder coating, spray paint or as your request

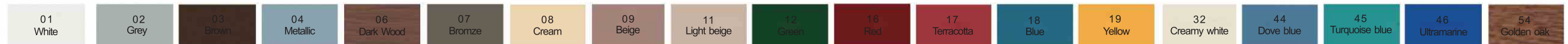


**120MM SINGLE LAYER SLAT (PERFORATION IS OPTIONAL)**  
ITEM NO: TMS120B

Technical data:  
Covering Surface: 120mm  
Slat Height: 120mm  
Nominal Thickness: 2.7mm  
Design Weight Per Sqm: 14.51kg  
Maximum Width: 7m  
Maximum Height: 8m  
Slat Per Sqm: 8.3m  
Minimum Roller Diameter: 209mm  
Unperforated  
Surface treatment: powder coating, spray paint or as your request



### Colours





## YOU WILL FIND FAVOURITE ROLLER SHUTTERS FROM TOMA FOR

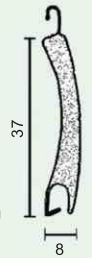
## YOUR BUILDING!

TOMA ALUMINUM FOAM SLAT



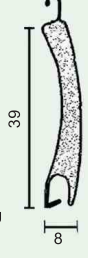
**37MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS37F

Technical data:  
 Covering Surface: 37mm  
 Slat Height: 37mm  
 Nominal Thickness: 0.3mm  
 Design Weight Per Sqm: 4.3kg  
 Maximum Width: 1.5m  
 Maximum Height: 4.0m  
 Slat Per Sqm: 27.03m  
 Minimum Roller Diameter: 60mm  
 Perforated or unperforated  
 Surface treatment: baking painting



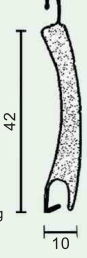
**39MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS39F

Technical data:  
 Covering Surface: 39mm  
 Slat Height: 39mm  
 Nominal Thickness: 0.3mm  
 Design Weight Per Sqm: 4.6kg  
 Maximum Width: 2.0m  
 Maximum Height: 4.0m  
 Slat Per Sqm: 25.64m  
 Minimum Roller Diameter: 60mm  
 Perforated or unperforated  
 Surface treatment: baking painting



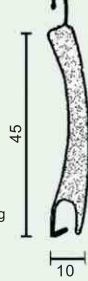
**42MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS42F

Technical data:  
 Covering Surface: 42mm  
 Slat Height: 42mm  
 Nominal Thickness: 0.3mm  
 Design Weight Per Sqm: 4.5kg  
 Maximum Width: 2.0m  
 Maximum Height: 4.0m  
 Slat Per Sqm: 23.81m  
 Minimum Roller Diameter: 60mm  
 Perforated or unperforated  
 Surface treatment: baking painting



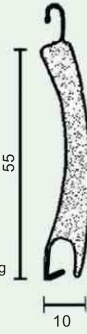
**45MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS45F

Technical data:  
 Covering Surface: 45mm  
 Slat Height: 45mm  
 Nominal Thickness: 0.3mm  
 Design Weight Per Sqm: 4.5kg  
 Maximum Width: 2.5m  
 Maximum Height: 4.0m  
 Slat Per Sqm: 22.22m  
 Minimum Roller Diameter: 60mm  
 Perforated or unperforated  
 Surface treatment: baking painting



**55MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS55D1

Technical data:  
 Covering Surface: 55mm  
 Slat Height: 55mm  
 Nominal Thickness: 0.3mm  
 Design Weight Per Sqm: 5.0kg  
 Maximum Width: 3.0m  
 Maximum Height: 4.0m  
 Slat Per Sqm: 18.18m  
 Minimum Roller Diameter: 70mm  
 Perforated or unperforated  
 Surface treatment: baking painting



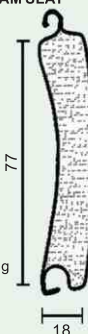
**77MM ALUMINUM FOAM SLAT**  
ITEM NO: TMS77G1

Technical data:  
 Covering Surface: 77mm  
 Slat Height: 77mm  
 Nominal Thickness: 0.46mm  
 Design Weight Per Sqm: 8.41kg  
 Maximum Width: 5.0m  
 Maximum Height: 5.0m  
 Slat Per Sqm: 12.99m  
 Minimum Roller Diameter: 70mm  
 Unperforated  
 Surface treatment: baking painting



**77MM GALVANIZED STEEL FOAM SLAT**  
ITEM NO: TMS77H

Technical data:  
 Covering Surface: 77mm  
 Slat Height: 77mm  
 Nominal Thickness: 0.35mm  
 Design Weight Per Sqm: 9.6kg  
 Maximum Width: 5.0m  
 Maximum Height: 5.0m  
 Slat Per Sqm: 12.99m  
 Minimum Roller Diameter: 70mm  
 Unperforated  
 Surface treatment: baking painting



**95MM GALVANIZED STEEL FOAM SLAT**  
ITEM NO: TMS95B

Technical data:  
 Covering Surface: 95mm  
 Slat Height: 95mm  
 Nominal Thickness: 0.45mm  
 Design Weight Per Sqm: 10.0kg  
 Maximum Width: 6.0m  
 Maximum Height: 7.0m  
 Slat Per Sqm: 10.53m  
 Minimum Roller Diameter: 70mm  
 Unperforated  
 Surface treatment: baking painting



TOMA GUIDE RAIL



**54MM GUIDE RAIL**

ITEM NO: TMGR54A

Technical data:  
 Guide Rail Covering Size: 54mm  
 Nominal Thickness: 1.2mm  
 Design Weight per meter: 0.715kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 32mm, 37mm, 42mm slat



**65MM GUIDE RAIL**

ITEM NO: TMGR65A

Technical data:  
 Guide Rail Covering Size: 65mm  
 Nominal Thickness: 1.6mm  
 Design Weight per meter: 0.872kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 55mm slat



**65MM GUIDE RAIL**

ITEM NO: HSGR65A

Technical data:  
 Guide Rail Covering Size: 65mm  
 Nominal Thickness: 2.0mm  
 Design Weight per meter: 1.09kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 42mm, 55mm hurricane roller shutter slat



**75MM GUIDE RAIL**

ITEM NO: TMGR75A

Technical data:  
 Guide Rail Covering Size: 75mm  
 Nominal Thickness: 1.6mm  
 Design Weight per meter: 1.45kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 55mm slat



**80MM GUIDE RAIL**

ITEM NO: TMGR80\*34 / 80\*29

Technical data:  
 Guide Rail Covering Size: 80mm  
 Nominal Thickness: 1.5mm  
 Design Weight per meter: 1.049kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 60mm, 77mm slat



**100MM GUIDE RAIL**

ITEM NO: TMGR100\*40 / 100\*34 / 100\*29

Technical data:  
 Guide Rail Covering Size: 100mm  
 Nominal Thickness: 2.0mm  
 Design Weight per meter: 1.38kg or 1.6kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 77mm, 100mm slat or 42mm, 55mm hurricane roller shutter slat



**100MM GUIDE RAIL (DOUBLE WALL)**

ITEM NO: TMS100\*50

Technical data:  
 Guide Rail Covering Size: 100mm  
 Nominal Thickness: 3.0mm  
 Design Weight per meter: 2.5kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for: 120mm slat



**88MM SLAT**

ITEM NO: TMS88A

Technical data:  
 Covering Size: 88mm  
 Nominal Thickness: 0.7mm  
 Design Weight per meter: 0.45kg or 0.9kg  
 Surface treatment: powder coating, spray paint or as your request  
 Used for making box or doors

### Colours





# TOMA

*Shutter, blind and automation adds value  
and protection to your home!*

WWW.TUOMAN.COM

INFO@TUOMAN.COM



# TOMA

SHUTTER, BLIND AND AUTOMATION MANUFACTURER