

Automatically controlled movement **MCA**

The name of MCA has gathered over 13 years of experience, 90 persons involved in the production and distribution activities and the continuous desire of improvement.

The product offer is improved and extended with assembly services, technical support and specialized service.

The development strategy is directed towards establishing partnerships with the architecture bureaus, construction companies and entrepreneurs.

The products that we can provide in a high quality condition, good prices and with short delivery term are:

- Sectional and roller garage doors
- Industrial sectional doors
- Dock levellers and dock seals
- Fireproof doors and industrial roller shutters
- Automation systems for gates
- Window roller shutters
- Insect nets.

Industrial sectional doors **MCA**



■ MCA România
Sos. Giurgiului 33A, Jilava, Jud. Ilfov
Tel: +40-(21)-457.00.03
Fax: +40-(21)-457.00.04
www.MCAgrup.ro
office@MCAgrup.ro

■ MCA Belgium
Rue Churchill, 26, 4624 Romsée
Tél: +32 (0)4.355.33.06
Gsm: +32(0)498.563.367
Fax: +32 (0)4.355.33.07

■ MCA Bulgaria
348 Botevgradsko Shose Blvd.
Sofia 1839
Tel: +35 929 45.10.15
Fax: +35 929 45.22.66

■ MCA France
Bd. De Lery, Bp 35
83180 Six Fours Les Plages Cedex
Tel: +33 617.97.56.07

■ MCA Republica Moldova
Str. Vasile Lupu Nr.18, Chişinău
Telefon : +37 379.70.94.00

■ MCA Srbija
Stevana Stevanovica 4,
11262 Velika Mostanica, Belgrade
Tel/Fax: +38 111 807.61.36
Mob.: +38 160 341.05.06

0103_UIS_EN_06 11



www.mcagrup.ro



INDUSTRIAL SECTIONAL DOORS

Quality is our main value



QUALITY - BEFORE EVERYTHING

The materials used to produce the MCA industrial sectional doors are of the best quality: sandwich panels made of galvanized steel sheets and painted in electrostatic field, sliding guides and accessories made of galvanized steel sheets, sliding rollers made of stainless steel, EPDM gaskets, extruded aluminum profiles. The thickness of the steel sheet is 0.7 mm for FLUSH panels and 0.5mm for RIB panels.



THE QUALITY MANAGEMENT SYSTEM IS CERTIFIED SR EN ISO 9001:2008

Continually improving the quality is one of the main objectives of MCA. TÜVRheinland is a German leading company that certifies that the Quality Management System of MCA Romania complies with SR EN ISO9001.



DEVELOPMENT AND RESEARCH

The R&D department is continually striving to improve the quality of the products and find new solution for meeting our customers' demands and increase the safety during operation.



RELIABLE SAFETY SYSTEMS

Special safety systems are used for protection during usage: springs safety system (will prevent door falling in case of spring failure); cable breakage safety system, light barrier with photocells, safety edge system, expected operator safety systems (if the door meets an obstacle the operator stops and lifts the door).



PRODUCTION TIME

The production time for doors with standard panels is made within 7 days and can be delivered either from the factory storage house, or can be shipped all over the world.

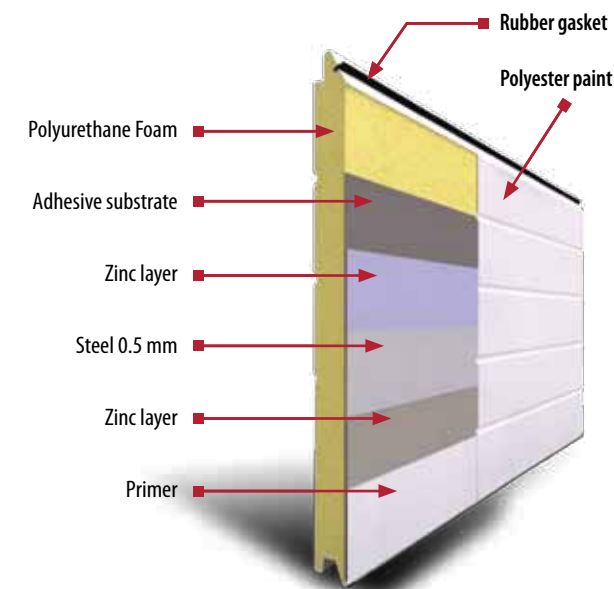


EFFICIENT THERMAL INSULATION



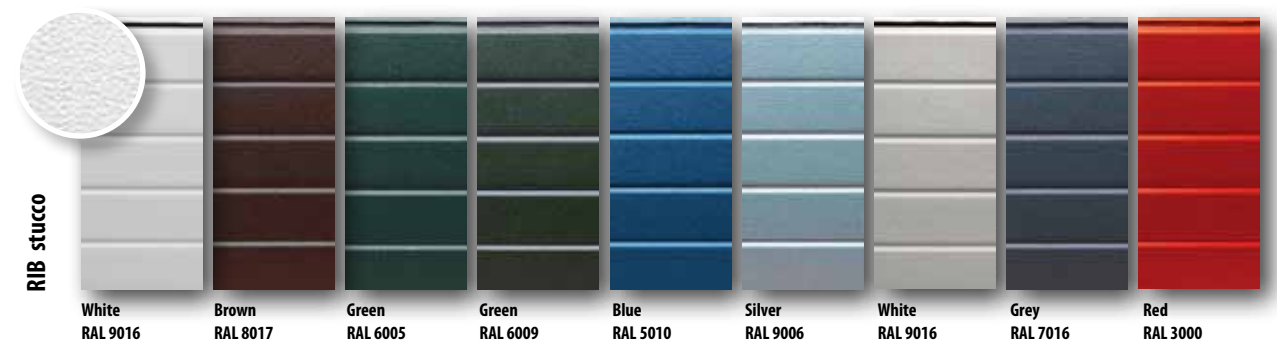
Sectional door panels

MCA SECTIONAL DOOR PANEL FEATURES



- Thermal insulation**
 The panels are filled with polyurethane foam with excellent insulating properties. At the same thickness the foam gives a double degree of insulation comparing with polystyrene.
- Mechanical strength**
 Galvanized steel sheet panels filled with 40 mm polyurethane foam. In case of the embossed (woodgrain, stucco) panels the steel sheet has 0.5 mm thickness and in case of the slick panels the sheet has 0.7 mm thickness.
- Anti-finger grip**
 The shape of the panels has been designed to avoid trapping fingers when it is manually operated.
- Uniform color and resistant.**
 Through the painting process, the color layer is applied evenly and lasting through the whole panel surface.
- Corrosion Resistance**
 The steel that panels are made of is protected against oxidation with layers of zinc (galvanized steel).

SECTIONAL DOOR PANELS - TYPES AND COLORS



BUILT FOR A LIFETIME

Galvanized steel sheet panels filled with 40 mm polyurethane foam. In case of the embossed (woodgrain, stucco) panels, the steel sheet has 0.5 mm thickness and in case of the slick panels, the sheet has 0.7 mm thickness.



ANY COLOR IS POSSIBLE

The slick panels can be painted in any RAL color in order to harmonize the sectional doors with the façade of the building.



SAFETY SYSTEMS



CABLE FAILURE SAFETY SYSTEM

MCA industrial sectional doors meet the highest standards of safety. Cable failure safety system is standard installed at all sectional doors manufactured by MCA.

In the unlikely event of cable failure, the safety system is triggered automatically. This system prevents injury by falling door. When a cable breaks a steel blade stops the door falling.



SPRINGS FAILURE SAFETY SYSTEMS

All MCA industrial sectional doors have galvanized steel torsion springs. Springs are calculated for the size, weight and average daily usage. Springs have a very important role in the usage of a sectional door. Their role is to keep in balance the door, regardless of the position where the door was left. In the unlikely event of spring breakage an automatic door lock system is activated instantaneously. This ensures reliability and safe operation.



SAFETY EDGE SYSTEM

Industrial sectional doors can be equipped with safety edge system. This system is composed of an optical sensor installed in balloon-type seal that is mounted in the lower edge of the door. If the light beam is interrupted as a result of meeting an obstacle, a door stop command is instantly transmitted to the operator.



PHOTOCELL SAFETY SYSTEM

Optionally, industrial sectional doors can be accessorized with a photocell system. The interruption of the light circuit made by the two sensors mounted on the poles of the door will automatically stop the descent door.



WICKET DOORS

Types of wicket doors



WICKET DOORS

Industrial sectional doors generally have large surface and opening it completely is not always necessary. For this reason, a wicket door can be installed. There are two types of wicket doors, with a narrow threshold and with high threshold (15 cm).

WICKET DOORS WITH NARROW THRESHOLD

The threshold is integrated into the sectional door and it being lifted with the door. Although it is very narrow, the threshold is very resistant. Sectional doors with narrow threshold allow easy access into the production area without opening the entire sectional door. The threshold has two rubber seals for optimum thermal insulation.



INDUSTRIAL SECTIONAL DOORS GLAZING

More light, more transparency



GLAZING FOR SECTIONAL DOORS

One of the most common requests for industrial sectional doors is the door glazing. Whether you want to use natural light, or transparency is the goal of the architect, the doors can be made according to the architects' designs. The ultimate glazing technology is the sectional doors are the wicket doors with a narrow threshold in fully glazed sectional doors.

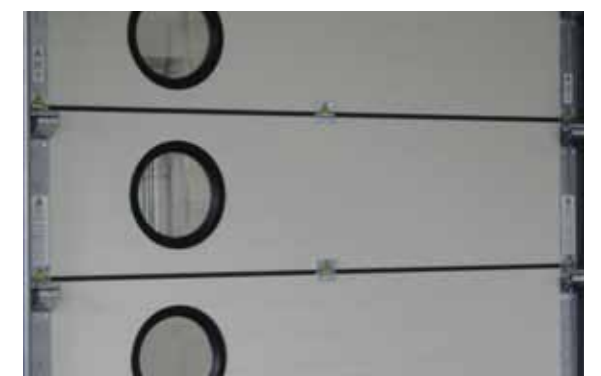


Industrial door fully glazed with wicket door with narrow threshold.

GLAZING TYPES



640x340/610x140 rectangular windows (black)



round window or oval 725x325 D = 330 (black)

SLIDING SYSTEMS



Common features

SECTIONAL DOOR PANELS

All the doors are using the same panels. They are filled with polyurethane foam with excellent insulating properties. At the same thickness the foam gives a double degree of insulation comparing with polystyrene. Galvanized steel sheet panels are filled with 40 mm polyurethane foam. In case of the embossed (woodgrain, stucco) panels the steel sheet has 0.5 mm thickness and in case of the slick panels the sheet has 0.7 mm thickness.

RELIABLE SAFETY SYSTEMS

All the doors have a standard configuration regarding the safety systems. All the doors have spring failures safety system and cable failure safety system. These systems prevent the falling of the door in the unlikely event of failing either the springs or the cables. For electrically operated doors there is a safety system that is measuring the force in order to stop the operator in case of detection of an obstacle. Optionally, for electrically operated doors, Safety Edge System and Photocells System can be integrated.

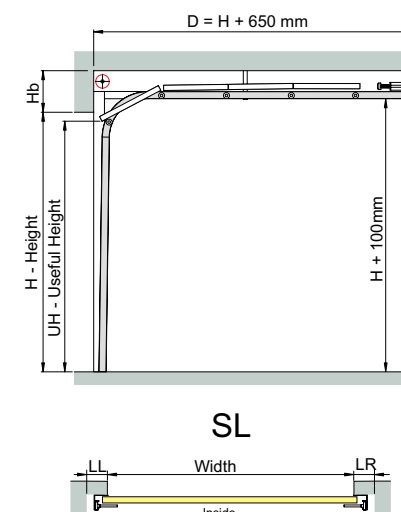
WICKET DOORS

Wicket doors can be fitted into any industrial sectional door. There are some restrictions regarding the position of the wicket door inside the sectional door. In addition a narrow threshold wicket door can be integrated into the sectional door for access inside without lifting the entire sectional door. The threshold is lifted with the sectional door. Although it is very narrow, the threshold is very resistant. The threshold has two rubber seals for optimum thermal insulation.

DEVELOP NEW SOLUTIONS

The MCA technical engineers are working continuously to find solutions to the clients' demands and improve the quality of the products. Meeting the customers' demands makes the difference between MCA and other sectional door manufacturers. Investing in research and development is the reason for which MCA became the #1 sectional doors manufacturer in the Balkans area, Romania and Hungary.

STANDARD LIFT

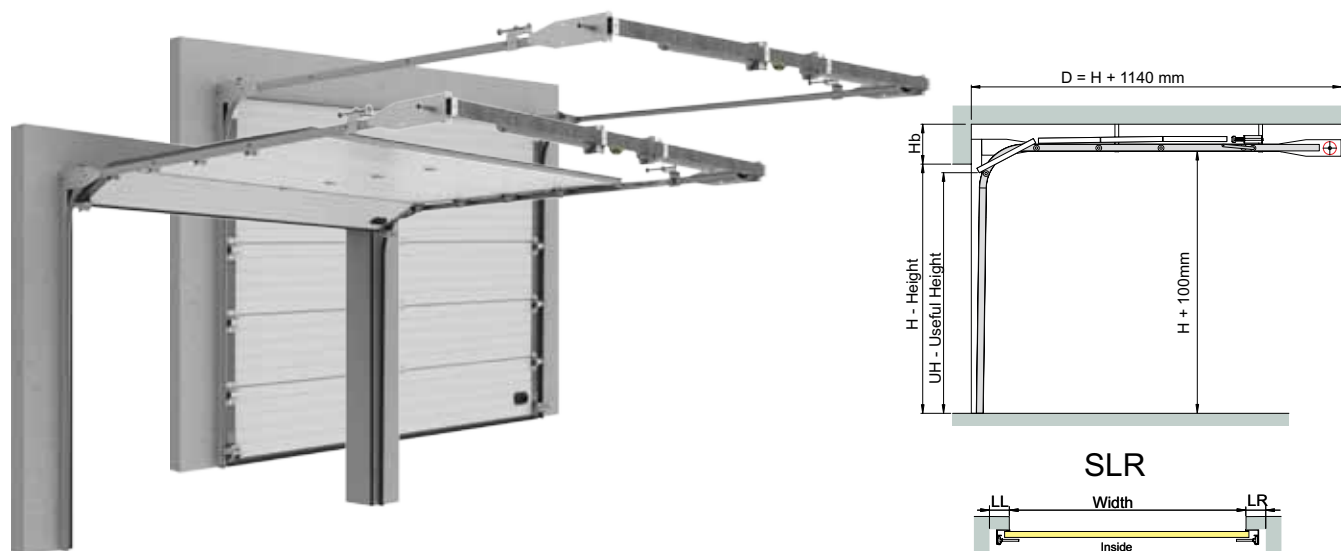


STANDARD LIFT (SL)

The StandardLift sliding rail system is the most usually solution for sectional industrial doors. The springs systems in mounted on the beam.



STANDARD LIFT REAR

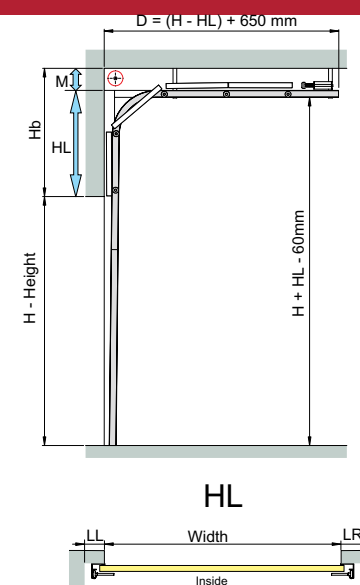


STANDARD LIFT REAR (SLR)

The Standard Lift Rear sliding system is designed to be applied in cases where the beam is very short. In order to overcome this issue the spring are mouted in the rear of the sliding tracks.

The spring failure safety system is installed also in the back of the tracks.

HIGH LIFT



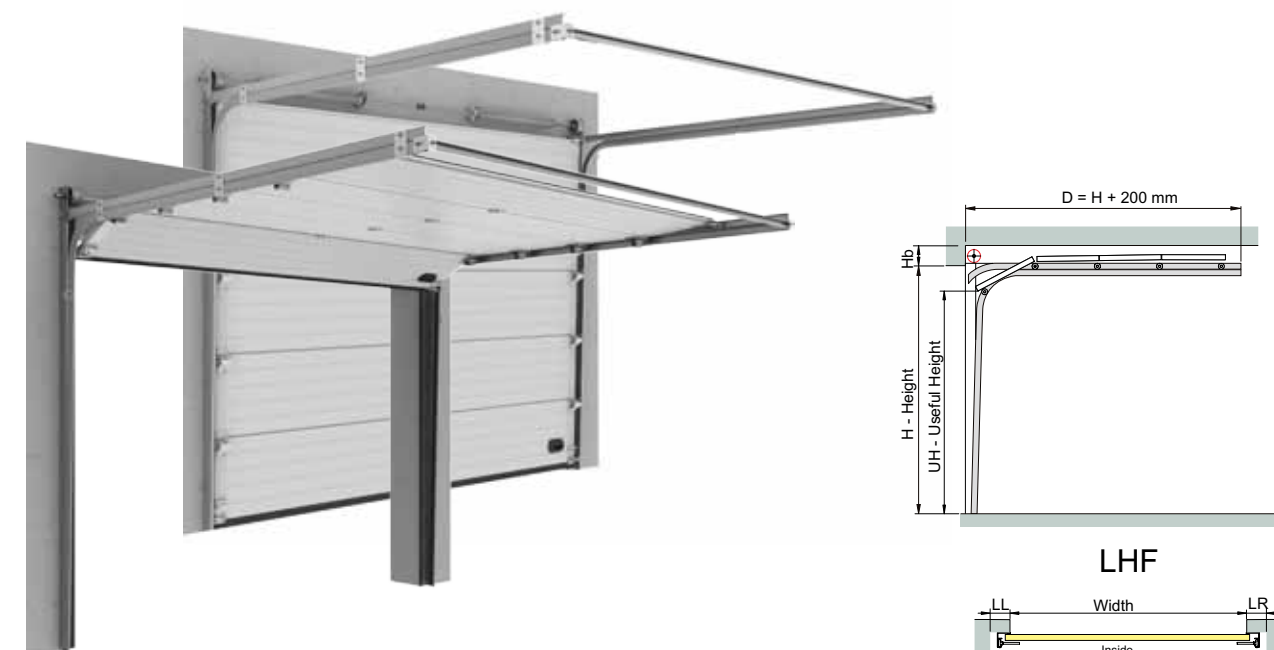
HIGH LIFT (HL)

The HighLift system designed in order to make more efficient use of the production space, thus sliding the door parallel with the beam, and then turning it at 90° running parallel with the roof.



If the beam space has height is greater than 420mm, the difference is exactly dimension of the HighLift (HL). It is the optimal solution for the efficient usage of space, for high beams. **M** (420 mm) is the minimum space required for installation springs and operator in case of electric drive, or gearbox with chain, for manual operation.

LOW HEADROOM FRONT

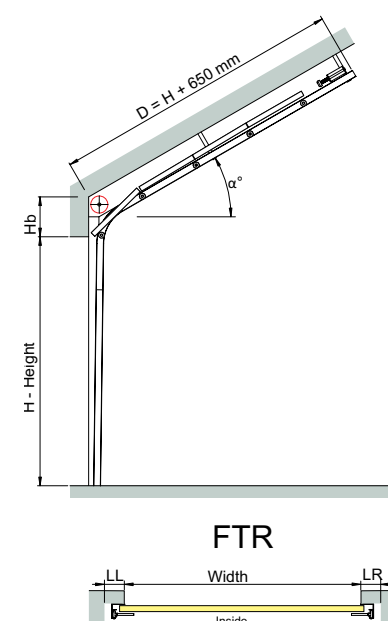


LOW HEADROOM FRONT (LHF)

The Low Headroom Front sliding system is designed to be applied in cases where the beam is not big. The springs are mounted on the beam and the upper part of the track is doubled.

Excepting the first panel, all the panels are running on the second track of the upper part of the sliding system. The useful room is shorter than the total height of the door opening.

FOLLOWING THE ROOF



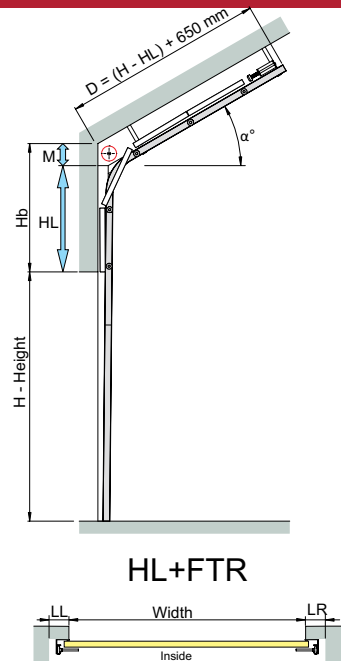
FOLLOWING THE ROOF (FTR)

The Following The Roof system was designed for industrial spaces with sloping ceilings, but without high beam. This system follows the roof angle.



System used in areas with sloping ceiling, allow slopes of up to 45°. This ensures an aesthetically and practically system. There are no bars or cables that descend from the ceiling support.

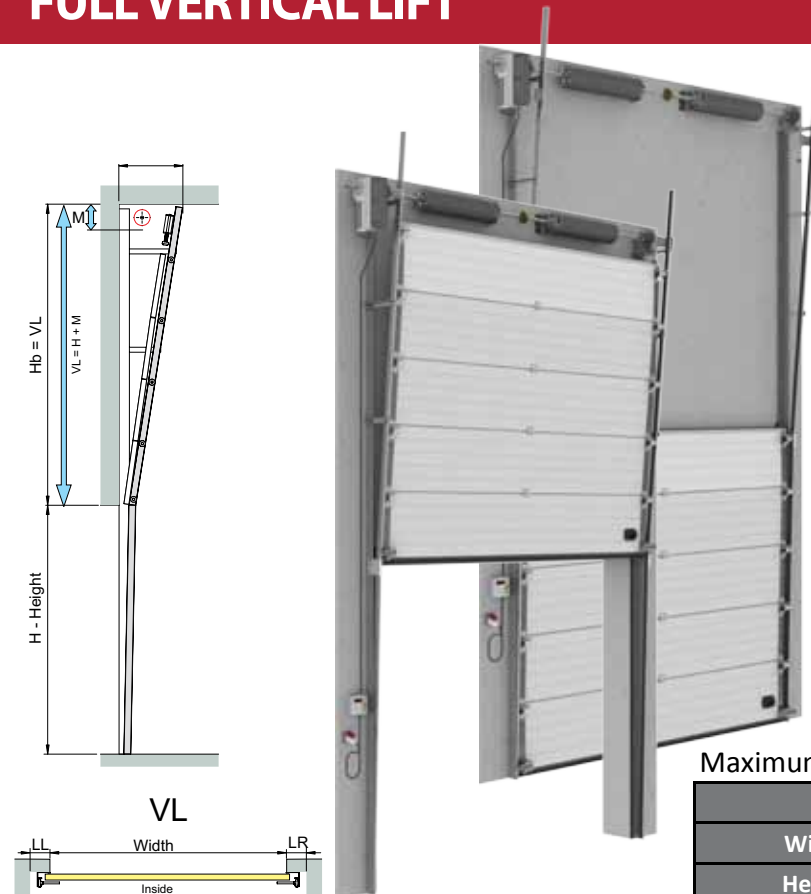
HIGH LIFT + FOLLOWING THE ROOF



HIGH LIFT + FOLLOWING THE ROOF
The HighLift+Following The Roof systems is a combination between the two systems. This combination aims a more efficient use of space and it is a versatile system that meets the demands of the customers.

If the beam greater than 420 mm and the ceiling is angled, using this system will maximize the efficiency of space. Elevation is determined by the difference between the height of the beam and spring mounting space, **M** (420 mm). The system allows the ceiling angles up to 45°.

FULL VERTICAL LIFT



VERTICAL LIFT (VL)
the Vertical Lift system is most commonly used in very tall industrial buildings, allowing the vertical lifting of the door. This is useful in production spaces where are cranes and other tall production machines that need get very close to the door.
In order to install a VerticalLift system, the beam should be greater than the double height of the door + 670mm. The door will slide almost parallel with the beam.

Maximum dimensions for industrial garage doors

	Maxim	Minim
Width[mm]	8000	1300
Height[mm]	6790	1600
Surface[sqm]	35	-

Industrial Sectional doors - dimensions and requirements

Width	Height	Type Sliding system	Hb			M	D	LL/LR			HL	UH	
			Manual	Chain hoist	Electric			Manual	Chain hoist	Electric		Manual	Chain/EL op
W<=5000	H<3000	LHF	240	280	260	Hb	H+200	100/100	100/250	100/350		H-100	H-30
		SL	280	320	320	Hb	H+650	100/100	100/250	100/350		H-120	H-30
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H
	H = 3000÷3500	LHF	350	350	350	Hb	H+200	100/100	100/250	100/350		H	H
		SL	420	420	420	Hb	H+650	100/100	100/250	100/350		H-150	H
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H
	H>3500	LHF	420	420	420	Hb	H+650	100/100	100/250	100/350		H-150	H
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H
W > 5000	H<3000	LHF	280	280	280	Hb	H+200	100/100	100/250	100/350		H-100	H-30
		SL	320	320	320	Hb	H+650	100/100	100/250	100/350		H-120	H-130
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
	H = 3000÷3500	VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H
		LHF	350	350	350	Hb	H+200	100/100	100/250	100/350		H	H
		SL	420	420	420	Hb	H+650	100/100	100/250	100/350		H-150	H
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
	H>3500	HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H
		LHF	420	420	420	Hb	H+650	100/100	100/250	100/350		H-150	H
		SL-R	190	190	190	Hb	H+1140	100/100	100/250	100/350		H	H
		FTR*	420	420	420	Hb	H+650	100/100	100/250	100/350		H	H
		HL	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		HL+FTR	HL+M	HL+M	HL+M	420	H-HL+650	100/100	100/250	100/350	Hb-M	H	H
		VL	H+M	H+M	H+M	420	500	100/100	100/250	100/350		H	H

MOTOARE UȘI SECȚIONALE INDUSTRIALE



	MARANTEC		MARANTEC		Gfa Elektromaten		Gfa Elektromaten	
	XS BASE 60/24	XS BASE 95/19	XS Plus 60/24	XS Plus 95/19	TSE 5.24 – 25.4 WS	SE 9.24 – 25.4 WS 900	SE 5.24 – 25.4 WS	SE 9.24 – 25.4 T961
Drive torque (Nm)	60	95	60	95	50	90	50	90
Speed rpm.	24	19	24	19	24	24	24	24
Door surface / door weight	20sqm / 250 kg	45 sqm / 550 kg	20sqm / 250 kg	45 sqm / 550 kg	20sqm / 250 kg	45 sqm / 550 kg	20sqm / 250 kg	45 sqm / 550 kg
Working cycle %	25	60	25	60	40	60	40	60
Power (V/AC)	230	380	230	380	230	380	230	380
Temperature (C°)	-20...+60		-20...+60		-5 - +40		-5 - +40	
Protection class	IP65		IP65		IP 54		IP 54	
Axis	25,4		25,4		25,4		25,4	
Input for photocells	No		Yes		No Yes		Yes	
Control panel	Yes		Yes		Yes		Yes	
Entry for safety edge	No		Yes		No		Yes	
Output for warning light	No		Yes		No		Yes	
Input for remote control unit	No		Yes		No		Yes	
Traffic control	No		Red		No		No Red	
Chain operation	Yes		Yes		Yes		Yes	

CONTROL PANEL

Each door automation kit comes as standard with a control panel.



REMOTE CONTROL

Optionally, industrial sectional doors can be operated by a remote control. This requires the installation of a radio receiver.



SAFETY EDGE

The electric doors can equipped with an optical sensor in the bottom edge.



TRAFIC LIGHTS

In common parking lots traffic lights can be installed to control traffic and avoid bottlenecks.



PHOTOCELLS

Photocells system can be mounted on the side pillars. The system will stop the descending of the door if an obstacle is detected.



GEAR CHAIN

The doors that are higher than 4 m are fitted with a gear chain to operate them in case of a power failure.





DOCK SHELTERS

The flexible frame dock shelter are designed for general use in warehouses applications, logistics centres and all types of distribution facilities. The dock shelter will provide a comprehensive environmental seal for conventional containerised vehicles. The construction will include a wear resistant 3 mm PVC curtain surround mounted to a profiled aluminium structure. The structure will withstand collision impact from misguided vehicles.

COMPOSITION

The retractable dock shelter consists of the following elements:

- **STRUCTURE:** it is manufactured in galvanized tube of 2 mm jointed between them by some bars with zinc, all of them covered by PVC of 8 mm thickness with high resistance due to an interior net of flexible polyester. The cover is fastened to the structure through an anodized aluminium outliner.
- **COVERS:** formed the joint of two lateral covers which take some serigraphy strips for helping with the vehicle manoeuvre and a superior cover forming the roof. These covers are manufactured by two polyester fabrics with flexible wefts to facilitate the flexion and they are covered with black PVC and 3 mm of thickness. They are resistant to blows and scratching. The superior cover has a reinforcement welded to avoid tears with the usage and to increase its durability.

FLEXIBILITY AND INSULATION

The retractable dock shelter cover is designed specially for providing an adding flexibility to the loading and unloading manoeuvres of vehicles of different dimensions. In the moment of goods transferring, it also isolates the installation from the exterior saving energy and increasing the comfort of the working area.

DOCK LEVELLERS

The electro-hydraulic Dock Leveller is used to cover the distances between the loading areas and the truck bed during on and off-loading. At the same time they save the existing differences of height between truck bed and loading ramp.

The electro-hydraulic dock leveller consists of an inferior base frame, which supports the rest of the other components installed on it. The superior platform, which is articulated on its rear part, is installed on the inferior base, thus to achieve the necessary inclination to ease the correct on and off-loading process. Additionally it has a swinging lip on its front part which allows the access between leveller and truck bed.

The leveller is operated by a control box and works with a hydraulic powerpack. It is prepared to support dynamic loads of 6 tons and static loads of 10 tons. To assure its durability, first it is completely degreased, then painted with primer and afterwards with polyurethane painting.