

**MCD**

**MCD**  
Le rideau aluminium  
des véhicules spéciaux  
# D-ONE-1999

CATALOG 2022

The **Aluminium**  
**Roller shutter**  
for specials vehicles





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**MCD**  
The Aluminium  
Roller shutter  
for specials vehicles

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## THE ALUMINIUM ROLLER SHUTTER FOR SPECIALS VEHICLES

Replacing very easily the conventionnal vehicles and lorries swing doors, the roll-up door first attracted firefighters to its zero obstruction level at opening for a better safety for user, simply access to the stuff and easy material handling.

Furthermore, the opening volume leads to a level of performance and accuracy in a compartment layout which is appropriate for such kind of emergency vehicles.

The aluminium roller shutter become nowadays a standard door opening system for fire and emergency vehicles and convinced vehicles manufacturers to adopt this safe and efficient solution for others kind of vehicles such as: Delivery, Mobile workshop, Electric vehicles, Road services, Recovery truck, Boat, Machine and much more!

It brings a safety for user with a door which roll inside the vehicle instead of opening outside on the way.



**33 years** OF EXPERIENCE  
**MCD SOLD ABROAD IN ABOUT 52 COUNTRIES**  
**FULL CUSTOMIZATION POSSIBLE**

### *Our company*

Located in the north-west part of France in modern installation of 3500m<sup>2</sup>, the company MCD is specialised since 1989 in the production of aluminium roller shutters for vehicles and specifics uses.

- Serial number on each shutter to identify original product manufactured and simplify after sales requirements
- Full customization possible: dimensions, closing systems, colours choice, additionnals equipments, ...
- Perfect balancing of the door for easy handling, effortless with one hand!
- Strict quality controls at each step of the production

MADE IN FRANCE



MORE THAN 30 YEARS OF *experience*

Associating the quality of craftsmanship and precision of industrial production, MCD exports throughout the world. Today, MCD's market fulfils more than 90% of national requirements, and is the most important supplier for fire protection vehicle in Europe. The products are sold in about 52 countries across Europe, Asia, Middle East, America and Oceania. MCD also has a production partnership in Poland and about 15 distributors worldwide.

ESTABLISHED *Internationally*

The success of this development and International conquest is based on fundamental principles of the company: Quality, Respect for specifications, Deep customization, Availability, Fast answers and the Openess with which we listen to our partners and customers.

Today, the leitmotif « *Research & Innovation* »

means that the company continues to develop, improve, innovate to propose new solutions with its skill to answer a market expectations more and more demanding.



PROTOTYPE benchmark



**MCD**  
Puy-Saint-Bonnet  
Closed by Cholet  
Maine et Loire (49)  
FRANCE

## International

MCD is established internationally through its distributors network, and also participates in all major international specialised trade fair

Find all our partners and exhibition location at [www.mcd-fr.com](http://www.mcd-fr.com)

# Benefits



We propose a full range of aluminium roll-up doors to answer each request following multiples specifications: dimensions of the door, space available in the bodywork for installation, quality level desired, weight of the shutter, Aesthetic appearance. Everything can be personalised!



## TECHNICAL SPECS

*The details that makes the difference.*



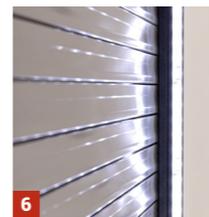
Find our complete products range at [www.mcd-fr.com](http://www.mcd-fr.com)

1. Double-walled extruded slats of 30 or 40mm made of the highest aluminium quality
2. Extruded inner slat seal between each slat to avoid metal to metal contact and increase longer lifespan
3. Over-molded bi-material guiding wheel (better grip, smooth and noise reduction)
4. IZY version are preassembled for simple and fast installation
5. Progressive rolling of the shutter for smooth operation
6. Water and dust proof insured by 4 different seals
7. Perfect balancing of the door for effortless opening with 1 hand only!
8. Standard or overlapping side tracks choice delivered already drilled and machined to save time at installation
9. Powdercoated finish following RAL colours choice or anodised
10. Closing system developed by automotive designer
11. Locking thanks to a stainless steel rod integrated in the bottom slat profile. Only 1 lock per shutter, faster operation for emergency vehicles
12. Personalised your handles and straps with your company logo
13. Traceability (serial number)

# Options



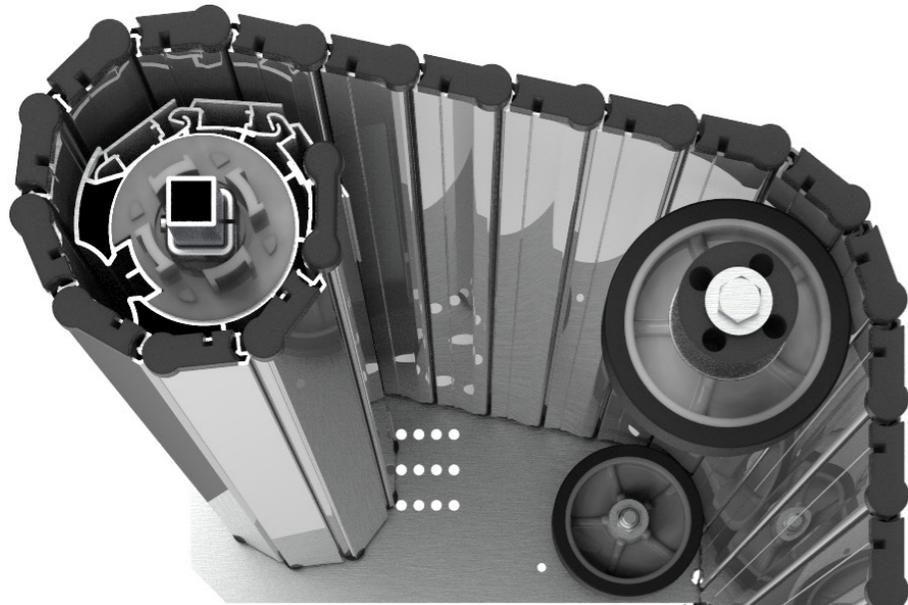
PERSONALIZE as you like...



1. Bending of the tracks made by MCD following your plan to follow vehicle shape
2. Sill plate and drip channel profiles for a better management of water discharges
3. Rubber pull strap without obstruction in the opening
4. Shutter interior unlocking
5. Sensors for automatic detection of door position
6. Efficient LED lighting fully integrated to the shutter
7. Outside area LED lighting integrated in the drip channel profile
8. Electric locking system of the shutters

DISCOVER PAGE 52 to 69





## THE + MCD



## MCD

The **Aluminium Roller shutter**  
for specials vehicles

## Advantages



**EASY VERSION (PREASSEMBLED) FOR AN EASY AND FAST INSTALLATION SIMPLE INTEGRATION IN THE BODYWORK**  
(front roll, top slide with balancer, top slide without balancer shutters systems)

**DESIGN MADE BY AUTOMOTIVE DESIGNER**

*Products built to last*

GUARANTEE

**2 years**



**SHORT MANUFACTURING TIME**  
(10 days for customised shutters and 24H for spare parts)

**SHIPMENT OF THE PRODUCTS HANDLED BY MCD**  
till the location of your choice



Find all our ALUMINIUM ROLLER SHUTTERS solutions at [www.mcd-fr.com](http://www.mcd-fr.com)



**LES SMOOTHEST OPERATION SHUTTERS AVAILABLE ON THE MARKET**  
thanks to a perfect spring balancement

*Products technically well thought out*

**PRESSURE RESISTANT**  
(very low deformation)



**LARGE CHOICE OF OPTIONS TO EQUIP THE SHUTTERS & MANY KIND OF CLOSING SYSTEMS AVAILABLE**

**VERY LONG LIFETIME THANKS TO QUALITY COMPONENTS FOR A SLOW WEAR OF THE PARTS**  
Quality is a key value in MCD, at each stage of production, nothing is left to chance

*Serenity is yours, our products are guaranteed for 2 years*

**SHORT MANUFACTURING TIME**  
(10 days for customised shutters and 24H for spare parts)

**SHIPMENT OF THE PRODUCTS HANDLED BY MCD**  
till the location of your choice

*More than 30 years of experience*

**IN THE PRODUCTION OF ALUMINIUM ROLLER SHUTTERS FOR VEHICLES**

# A professional team to serve you



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**MCD**



**MCD** expertise  
About 30  
collaborators  
To build  
your projects



# The SHUTTERS systems

TO OPTIMISE THE AVAILABLE SPACE

Our shutters are made to measure with double-walled extruded aluminium slats of 30 or 40mm height.

The doors can be used to close compartments or as loading, access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside

## Customisation of the shutter

All our doors are fully customizable:

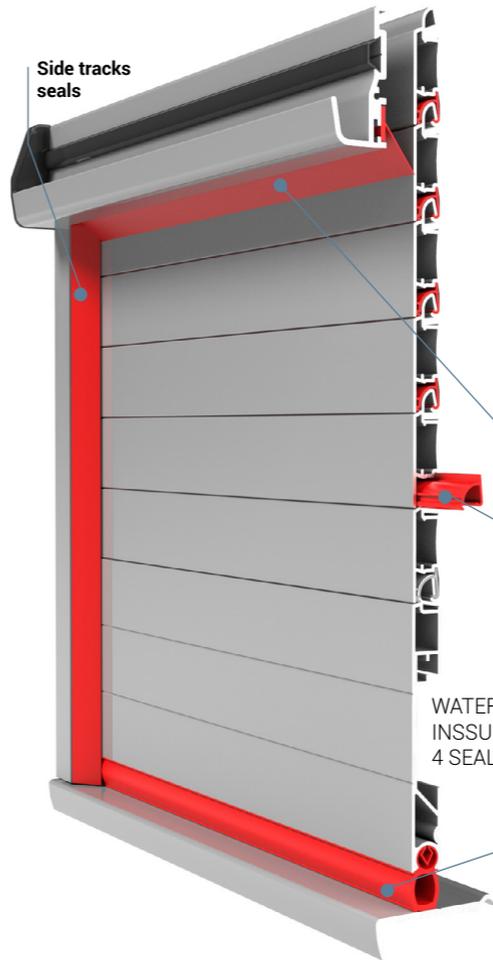
- Shutters models,
- Shutter slats height (30 or 40mm),
- Colour finish of the elements,
- Closing system choice,
- Side tracks models,
- Options (bended side tracks, pull strap, interior unlocking, sensors, LED lighting, electric locking systems).

Top seal to scrape shutter surface

Inner slat seal

WATER AND DUST PROOF INSSURED BY 4 SEALS

Bottom seal



# 1.0 SHUTTERS

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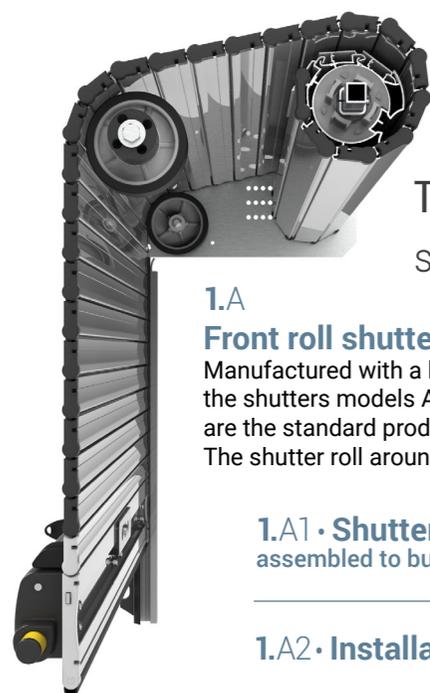


*I choose my shutter model*



## 1. CHOICE OF SHUTTER SYSTEM

You have to determinate which shutter system is the most suitable for your construction according to the space available in the bodywork for its installation:



THE FRONT ROLL shutter systems

1.A

### Front roll shutters

Manufactured with a balancer / spring assistance for smooth handling of the product, the shutters models Alu30 & Alu40 front roll models are the standard products of the manufacturer, historical and main model of the company. The shutter roll around a balancer at opening of the door (maximum surface area of 4m<sup>2</sup>).

1.A1 • Shutter slats height assembled to build the door of 30 or 40 mm



1.A2 • Installation principle

- « STANDARD » installation : shutter delivered in spare parts ready to assemble (assembled shutter, side tracks already drilled and machined, balancer, side panels, packet of accessories)
- « IZY » installation : shutter delivered premounted to save time at installation (assembled shutter already installed on its side panels, side tracks already drilled and machined, packet of accessories)



### 1.B Top slide shutter system equipped with balancer (with spring)

The shutter system Alu30 top slide doesn't roll around the balancer but is deployed in a flat way into horizontal side tracks under the roof + back of the compartment if the depth is smaller than the shutter height.

The shutter is linked to the balancer (equipped with a spring) thanks to cables to assist user at opening for smooth handling (maximum surface area 2m<sup>2</sup>).



### THE TOP SLIDE shutter systems



### 1.C Top slide shutter system without balancer (no spring assistance)

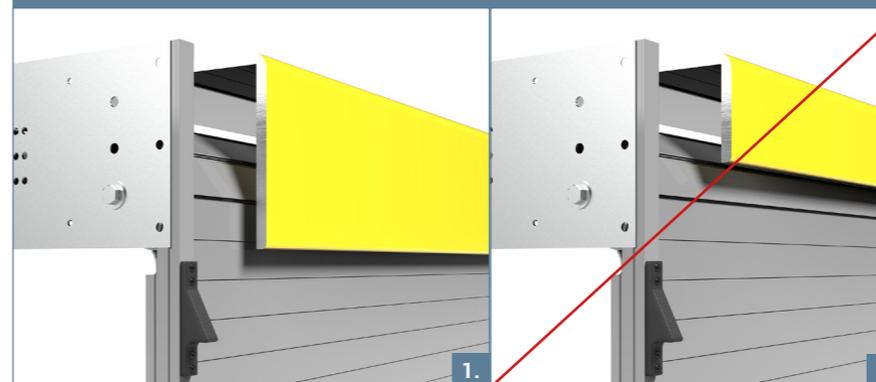
The shutter system Alucoffre doesn't roll around a balancer but is deployed in a flat way into horizontal side tracks under the roof + back of the compartment if the depth is smaller than the shutter height.

This shutter model is adapted only for small dimensions which doesn't require spring assistance at opening because of their light weight. (maximum surface area 0.5m<sup>2</sup>).

## IMPORTANT

As difference from classical swing doors, a shutter required a top header panel in order to hide the rolling mechanism. The necessary header dimension is determined following the shutter opening height, so the space required inside the compartment to roll the product following shutter model choice. *Photo 1.*

Also, the articulation of the shutter's slats in the top part shouldn't be visible from the outside of the vehicle. (the shutter should stay straight all along the opening). *Photo 2.*



Detailed technical datas of each product available on our website [www.mcd-fr.com](http://www.mcd-fr.com)

*I customise my shutter*

## 2. COLOUR FINISH OF THE COMPONENTS



The standard colour finish is a powder coated epoxy paint in grey RAL 7035 or white RAL 9010. We also propose several usual RAL colour finish kept in stock or any others RAL colour following special request and quantities.

Our shutters are also available in anodised finish.



## 3. CLOSING SYSTEMS

The closing of the shutter is done by different possibilities of handle with or without key.

It's possible to supply the same key number for different shutters on a same order if many doors equip the same vehicle.

Built-in HANDLE

Double HANDLE

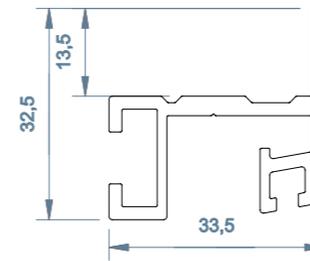
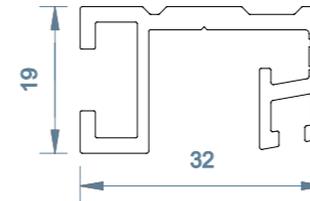
Bar lift HANDLE

Profile HANDLE



## 4. SIDE TRACKS MODELS

We propose 2 kind of side tracks following the bodywork possibilities :

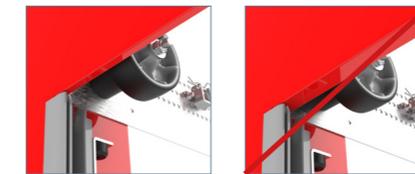


### Standard side tracks

The standard track can be installed in any bodywork configuration. It's a simple «U» shape in which the shutter glide.

### Overlapping side tracks

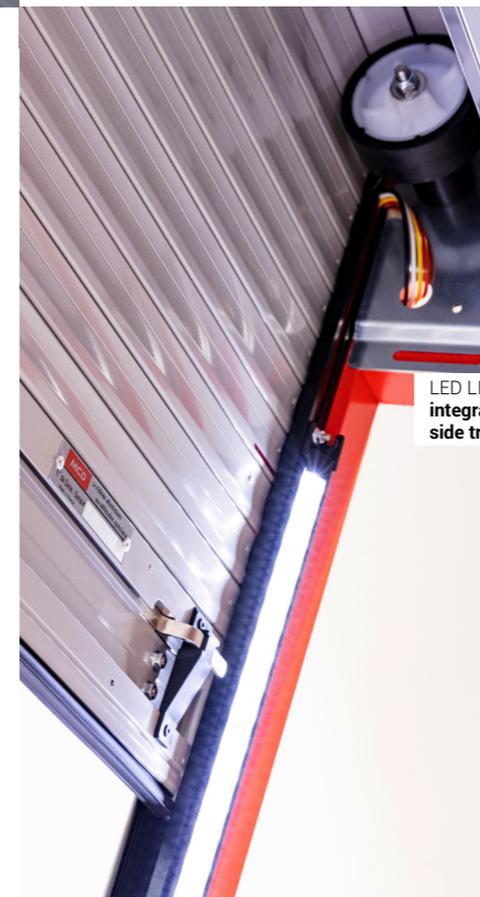
The overlapping side track required a specific construction : As the track overlap the vehicle bodywork, then it's necessary to have a header thickness < 9mm to let free the shutter way to go out of its tracks (see details below).



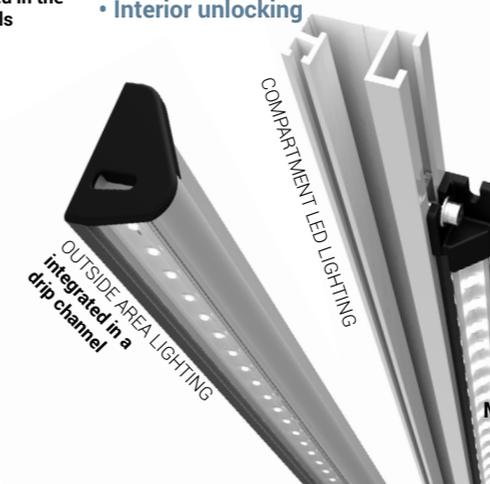
## 5. OPTIONAL EQUIPMENTS

Many additional options are available on demand to answer each requirement :

- Bended tracks following your drawing
- Pull strap to catch the shutter handle when installed too high
- Sill plate and drip channel for a better handling of water rejects
- Sensors for automatic compartment lighting when opening the shutter
- LED Compartment lighting integrated in the side tracks or in a special drip channel profile
- Electric locking system
- Interior unlocking



LED LIGHT integrated in the side tracks



OUTSIDE AREA LIGHTING integrated in a drip channel

COMPARTMENT LED LIGHTING

ADDITIONAL PROFILE of drip channel

BENDING of the tracks following your drawing

SHUTTERS 1.0

# Alu30 front roll system 1.1

**MCD**



Detailed technical datas of each product available on our website

[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALU 30  
front roll



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALU 30  
front roll



## Alu30 front roll 1.1

The Alu30 front roll shutter is made to measure with double-walled extruded slats of 30mm height.

The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

It's delivered in different parts ready to install:

- 1 assembled shutter
- 1 pair of side tracks already drilled
- 1 balancer
- 1 packet of accessories



### Maximum / Minimum product dimensions

Maximum Height	2200 mm
Maximum Width	2500 mm
Minimum Width	355 mm
Maximum surface area	4 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	12 Kg

SHUTTERS 1.0

# Alu40 front roll system 1.2



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Detailed technical datas of each product available on our website  
[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALU 40  
front roll



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALU 40  
front roll



## Alu40 front roll 1.2

The Alu40 front roll shutter is made to measure with double-walled extruded slats of 40mm height.

The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

It's delivered in different parts ready to install:

- 1 assembled shutter
- 1 pair of side tracks already drilled
- 1 balancer
- 1 packet of accessories



### Maximum / Minimum product dimensions

Maximum Height	2200 mm
Maximum Width	2500 mm
Minimum Width	450 mm
Maximum surface area	4 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	11 Kg

SHUTTERS 1.0

# Alu30 IZY 1.3

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Detailed technical datas of each product available on our website  
[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALU 30 IZY



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALU 30 IZY



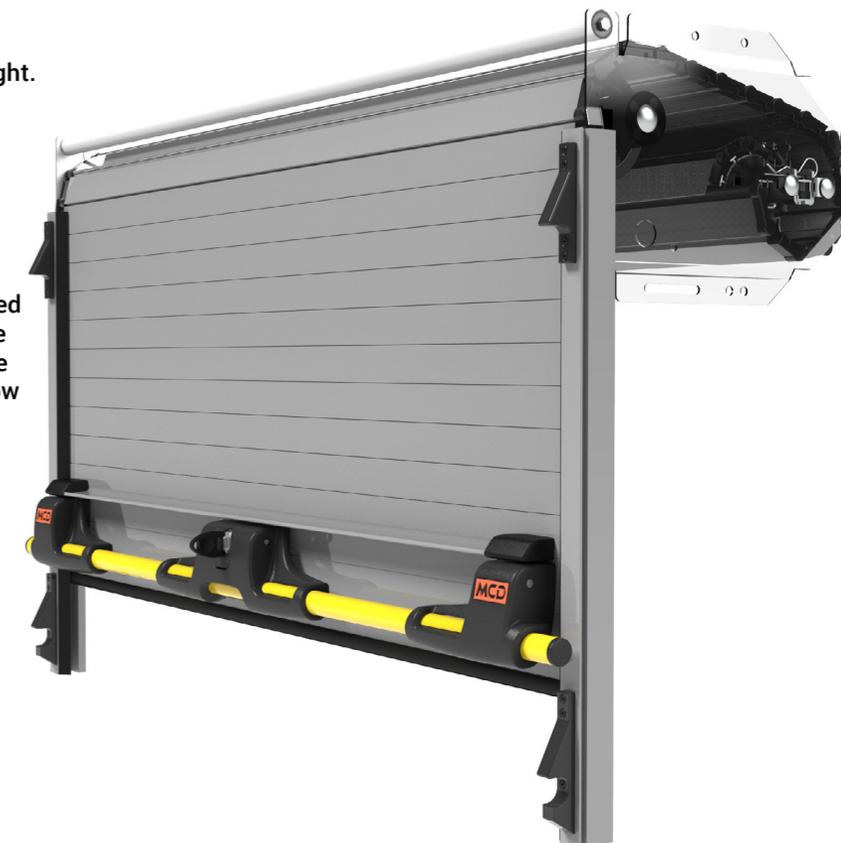
## Alu30 IZY 1.3

The Alu30 IZY shutter is made to measure with double-walled extruded slats of 30mm height.

The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

As difference from the Alu30 front roll standard system, the IZY version is delivered preassembled in the shape of a cassette bloc on which the side tracks are connected in order to install the whole shutter directly in the opening (see drawing below and installation instructions for more details).

This system provide a lot of installation time saving by reducing the montage to about 20 minutes only.



It's delivered in different parts ready to install:

- 1 cassette bloc ready to install
- 1 pair of side tracks
- 1 packet of accessories



### Maximum / Minimum product dimensions

Maximum Height	2200 mm
Maximum Width	2500 mm
Minimum Width	355 mm
Maximum surface area	4 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	12 Kg

SHUTTERS 1.0

# Alu40 IZY 1.4



**MCD**



Detailed technical datas of each product available on our website  
[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALU 40 IZY



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALU 40 IZY



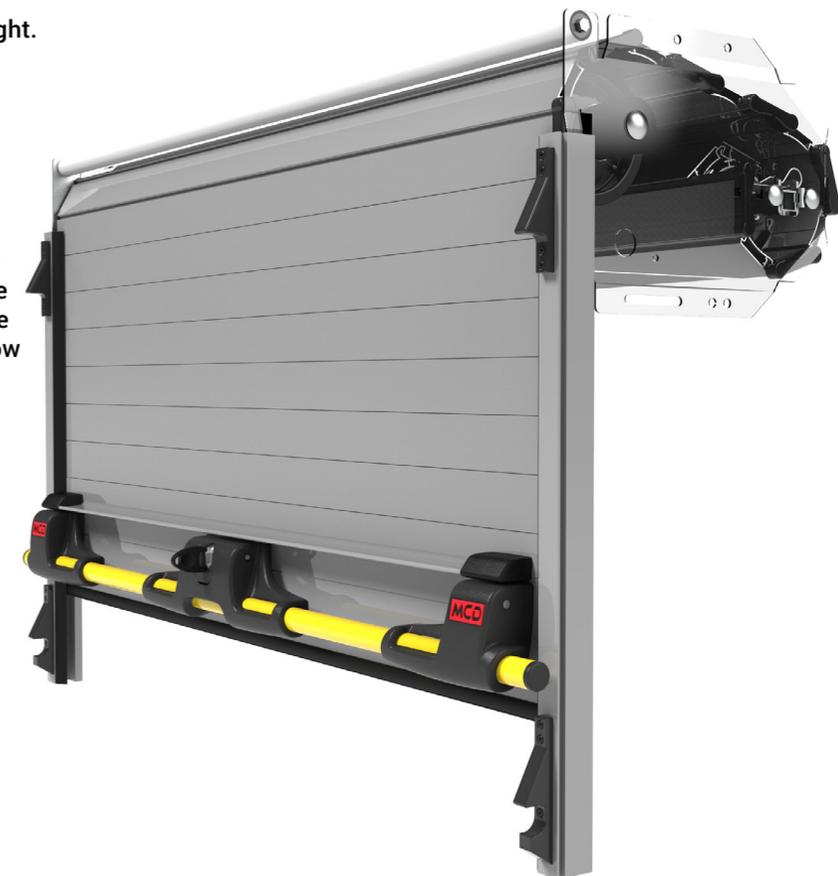
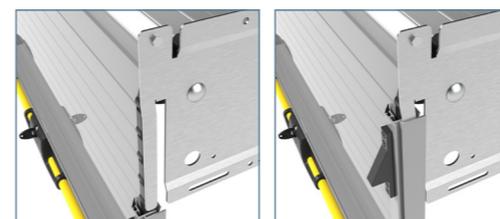
## Alu40 IZY 1.4

The Alu40 IZY shutter is made to measure with double-walled extruded slats of 40mm height.

The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

As difference from the Alu40 front roll standard system, the IZY version is delivered premounted in the shape of a cassette bloc on which the side tracks are connected in order to install the whole shutter directly in the opening (see drawing below and installation instructions for more details).

This system provide a lot of installation time saving by reducing the montage to about 20 minutes only.



It's delivered in different parts ready to install:

- 1 cassette bloc ready to install
- 1 pair of side tracks
- 1 packet of accessories



### Maximum / Minimum product dimensions

Maximum Height	2200 mm
Maximum Width	2500 mm
Minimum Width	355 mm
Maximum surface area	4 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	11 Kg

SHUTTERS 1.0

# Alu30 top slide 1.5

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[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALU30  
top slide



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALU30  
top slide



## Alu30 top slide 1.5

The Alu30 front roll shutter is made to measure with double-walled extruded slats of 30mm height. The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

It's delivered in different parts ready to install:

- 1 assembled shutter
- 1 pair of vertical side tracks
- 1 pair of horizontal side tracks
- 1 balancer
- 1 packet of accessories



### Maximum / Minimum product dimensions

Maximum Height	2200 mm
Maximum Width	2000 mm
Minimum Width	355 mm
Maximum surface area	2 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	12 Kg

## SHUTTERS 1.0

# Alucoffre

1.6

**MCD**



Detailed technical datas of each product available on our website

[www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
ALUCOFFRE



ORDER FORM



INSTALLATION INSTRUCTIONS  
ALUCOFFRE



## Alucoffre 1.6

The Alucoffre shutter is made to measure with double-walled extruded slats of 30mm height. The door can be used to close compartments or as loading access door in all kind of vehicles as replacement of conventional swing doors to optimise the space inside and outside.

As difference from our others shutters models, the Alucoffre is not balanced thanks to a spring system to assist user when opening the door. The shutter is sent in horizontal tracks at opening + rear of the compartment (if the depth is smaller than the shutter opening height).

This reduces considerably the minimum header dimension required to 75mm only in order to hide the mechanism.

This shutter model is adapted to small shutters surface by its low obstruction level (no balancer) and its passing height increased thanks to specific handles, smaller, adapted to that use (profile handle).

However, the weight of the shutter to lift could be quickly too heavy and dangerous for user if the dimensions are not controlled.

Then, we limit the shutter surface area to a maximum area of 0.5m<sup>2</sup>.



It's delivered in different parts ready to install:

- 1 assembled shutter
- 1 pair of vertical side tracks
- 1 pair of horizontal side tracks
- 1 packet of accessories

### Maximum / Minimum product dimensions

Maximum Height	1000 mm
Maximum Width	1000 mm
Minimum Width	100 mm
Maximum surface area	0,5 m <sup>2</sup>
Weight of the shutter /m <sup>2</sup>	12 Kg



# The ALUKITS

This is the perfect solution TO AVOID SPACE AND SAFETY ISSUES FOR USERS GENERATED BY CLASSICAL SWING DOORS OPENING ON THE ROAD

## 2.0 ALUKITS

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ALUKITS 2.0

# Alukit 2.1

RENAULT Master (H2 & H3)

NISSAN Interstar (H2 & H3)



# Alukit 2.1

RENAULT Master (H2 & H3)

NISSAN Interstar (H2 & H3)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork.

Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.



The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.

## Advantages

- Vehicle aesthetics preserved
- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



RENAULT Master (H2 & H3)  
NISSAN Interstar (H2 & H3)

Passing width : 1282 mm  
Passing height : 1650 mm

TECHNICAL SHEET  
ALUKIT  
RENAULT  
NISSAN



INSTALLATION INSTRUCTIONS  
ALUKIT  
RENAULT  
NISSAN



## ALUKITS 2.0

# Alukit 2.2

PEUGEOT Boxer (H2)  
CITROEN Jumper (H2)  
FIAT Ducato (H2)  
OPEL Movano (H2)



# Alukit 2.2

PEUGEOT Boxer (H2)  
CITROEN Jumper (H2)  
FIAT Ducato (H2)  
OPEL Movano (H2)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork. Installation required only 3 to 4 hours.

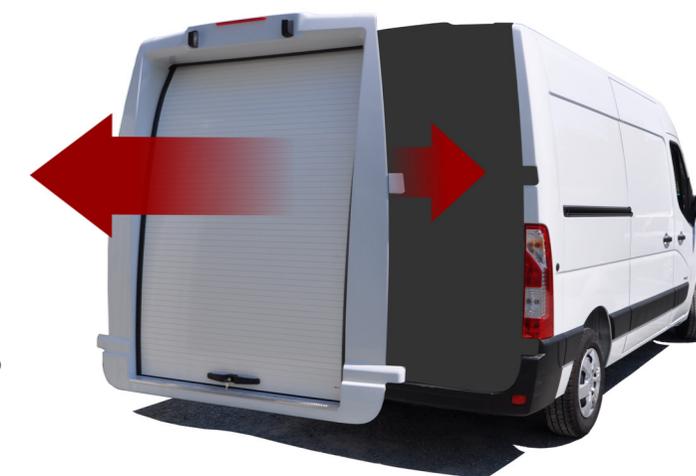
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The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

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- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



PEUGEOT Boxer (H2)  
CITROEN Jumper (H2)  
FIAT ducato (H2)  
OPEL Movano (H2)

Passing width : 1368 mm  
Passing height : 1700 mm

### TECHNICAL SHEET

PEUGEOT  
CITROEN  
FIAT  
OPEL



### INSTALLATION INSTRUCTIONS

ALUKIT  
PEUGEOT  
CITROEN  
FIAT  
OPEL



ALUKITS 2.0

# Alukit 2.3

VOLKSWAGEN Crafter (H3)

MAN TGE (H3)



# Alukit 2.3

VOLKSWAGEN Crafter (H3)

MAN TGE (H3)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

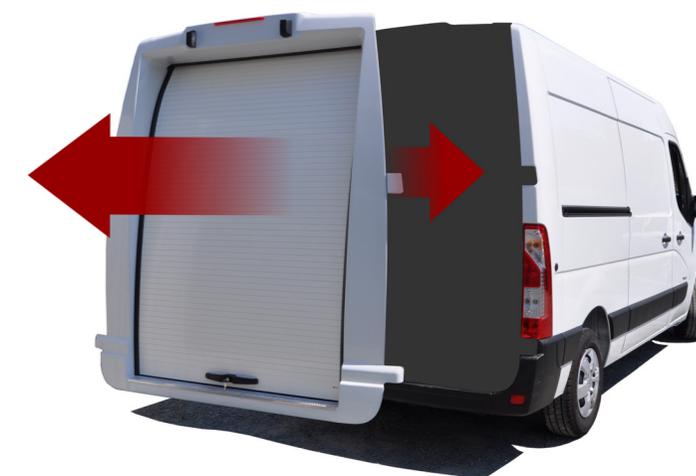
The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork.

Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.

The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.



## Advantages

- Vehicle aesthetics preserved
- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



VOLKSWAGEN Crafter (H3)  
MAN TGE (H3)

Passing width : 1280 mm  
Passing height: 1660 mm

TECHNICAL SHEET  
ALUKIT  
VOLKSWAGEN  
MAN



INSTALLATION INSTRUCTIONS  
ALUKIT  
VOLKSWAGEN  
MAN



ALUKITS 2.0

# Alukit 2.4

IVECO Daily (H2)



## Alukit 2.4

IVECO Daily (H2)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork.

Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.

The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.



## Advantages

- Vehicle aesthetics preserved
- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



IVECO Daily (H2)

Passing width: **1323 mm**  
Passing height: **1605 mm**

TECHNICAL SHEET  
ALUKIT  
IVECO Daily



INSTALLATION INSTRUCTIONS  
ALUKIT  
IVECO Daily



ALUKITS 2.0

# Alukit 2.5

FORD Transit (H2)

# Alukit 2.5

## FORD Transit (H2)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

The installation is reversible because it doesn't required any drilling, cutting or welding of the original van bodywork.

Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.

The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.



## Advantages

- **Vehicle aesthetics preserved**
- **Doesn't require any bodywork modifications** (no drillings, cutting welding or painting to do)
- **Original doors can be restored**
- **Simple and quick installation time** (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



FORD Transit (H2)

Passing width : 1354 mm  
Passing height : 1650 mm

TECHNICAL SHEET  
ALUKIT  
FORD Transit



INSTALLATION INSTRUCTIONS  
ALUKIT  
FORD Transit



ALUKITS 2.0

# Alukit 2.6

MERCEDES

Sprinter front wheels drive

(Standard high)



# Alukit 2.6

MERCEDES

Sprinter front wheels drive

(Standard high)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork. Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.

The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.



## Advantages

- Vehicle aesthetics preserved
- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip. Our frame is not compatible with all vehicles height available



MERCEDES Sprinter front wheels drive (standard high)

Passing width : 1354 mm  
Passing height : 1650 mm

TECHNICAL SHEET  
ALUKIT  
MERCEDES  
Sprinter front wheel



INSTALLATION INSTRUCTIONS  
ALUKIT  
MERCEDES  
Sprinter front wheel



ALUKITS 2.0

**Alukit** 2.7  
MERCEDES  
Sprinter rear wheels drive  
(Standard high)



# Alukit 2.7

## MERCEDES Sprinter rear wheels drive (Standard high)

The product is made of a fibreglass frame adapted to the rear shape of the vehicle and a roller shutter. It replaces the traditional rear swing doors of the van and fits exactly the previous location of the original doors.

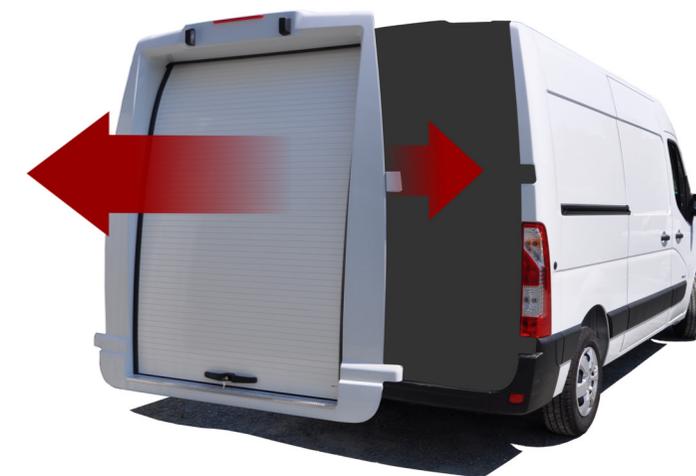
The installation is reversible because it doesn't require any drilling, cutting or welding of the original van bodywork.

Installation required only 3 to 4 hours.

This is the perfect solution to avoid space and safety issues for users generated by classical swing doors opening on the road.

The fibreglass frame is delivered in original white colour of the van manufacturer. The shutter could be delivered in powder coated following RAL colours or anodised finish.

The original white colour of the van manufacturer is made of spray liquid paint while the fibreglass frame is made with gelcoat. MCD cannot guarantee the perfect colour matching of both process, some slight colour difference could be visible.



## Advantages

- Vehicle aesthetics preserved
- Doesn't require any bodywork modifications (no drillings, cutting welding or painting to do)
- Original doors can be restored
- Simple and quick installation time (3 to 4 hours only)



### BE CAREFUL

Take care to double check carefully the exact vehicle model you want to equip.  
Our frame is not compatible with all vehicles height available



MERCEDES Sprinter rear wheels drive  
(standard high)

Passing width : 1270 mm  
Passing height : 1758 mm

TECHNICAL SHEET  
ALUKIT  
MERCEDES  
Sprinter rear wheel



INSTALLATION INSTRUCTIONS  
ALUKIT  
MERCEDES  
Sprinter rear wheel





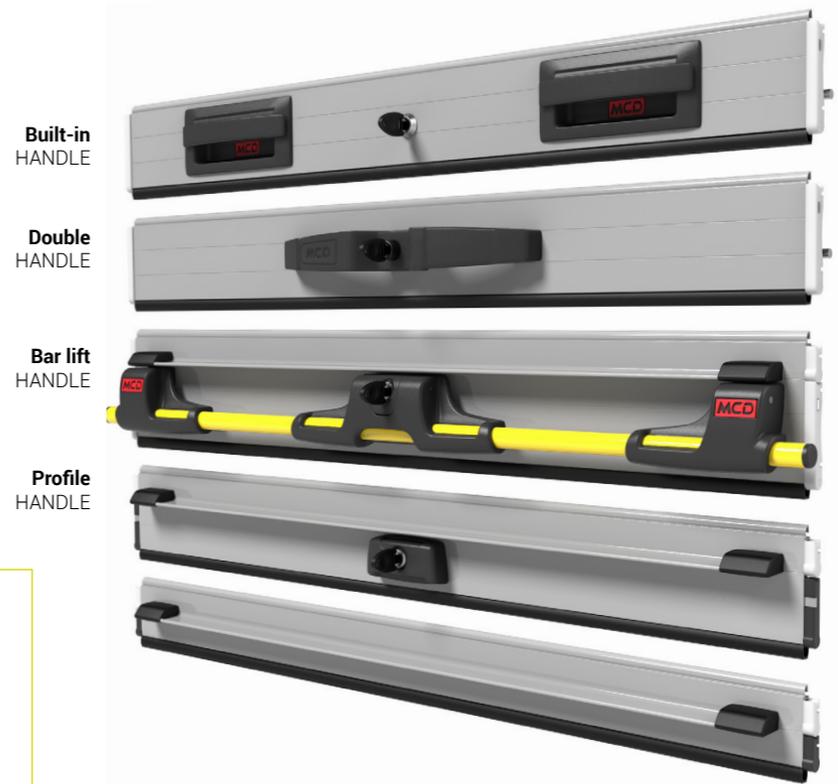
# THE CLOSING SYSTEMS

The handling of the shutter is made by SEVERAL CLOSING SYSTEMS AVAILABLE

Each shutter has to be equipped with a closing system to handle its opening and closing. We offer several possibilities with different characteristics depending of the requirements (double handle with central push button, bar lift handle generally supplied for fire fighting vehicles, built-in handle totally integrated in the shutter depth and simple profile handle for Alucoffre shutters only).

Those 4 closing systems are of course available with or without key. If many doors are installed on the same vehicle, it's possible to supply identical key number for all shutters.

We offer the possibility to place your company name on the handle instead of MCD.



**BE CAREFULL**  
All our options are not compatible with each closing system. You can refer to the board below to double check compatibility and also on the page 51

## 3.0 CLOSING SYSTEMS

- 3.1 DOUBLE HANDLE ..... 48
- 3.2 BAR LIFT HANDLE ..... 48
- 3.3 BUILT-IN HANDLE ..... 49
- 3.4 PROFILE HANDLE ..... 49

### Compatibility Options / Closing systems

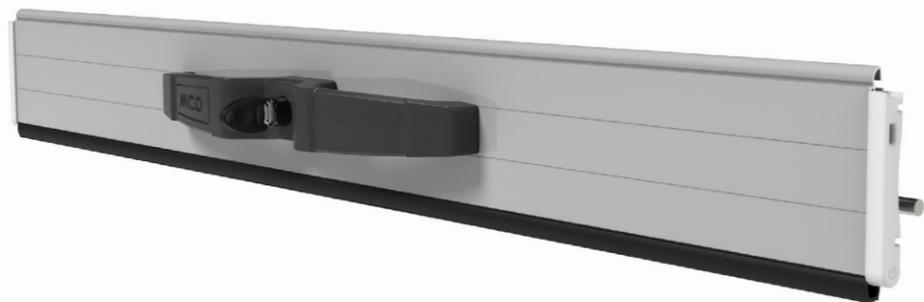
	Pull strap	Interior unlocking	Sensors	Electric locking system	LED lighting
Double handle	•	•	•		•
Bar lift handle	•	•	•	•	•
Built-in handle	•	•	•		•
Profile handle	•		•		•

# Closing Systems

## 3.1 Double handle

The closing of the shutter is done thanks to a double handle with central push button with or without key locking. The door is operated by this handle and is automatically locked when lowering on adjustable bottom blocking striker located at the rear of each track (image 1). It is stopped in opened position by adjustable flexible stopper located at the top of each track (image 2).

We propose, following shutters quantity, to personalised the handle with your company name.



## 3.2 Bar lift handle

The closing of the shutter is done thanks to a bar tube located in front of the shutters available with or without key locking mechanism. The door is operated by this tube and is automatically locked when lowering on adjustable bottom blocking striker located at the front of each track (image 3).

It is stopped in opened position by stopper located at the top of each track (image 4).

We propose, following shutters quantity, to personalised the handle with your company name.



## 3.3 Built-in handle

The closing of the shutter is done thanks to a built-in handle with or without key, fully integrated in the shutter thickness, to get no outside obstruction of the handle. The door open by lifting the lever integrated and is automatically locked when lowering on adjustable bottom blocking striker located at the rear of each track (image 5).

It is stopped in opened position by adjustable flexible stopper located at the top of each track (image 6).

We propose, following shutters quantity, to personalised the handle with your company name.



## 3.4 Profile handle

The closing of the shutter is done thanks to a profile handle with or without key lockign mechanism.

The second aluminium profile of the door includes a «L» shape design allowing the grip to maneuver the shutter.

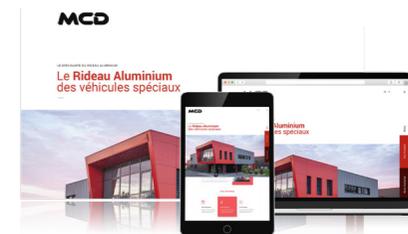
The door is locked in bottom position by a system of rodes and cremona.



### BE CAREFULL

Closing system only available for Alucoffre shutter model

Available on page 28/29



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
DOUBLE HANDLE



TECHNICAL SHEET  
BAR LIFT HANDLE



TECHNICAL SHEET  
BUILT-IN HANDLE



TECHNICAL SHEET  
PROFILE HANDLE



the  
CLOSING  
SYSTEMS

## Optional Equipments

Several additional equipments are available on demand :

- Pull strap for shutters installed too high
- Interior unlocking
- Sensors to detect the door position
- Compartment LED lighting integrated to the tracks
- Electric locking system

the  
CLOSING  
SYSTEMS

## Compatibility option/closing systems

MCD

Le Rideau Aluminium des véhicules spéciaux



Technical datas of each product available on our website at

[www.mcd-fr.com](http://www.mcd-fr.com)



BE CAREFUL

All options are not compatible with each closing system

### Compatibility Options/ Closing systems

	Pull strap	Interior unlocking	Sensors	Electric locking system	LED lighting
 <b>DOUBLE HANDLE</b>	•	•	•	-	•
 <b>BAR LIFT HANDLE</b>	•	•	•	•	•
 <b>BUILT-IN HANDLE</b>	•	•	•	-	•
 <b>PROFILE HANDLE</b>	•	-	•	-	•

• COMPATIBLE  
- NOT COMPATIBLE

# 4.0

OPTIONS

4.1	Bended tracks .....	54
4.2	Sill plate & Drip channel .....	56
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4.4	Interior unlocking .....	60
4.5	Electric locking system .....	62
4.6	Sensors .....	64
4.7	LED lighting for compartments .....	66
4.8	LED lighting drip channel .....	68

## the OPTIONS

All our  
EQUIPMENTS  
POSSIBILITIES  
FOLLOWING  
YOUR NEEDS

### **Bended tracks**

*Regular bend following given radius  
Bending following a given angle  
Mix of multiple bend on the same track*

### **Additional profiles**

*Drip channel  
Sill plate*

### **Pull strap**

### **Interior unlocking**

*For double handle  
For bar lift handle  
For built-in handle*

### **Electric locking system**

### **Sensors / switches**

*Magnetic sensors  
Mechanical sensors*

### **LED lighting for compartments**

### **LED lighting in a drip channel profile**



Technical datas of each product  
available on our website at  
[www.mcd-fr.com](http://www.mcd-fr.com)

OUTSIDE AREA LIGHTING INTEGRATED  
IN THE DRIP CHANNEL



OPTIONS 4.0

# Bended tracks 4.1



## the options Bended tracks 4.1

It's possible to install an aluminium roller shutter on a vehicle even if the frame design is curved, We will bend the tracks for you.  
To do that, we only require a jig tool or drawing of the bend requested taking care of the technical possibilities explained below :

### Regular bend following given radius

Minimum radius  $\geq 750$  mm

### Bending following a given angle

Maximum angle  $\leq 5^\circ$

### Mix of multiple bend on the side tracks

#### BE CAREFUL

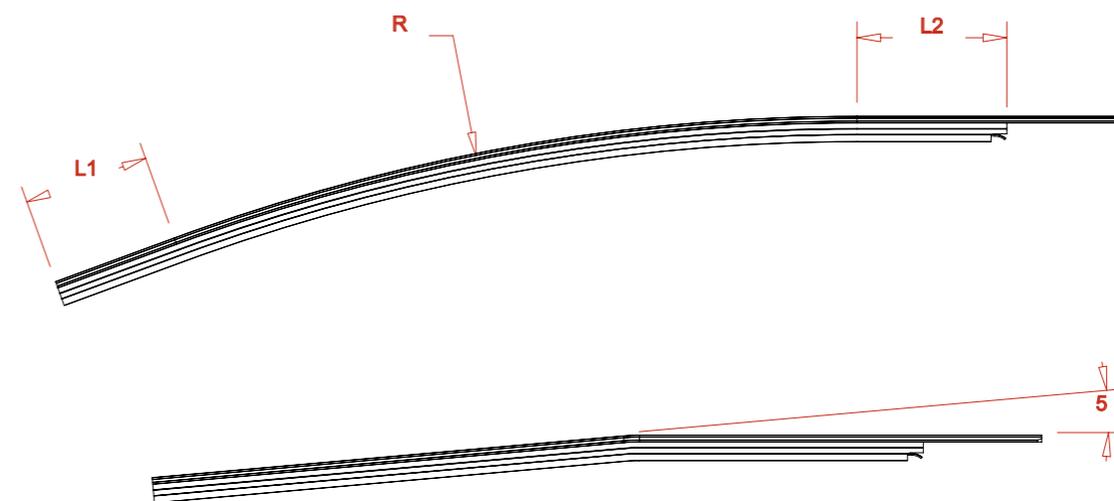
It's important to consider that the top and bottom of the tracks have to remain straight, without bending, because of the technical limits of the machine.

**L1  $\geq 160$  mm**

**L2  $\geq 190$  mm**

**R mini  $\geq 750$  mm**

**A  $\leq 5^\circ$**



**MCD**

Le Rideau Aluminium des véhicules spéciaux



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
BENDED TRACKS



OPTIONS 4.0

# Additional profiles 4.2

**MCD**



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

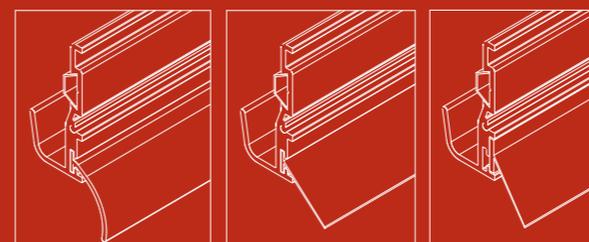
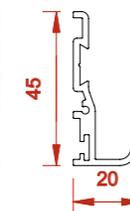
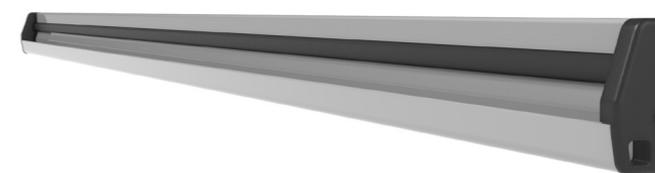
TECHNICAL SHEET  
OPTION  
ADDITIONAL PROFILES



## the options Additional profiles 4.2

### Drip channel

An aluminium drip channel profile, to optimise water rejects, is installed in the top part of the compartment. It's available in different colour finish. This profile is installed thanks to screws or rivets in the specific profile groove hidden by a seal to get a uniform finish without visible screws. 2 pvc end caps are also supplied installed on each side of the profile and hold in position with screws to avoid losing the caps.

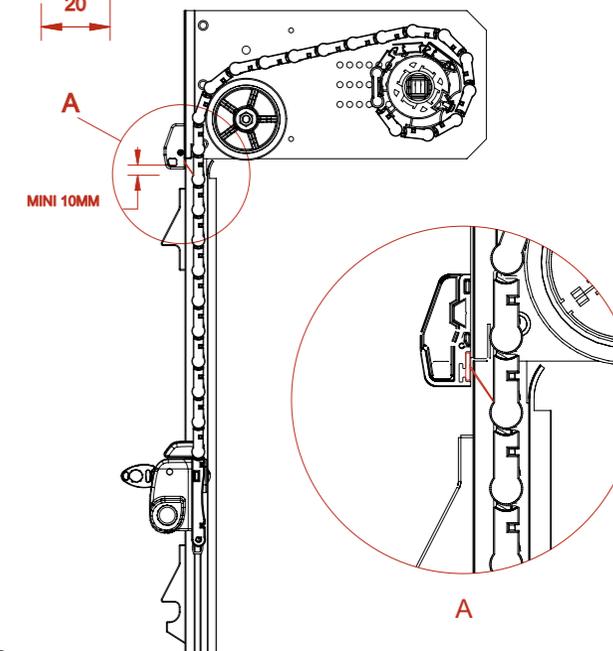


FLOCKED TOP SEAL

SMOOTH TOP SEAL

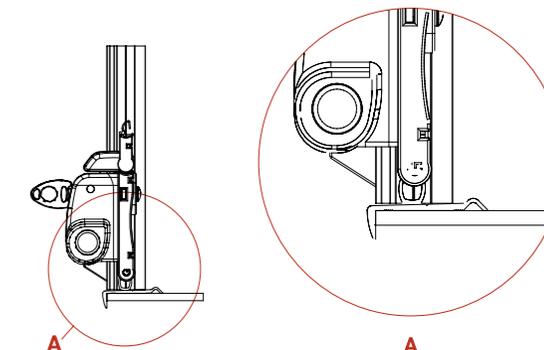
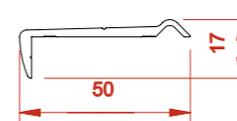
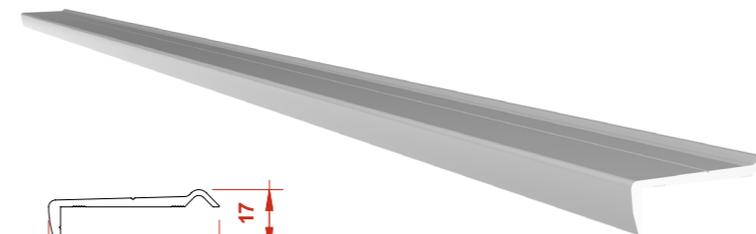
SELF ADHESIVE SMOOTH TOP SEAL

This drip channel profile can also be used to integrate the top seal when installed half way in front of the header and shutter surface. Several top seal models are available from MCD to choose the most adapted one following your bodywork construction.



### Sill plate

An aluminium sill plate profile is available to your measurements with various colour finish possibilities.



OPTIONS 4.0

# Pull strap 4.3



**MCD**



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
PULL STRAP



INSTALLATION INSTRUCTIONS  
OPTION  
PULL STRAP



## the options Pull strap 4.3

This option is very useful for high shutters, when it's not possible to catch the handle to close the shutter. We can install in this situation a pull strap to close the shutter even if the handle cannot be reached.  
**2 models are available :**

### « Standard » pull strap

A red strap with MCD logo of about 20mm width is installed between the top side panel and the bottom profile with handle. This location insures the strap to stay always inside the compartment when shutter is closed, without falling outside, for a better aesthetic and longer lifetime.



### « Rubber » pull strap

A red rubber pull strap of about 25mm width is installed on the vehicle between the bottom profile with handle and the middle of the shutter height, on the compartment walling. The rubber part insures this strap to stay always straight in the compartment in closed and opened shutter position in order to don't disturb user with a strap facing the locker equipment.



OPTIONS 4.0

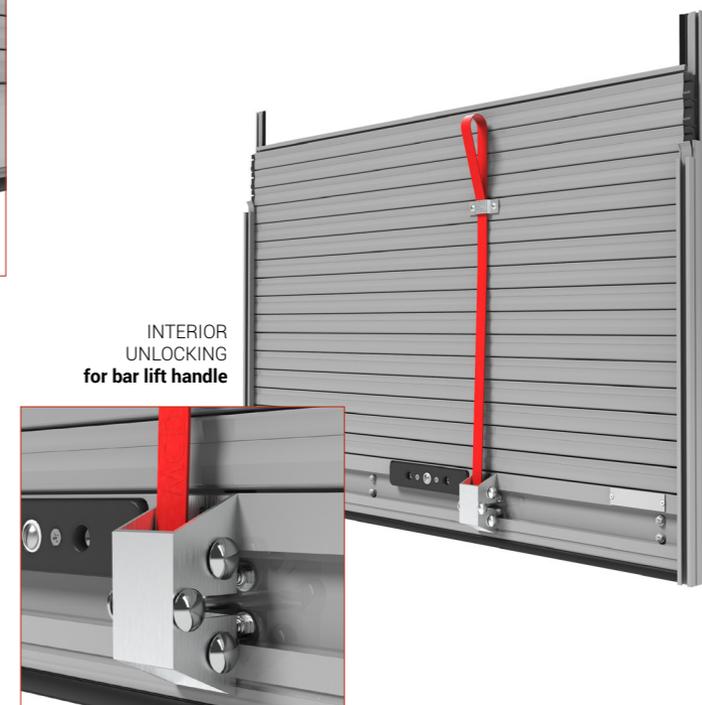
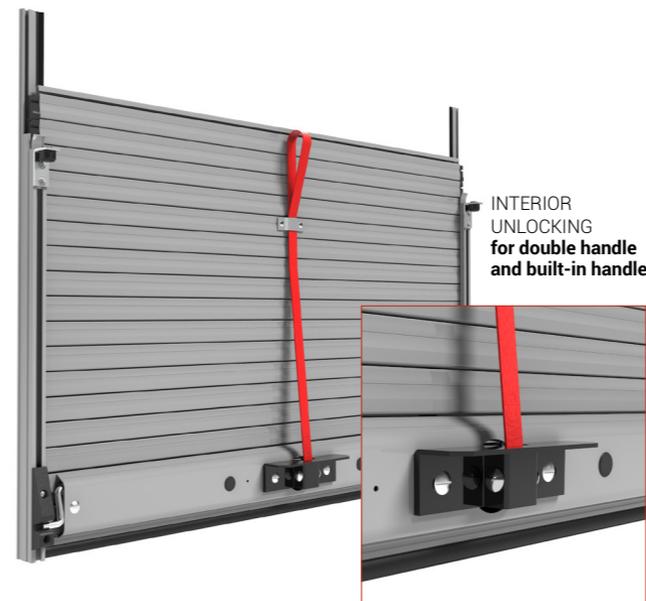
# Interior unlocking 4.4



## the options Interior unlocking 4.4

This option, installed at the rear of the shutter, allows user to unlock the door from the inside. This is a usable option when the shutter is installed as an access door, when user could be locked inside the box. A simple lift of the handle strap is enough to unlock the closign system and open the shutter.

### Interior unlocking for double handle, built-in handle and bar lift handle



**MCD**



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
INTERIOR UNLOCKING



INSTALLATION INSTRUCTIONS  
OPTION  
INTERIOR UNLOCKING



OPTIONS 4.0

# Electric locking system 4.5

**MCD**



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET OPTION  
ELECTRIC LOCKING SYSTEM



INSTALLATION INSTRUCTIONS OPTION  
ELECTRIC LOCKING SYSTEM



## the options Electric locking system 4.5

This option (only compatible with our bar lift handle closing system) allows the unlocking of the vehicle's doors at the same time. Each shutter is equipped with 2 electro-magnet (1 per side) activating a locking bolt to insure the locking of the shutter electrically.

This system saves essential time for emergency vehicles when arriving on the scene by instantly unlocking all the shutters together. This solution is also appreciated when installed on delivery vehicles to save time and bring more safety by automatic lock.

This option is delivered with a push button to place in the cabin for driver with 2 positions to open or lock the door. The option can also be controlled by others devices if necessary such as a remote control, hidden button or hand brake parking.

### Advantages

- Instant power consume only when operating the system
- Easy installation and use
- Manual safety operation in case of power failure
- Available in 12 or 24V
- Safety and time saving option for specifics vehicles



#### BE CAREFUL

This option is only compatible with our bar lift handle closing system

### Operation

An impulse on the «closed padlock» button position activates the electro-magnet to release the locking bolt and lock the shutter (picture 2). The opening of the shutter is then impossible because of the locking rode obstruction.

An impulse on the «opened padlock» button position pull out the lockign bolt and let free the way of the shutter to open without any abstraction (picture 3).

#### Electric locking system PERPENDICULAR INSTALLATION



#### Electric locking system PARALLEL INSTALLATION



### Safety operation

This option works in parallel with our manual key locking system as an emergency maneuver in the event of components or power failure. Simply insert the key in the lock cylinder of the bottom profile with handle which moves the locking rode manually and allows the opening of the shutter (picture 4).

OPTIONS 4.0

## Sensors 4.6

## the options Sensors 4.6

This option detects the door position and provides a signal / information about the doors statement : opened or closed.

Then, it's possible to wire on it a lighting system (MCD can supply, option 4.7) for automatic lighting of the compartment when opening the shutter. This signal can also be wired on a cabin signal, buzzer or computer to inform the driver, crew about shutter position.

MCD propose in its range

**2 models of magnetic sensors (direct and indirect) and 1 mechanical model, to answer each needs.**

### *Magnetic sensors*

A red pvc cap with integrated magnet is installed on each shutter side of a slat profile.

A sensor with electro-magnetic detection integrated in special resin to be totally waterproof, is installed on 1 of the tracks in front of the magnet position when shutter is closed. It's possible to adjust easilly the sensor position on the tracks if needed. When opening the shutter, the lighting of the compartment and signal in the cabin are automatically activated.

This lighting is activated 1 second after the opening to avoid untimely ignition when the truck is moving and shutter too.

**MCD**



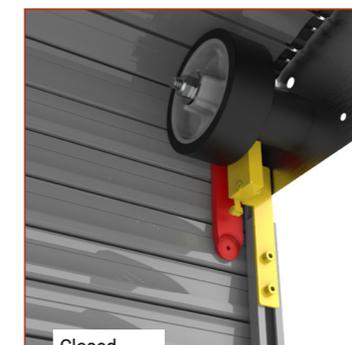
Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
SENSORS

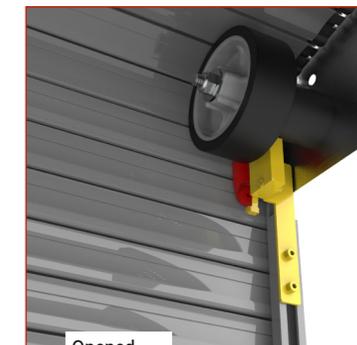


### *Mechanical sensor*

The mechanical sensor's lever which activate the switch is hold in position thanks to a black rubber installed at the rear of the shutter, at a specific position, to face the sensor when shutter is in closed position. When opening the door, the rubber roll inside with the door and release the sensor lever to activate the system. The power is then supplied to the lights connected and to cabin signal for the crew.



Closed position



Opened position

OPTIONS 4.0

# Compartment LED lighting 4.7

**MCD**



Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
COMPARTMENT  
LED LIGHTING



## the options Compartment LED lighting 4.7

MCD LED lighting system is composed of a flexible LED ribbon where are integrated some CMS LED fully covered by a resin to make waterproof the whole system (IP67). As difference from basic ribbon available on the market, our LED has been develop to fit vehicles requirements with some additionnals electronic components to protect the system for automotive use.

Those LED are available in 2 voltages to precise at ordering time: 12 or 24V. MCD can adjust the lenght by step of 100mm.

We can integrate those LED in 2 kinds of aluminium profiles following your requirements:



1. An aluminium profile with 2 end caps, clipped onto the rear of the tracks, with 45° orientation to the inside of the locker.



2. A flat aluminium profile with 2 end caps ready to install everywhere on a flat surface.



## Advantages

- Uniform light distribution all along the locker height
- Fully integrated to the shutter components
- Instant lighting
- Automotive electronic protections
- Adjustable lighting position
- High-performance white lighting
- Reduced consumption : 14,4W/m
- Waterproof system IP67

LOCKER EQUIPPED  
with LED lighting

## OPTIONS 4.0

# Outside area LED lighting 4.8

**MCD**



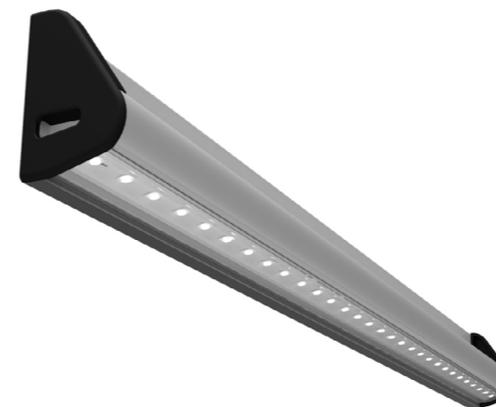
Technical datas of each product available on our website at [www.mcd-fr.com](http://www.mcd-fr.com)

TECHNICAL SHEET  
OPTION  
OUTSIDE AREA  
LED LIGHTING



## the options Outside area LED lighting 4.8

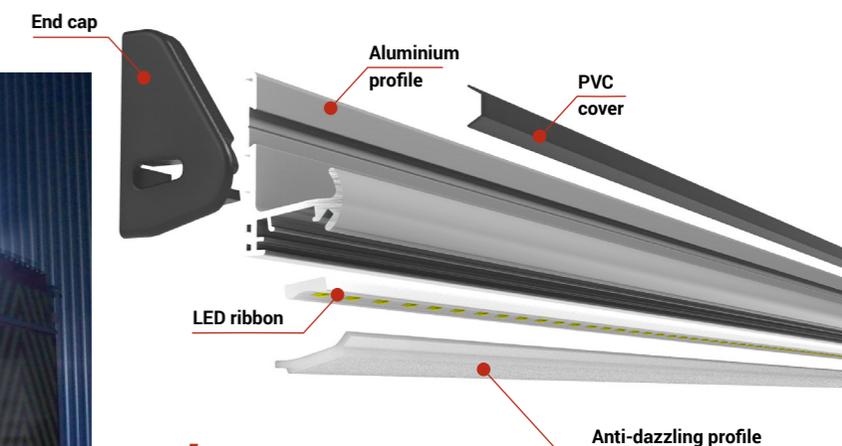
This option consists in an aluminium drip channel profile useful to protect user from water flow in which is integrated a powerful LED lighting with anti-dazzling profile in PMMA to flood the light. The specific rear shape of this profile can be used to hold any kind of top seal we propose in our range.



The advantage of this drip channel integration is to supply a regular lighting flow all along the vehicle if necessary while being diffused using the anti-dazzling PMMA profile which also protect the LED.

This avoid having only 1 powerfull spot source that is too dazzling in the night.

The maximum lenght of this profile is about 6.90m and can accept 2 LED voltages: 12 or 24V to precise at ordering time.



## Advantages

- Uniform light distribution all along the vehicle lenght
- Instant lighting
- Automotive electronic protections
- High-performance white lighting
- Reduced consumption : 14,4W/m
- Waterproof system IP67
- Anti-dazzling and protection profile





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5.0  
EXAMPLES

5.1 Some examples ..... 70





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