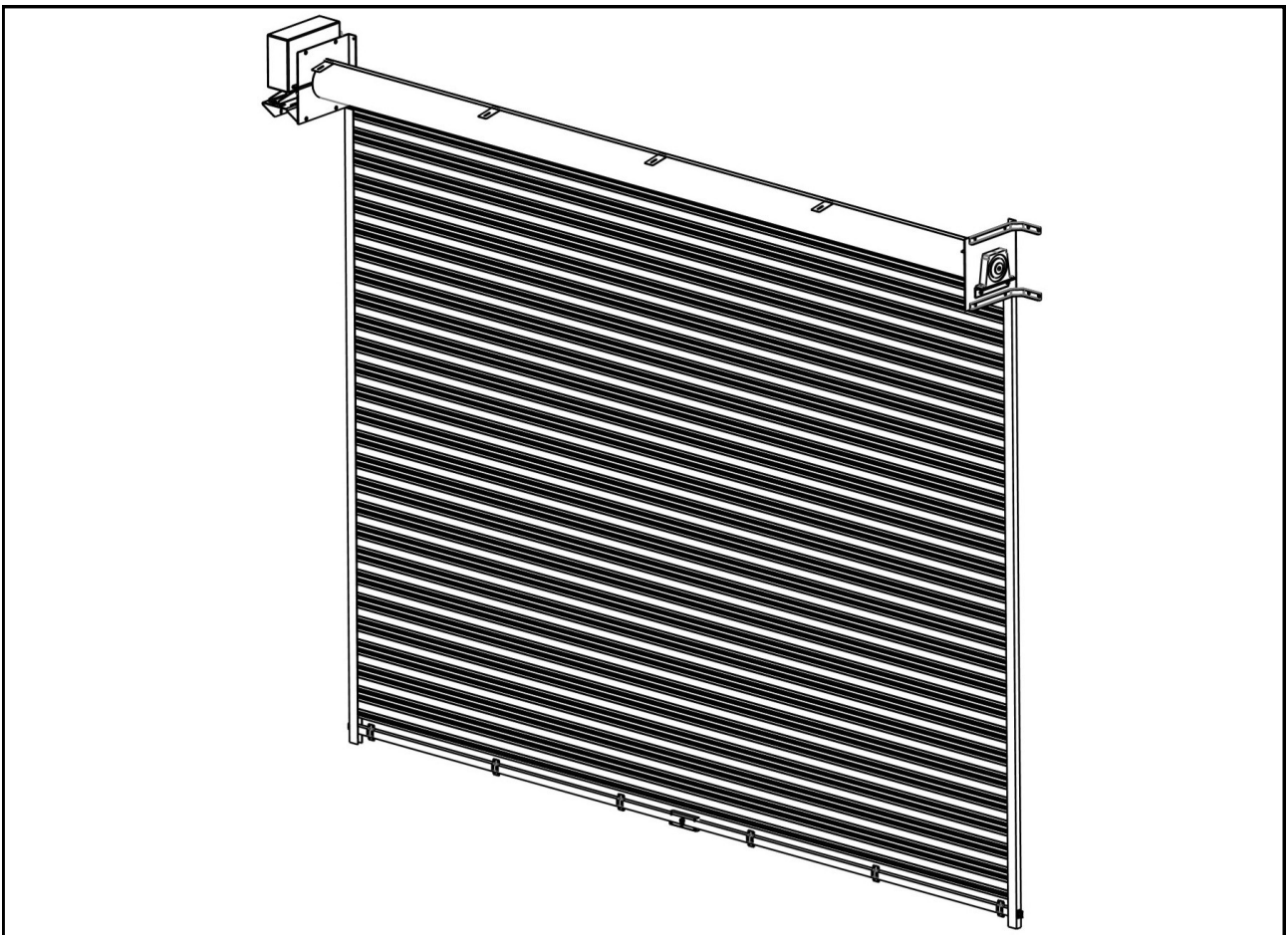


User manual

N°2103

07/19

Murax Shutter and Dentel Grille





WARNING!



**To ensure the safety of people,
it is very important that you carefully follow
all the instructions below and keep them.
If in doubt, contact your installer.**

- Read this manual carefully before use.
- All the parts delivered are specifically sized for this product. Adding or removing parts may be detrimental to your safety and may affect the product's warranty.
- Operation of the door by untrained persons (especially children) is **strictly prohibited**.
- When using a remote control, do not leave it within the reach of untrained persons (children, etc.).
- The door must be monitored as it moves. Move people away from the door until the door is fully open or closed.
- **A moving door is a heavy product.** Improper use, poor handling or malfunction can cause **serious accidents**.
- If you have any questions about this manual, please contact your installer.
- Always be very careful when using a door.

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KEY :



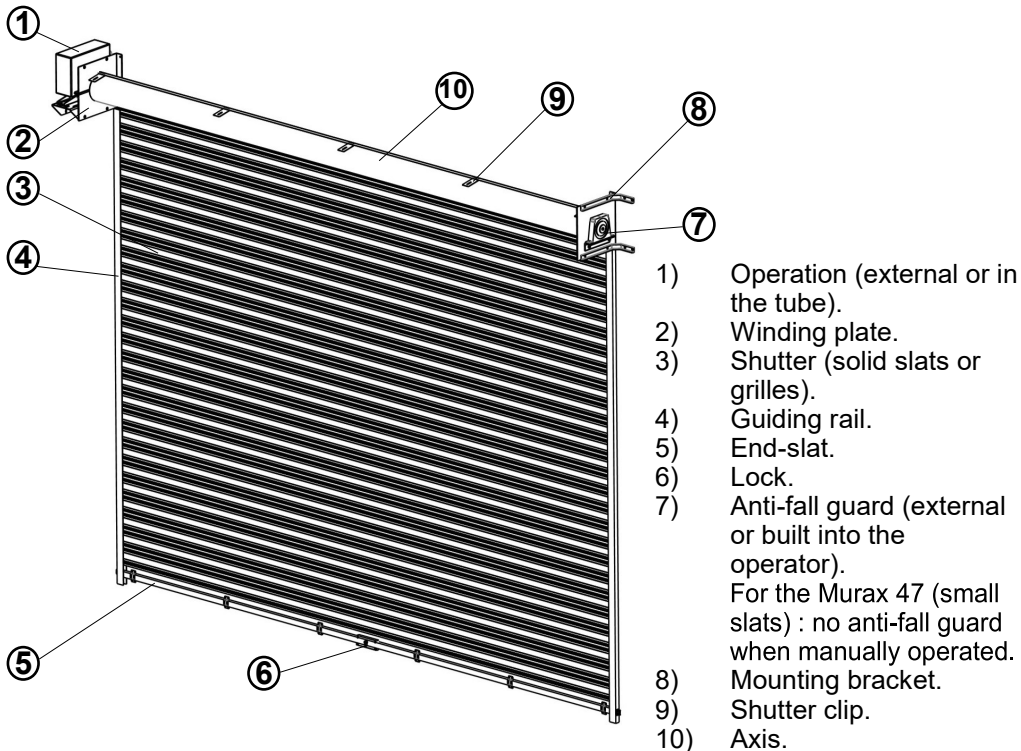
"WARNING - DANGER"



"DO NOT TOUCH"

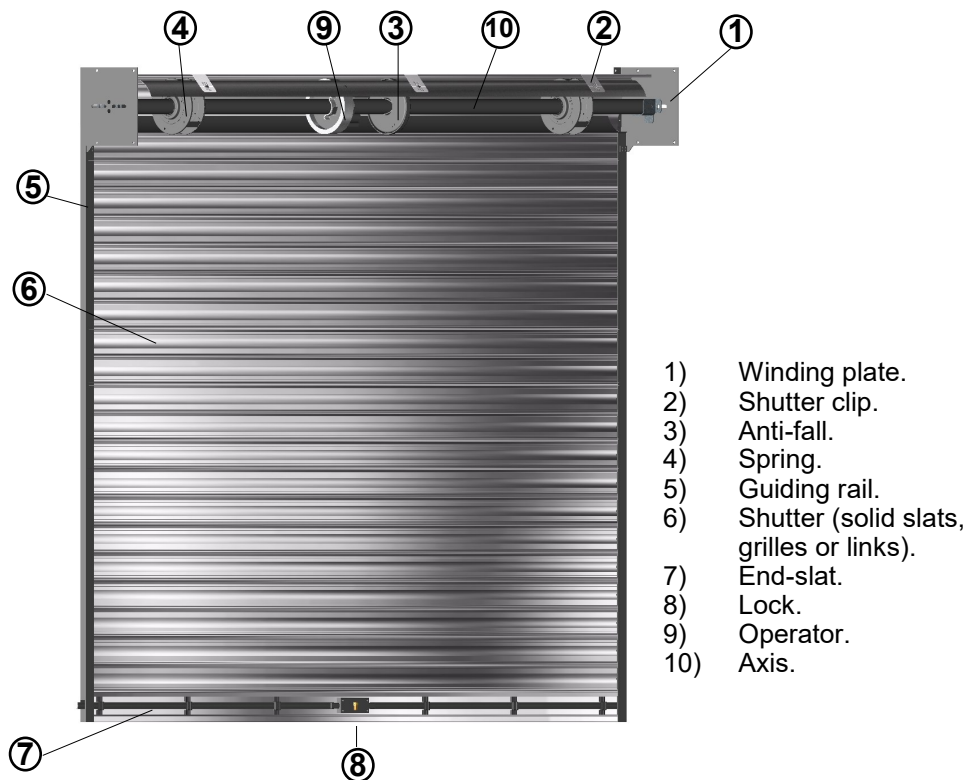
Description of Shutters and Grilles

Motorized hollow axis (Gear operator driven)



(Shutter diagram Murax hollow axis parachuted with BOX operator)

Shutter with motorized and compensated spring axis



(Shutter diagram Murax axial motorized with Anti-fall)



SECURITY INSTRUCTIONS FOR THIS DOOR

Improper installation, use or maintenance of this Door can cause serious injury. Make sure this door is CE marked.

Observe the following instructions :

- A. Installation, maintenance and repairs may only be carried out by qualified fitters.
- B. Before any installation, maintenance or repair, the installer must read the installation manual. This manual is always delivered with the door, it must be available on site.
- C. **A moving door is a heavy product.** Improper use, poor handling, or malfunction can cause **serious accidents.**
- D. Children are not authorized to use this door !
- E. Always be sure to look at the door when operating it with a remote control. People, children or objects may be in the way !
- F. Move fingers away from the panels, rails and other moving parts of this door. Use only the handles available to move the doors manually.
- G. Make sure this door is inspected and maintained regularly by a professional.
- H. If safeguard is engaged, no force must be exerted to open or close the door. Contact your installer.

Safety equipment

To meet European regulations,

a door must be equipped with safeguards to prevent the door shutter from falling.

Please note : In the case of a spring axis, when the weight of the shutter $\leq 120\text{Kg}$, the compensation is carried out without "Anti-fall".

The standard NF EN 13241 + A2 authorizes an unbalance $\leq 20\text{Kg}$;

Therefore, all our axes have been recalibrated with springs whose force is $\leq 20\text{Kg}$.

- **Anti-fall guard :**

The anti-fall guard prevents the shutter from falling in the event of a broken compensating element or an imbalance. The axis is then blocked and the shutter can no longer be lowered. The door will work again when the defective parts are replaced by your installer.



**If the anti-fall guard engages, do not touch the lock,
secure the danger zone and call your installer !**

**The release or replacement of the anti-fall guard may only
be carried out by competent personnel !**

**Never try to open or close a door
with the anti-fall guard engaged.**

Operating principle

The shutter is guided vertically by guiding rails and winds up around an axis during opening and unwinds when closing.

There are three types of doors :

- **Compensated doors :** When manually operated, the weight of the shutter is compensated for by means of a spring or springs. Which allows and facilitates the operation of the door in any position.
- **Compensated and motorized doors :**
The weight of the shutter is compensated for with a spring or springs.
The operator is used as a maneuver.
- **Motorized doors :**
The weight of the shutter is entirely taken up by motorization
(there are no springs to compensate for the weight of the shutter).



Never wedge an unbalanced door with any object.

**Always watch the door as it opens and closes.
Make sure that no persons or objects are in the doorway
or near the guiding rails.**

**WARNING : Never lock yourself inside premises
with only one access.**

Types of operation

- **Direct pull (manual) :**

Opening : Take the shutter by the handle and pull it up.
Do not make any sudden upward movement.

Closing : Take the shutter by the handle and pull it down.
Do not make any abrupt downward movements,
as this may cause the anti-fall guard* to engage.
If you engage the anti-fall guard, raise the shutter
a few centimeters and lower it more slowly.

* On a shutter with anti-fall guard.



IMPORTANT

**Never let go of the shutter.
Accompany the shutter throughout its run, using the handle
and pull stick, if Height > 2000 mm.**

Only for the Murax 47 (small slats)

- **Winch (crank drive) :**

Opening : Turn the crank handle in the direction of the shutter roll-up.
Stop in the raised position as soon as the shutter is in the raised position.

Closing : Turn the crank the other way.
Stop in the down position as soon as the shutter touches the ground.

- **Motorized drive (by electric control) :**

INFORMATION

A door can be equipped with three different types of controls :

- **Hold to run :**
Control device that requires continuous manual operation to function.
- **Pulse :**
Control device that requires a brief action to initiate movement.
- **Automatic :**
Door movement without voluntary manual control.

In addition, 2 notions are to be taken into consideration :

- **The user :** Trained or untrained.
- **The layout :** In or outside public area.

Please note : Users may be considered "trained" when authorized by the employer, supervisor or owner of the premises to use the fence element and when they have been given information on how to use it.
The two above points determine the safety protocol to be followed.

POSSIBLE CONTROL TYPES :

➤ 2-button box for hold to run



Opening : Hold down the button continuously to open the door.



Closing : Hold down the button continuously to close the door.

Stop : Release the open or close button.

➤ 1-button box for pulse or automatic mode



Opening : Press the button once to open the door.

Closing : Press the button once to close the door (pulse).
In automatic mode, the door goes down after a given time.

➤ 3-button box



Opening : Press the "up" button once to open the door.

Closing : Press the "down" button continuously to close the door.

Stop : On ascent, press the stop button and on descent, release the "descent" button.

➤ **Key switch box for hold to run**



▲ Opening : Turn and hold the key in the opening direction to open the door.

▼ Closing : Turn the key and hold it in the closing direction to close the door.

Stop : Release the key.

➤ **Key switch for pulse**



Opening : Turn the key in one direction to trigger the opening.

Closing : Turn the key in the same direction to trigger closing.

Stop : Turn the key in the same direction to trigger the stop.

➤ **Key switch box for automatic**



▲ Opening : Turn the key to the right to open the door.

Closing : The door comes down after a certain amount of time.

OPERATIONAL CONTROLS :

- It is possible to add other pulse or automatic control devices : télécommanderemote control, magnetic loops, etc.



The modification of existing equipment or the addition of equipment not approved by LA TOULOUSAIN may cause malfunctions and accidents. For security reasons, do not make any changes yourself. Only a qualified installer can make regulatory changes.

SAFEGUARD TYPES :

- Contact safety device (safety edge)

The bottom seal of the door is equipped with a contact safety device. If this seal is compressed during closing, the door stops and its movement is reversed.

- Presence safety device (cells)

The cells (transceiver) installed on either side of the door stop the closing and reverse the movement in case of beam cut-off. If a cell is out of adjustment or not powered, the door will no longer function. Contact your installer.



To prevent damage or accidents, nothing must hinder the movement of the door.

Emergency maneuver on a motorized fence element

For operation, see the explanatory sheet given to you by your installer.
Make sure you keep these instructions near the door.



If the operator is disengaged (for compensated doors only), the shutter may move if the door is not correctly balanced. It must therefore be closed or securely held.

Prohibited

Weight changes disrupt door balance.



Never :

- **Lean against the shutter or the guiding rails.**
- **Add or remove weight from the shutter.**
- **Use the door as a hoist.**
- **Climb along the shutter (Dentel Grille).**
- **Hold onto or hang from the shutter.**
- **Stand under a moving door.**



WARNING : Never lock yourself inside a premise with only one access.

Maintenance, repair and faults



European standards require frequent maintenance and inspection of fence elements. For your own safety, establish a service contract with a qualified company that will determine the frequency and maintain the doors.

The maintenance of our products must be carried out according to our maintenance records based on the number of daily uses.



Any work on a door must be performed only by a qualified professional installer.



If the shutter falls down by itself (of its own weight), the door must be checked and inspected by a professional installer.



Never clean a door with high-pressure washers or with aggressive products.

In addition, the MURAX VISION shutter, must not be cleaned with fluffy and abrasive materials, use a chamois for example.



DECLARATION OF CONFORMITY 

We, the undersigned, FTFM LA TOULOUSAIN, located in Escalquens (31676 Labège Cedex), declare that the product designated hereafter meets the requirements of the harmonized standard NF EN 13241 + A2, for products delivered as a single supply.

Therefore, we declare the conformity of the product mentioned below with the provisions of the following European directives :

- 305/2011/EC : Construction Products Directive (manual and power-operated doors)
- 2006/42/EC : Machinery Directive (power-operated doors)
- 2014/35/EU : Low Voltage Directive (motorized doors)
- 2014/30/EU : Electromagnetic Compatibility Directive (power doors)

Product Performance Levels :

Water tightness	Class : PND*
Resistance to wind load	Class : 1 to 5 depending of door characteristics
Thermal transmittance	Class : PND*
Air permeability	Class : PND*
Durability of watertightness, thermal resistance and air permeability	Class : PND*

(*) PND : Performance not determined

PRODUCT DESCRIPTION	
Place of manufacture	31750 ESCALQUENS - FRANCE
Model	Rideaux MURAX 110 et 47 - MURAX VISION MURAX ISOLATED - DENTEL Grilles.
Class of use	Industrial, commercial and garage doors, manual or motorized.
Notified Bodies	CETIM - 7, rue de la presse - 42952 ST-ÉTIENNE CTBA - Allée de Boutaut - 33028 BORDEAUX CSTB - 24, rue Joseph Fourier - 38400 ST-MARTIN D'HÈRES

Escalquens, 30 May 2018

Tugdual DAVID
Product Manager

Declaration of performance

N°1307-RPC-MD

We, the undersigned, FTFM LA TOULOUSAINE, located in Escalquens (31676 Labège Cedex), declare that the products listed below comply with Annex ZA of standard NF EN 13241 + A2. Doors and gates for industrial and commercial premises and garages. (Products without fire or smoke protection features).

The main intended use is to provide safe access to goods and vehicles that are accompanied or driven by persons in commercial or industrial premises, or in public or residential buildings.

- The products concerned : Le CETIM n°0526, CSTB n°0679, FCBA (CTBA) n°0380 carried out the tests required by the standard as per system 3.

- | | |
|--|---|
| - Test report n°BV10-655 | issued by the CSTB (Shutter 3050x2789 mm). |
| - Test report n°BV13-981 | issued by the CSTB (Shutter 4010x2650 mm). |
| - Test report n°BV13-986 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-987 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-988 | issued by the CSTB (Shutter 6000x4800 mm). |
| - Test report n°05/CTBA-IBC/PHY/3148/6 | issued by the FCBA (CTBA) (Shutter 5000x3000 mm). |
| - Test report n°05/CTBA-IBC/PHY/3148/7 | issued by the FCBA (CTBA) (Shutter 5000x3000 mm). |
| - Test report n°05/CTBA-IBC/PHY/3148/8 | issued by the FCBA (CTBA) (Shutter 4500x3000 mm). |
| - Test report n°05/CTBA-IBC/PHY/3148/9 | issued by the FCBA (CTBA) (Shutter 4500x3000 mm). |
| - Test report n°781395/150080 partial 3 | issued by the CETIM (Shutter 4010x5900 mm). |
| - Test report n°781395/150080 partial 5 | issued by the CETIM (Shutter 9830x2600 mm). |
| - Test report n°781395/150080 partial 6 | issued by the CETIM (Shutter 9855x5300 mm). |
| - Test report n°781395/150080 partial 10 | issued by the CETIM (Shutter 4010x5900 mm). |

Essential characteristics	Performance	Technical specifications
Water tightness	NPD	
Emission of dangerous substances	Passed	Complies with § 4.2.9 of standard NF EN 13241 + A2
Resistance to wind load	1 to 4	Class 4 : 5000x3000 mm, 8/10 th with slides and hooks Hurricane Class 3 : 4500x3000 mm, 6/10 th with slides and hooks Hurricane
Thermal resistance (if applicable)	NPD	
Air permeability	NPD	
Opens in complete safety	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Definition of the geometry of glass components	NPD	
Mechanical resistance and stability	Passed	Complies with § 4.2.3 of standard NF EN 13241 + A2
Operating forces (for motorized doors)	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Durability of water tightness, thermal resistance and air permeability with regard to deterioration	NPD	

February 01, 2018

Tugdual DAVID
Product Manager



Declaration of performance

N°1308-RPC-47

We, the undersigned, FTFM LA TOULOUSAINE, located in Escalquens (31676 Labège Cedex), declare that the products listed below comply with Annex ZA of standard NF EN 13241 + A2. Doors and gates for industrial and commercial premises and garages. (Products without fire or smoke protection features).

The main intended use is to provide safe access to goods and vehicles that are accompanied or driven by persons in commercial or industrial premises, or in public or residential buildings.

- The products concerned : The CSTB n°0526 carried out the tests required by the standard according to system 3.
- Test report n°781395/150080 partial 1 issued by the CETIM (Shutter 47 WGI 1,280 x HGI 2,530 mm).
- Test report n°781395/150080 partial 2 issued by the CETIM (Shutter 47 WGI 3,100 x HGI 3,240 mm).

Essential characteristics	Performance	Technical specifications
Water tightness	NPD	
Emission of dangerous substances	Passed	Complies with § 4.2.9 of standard NF EN 13241 + A2
Resistance to wind load	NPD	
Thermal resistance (if applicable)	NPD	
Air permeability	NPD	
Opens in complete safety	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Definition of the geometry of glass components	NPD	
Mechanical resistance and stability	Passed	Complies with § 4.2.3 of standard NF EN 13241 + A2
Operating forces (for motorized doors)	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Durability of water tightness, thermal resistance and air permeability with regard to deterioration	NPD	

February 01, 2018

Tugdual DAVID
Product Manager



Declaration of performance

N°1309-RPC-VI

We, the undersigned, FTFM LA TOULOUSAINE, located in Escalquens (31676 Labège Cedex), declare that the products listed below comply with Annex ZA of standard NF EN 13241 + A2. Doors and gates for industrial and commercial premises and garages. (Products without fire or smoke protection features).

The main intended use is to provide safe access to goods and vehicles that are accompanied or driven by persons in commercial or industrial premises, or in public or residential buildings.

- The products concerned : CETIM n°0526, CSTB n°0679 have performed the required tests by the standard according to system 3.

- | | |
|---|---|
| - Test report n°BV10-655 | issued by the CSTB (Shutter 3050x2789 mm). |
| - Test report n°BV13-981 | issued by the CSTB (Shutter 4010x2650 mm). |
| - Test report n°BV13-986 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-987 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-988 | issued by the CSTB (Shutter 6000x4800 mm). |
| - Test report n°781395/150080 Partiel 3 | issued by the CETIM (Shutter 4010x5900 mm). |
| - Test report n°781395/150080 Partiel 5 | issued by the CETIM (Shutter 9830x2600 mm). |
| - Test report n°781395/150080 Partiel 7 | issued by the CETIM (Shutter 4840x3000 mm). |
| - Test report n°CET0015471 | issued by the CETIM (Shutter 4550x5670 mm). |
| - Test report n°CET00032396 | issued by the CETIM (Shutter 6000x4800 mm, 3120x2830 mm, 4000x2555 mm). |

Essential characteristics	Performance	Technical specifications
Water tightness	NPD	
Emission of dangerous substances	Passed	Complies with § 4.2.9 of standard NF EN 13241 + A2
Resistance to wind load	1 to 4	Class 4 : 3400x5000 mm
Thermal resistance (if applicable)	NPD	
Air permeability	NPD	
Opens in complete safety	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Definition of the geometry of glass components	NPD	
Mechanical resistance and stability	Passed	Complies with § 4.2.3 of standard NF EN 13241 + A2
Operating forces (for motorized doors)	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Durability of water tightness, thermal resistance and air permeability with regard to deterioration	NPD	

February 01, 2018

Tugdual DAVID
Product Manager



Declaration of performance

N°1310-RPC-IS

We, the undersigned, FTFM LA TOULOUSAINE, located in Escalquens (31676 Labège Cedex), declare that the products listed below comply with Annex ZA of standard NF EN 13241 + A2. Doors and gates for industrial and commercial premises and garages. (Products without fire or smoke protection features).

The main intended use is to provide safe access to goods and vehicles that are accompanied or driven by persons in commercial or industrial premises, or in public or residential buildings.

- The products concerned : The CETIM n°0526, CSTB n°0679, IFT n°0757 have carried out the following tests required by the standard according to system 3.

- | | |
|---|---|
| - Test report n°BV10-655 | issued by the CSTB (Shutter 3050x2789 mm). |
| - Test report n°BV13-986 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-987 | issued by the CSTB (Shutter 6000x4200 mm). |
| - Test report n°BV13-988 | issued by the CSTB (Shutter 6000x4800 mm). |
| - Test report n°24028350 | issued by the IFT Rosenheim (Shutter 3500x3000 mm). |
| - Test report n°40628630/2 | issued by the IFT Rosenheim (Shutter 2000x2000 mm). |
| - Test report n°781395/150080 partial 5 | issued by the CETIM (Shutter 9830x2600 mm). |
| - Test report n°BV16-1437 C | issued by the CSTB (Shutter 6220x4030 mm). |

Essential characteristics	Performance	Technical specifications
Water tightness	NPD	
Emission of dangerous substances	Passed	Complies with § 4.2.9 of standard NF EN 13241 + A2
Resistance to wind load	1 to 4	Class 3 : 3500x3000 mm with Hurricane hooks
Thermal resistance (if applicable)		U = 3.6 W/(m².K) : 2000x2000 mm
Air permeability	NPD	
Opens in complete safety	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Definition of the geometry of glass components	NPD	
Mechanical resistance and stability	Passed	Complies with § 4.2.3 of standard NF EN 13241 + A2
Operating forces (for motorized doors)	Passed	Complies with § 4.3.3 of standard NF EN 13241 + A2
Durability of water tightness, thermal resistance and air permeability with regard to deterioration	NPD	

February 01, 2018

Tugdual DAVID
Product Manager



