

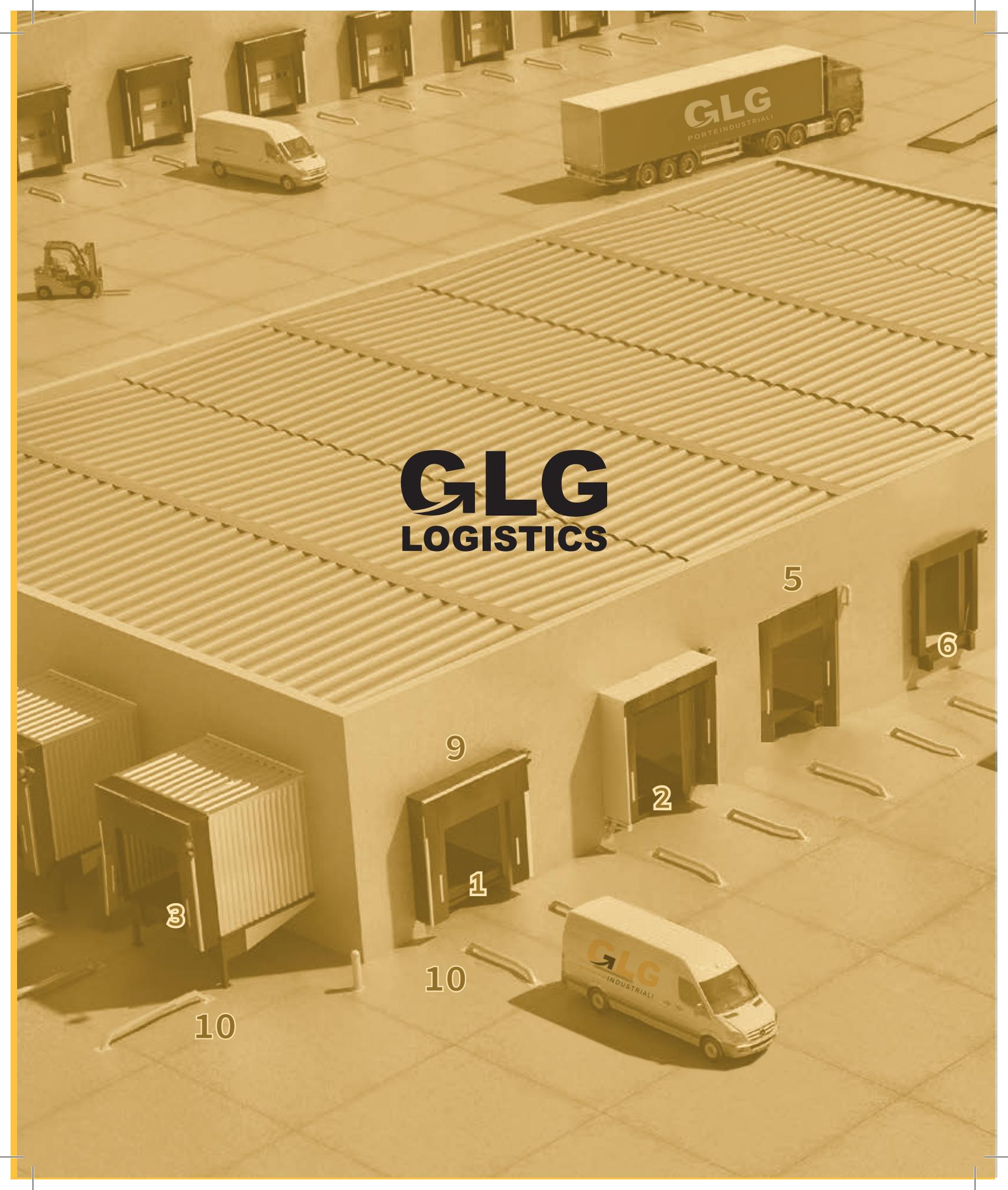


GLG

PORTE INDUSTRIALI



LOGISTICS



GLG
LOGISTICS

The image shows an aerial view of a large industrial facility with a corrugated metal roof. The facility has several loading docks and doors. A large semi-trailer truck with the GLG logo is parked at a dock in the upper right. A white van is parked at a dock in the lower right. A forklift is visible on the left side. The facility is surrounded by a paved area with several loading docks. The numbers 1 through 10 are placed at various locations around the facility, likely indicating specific areas of interest or components.

5

6

9

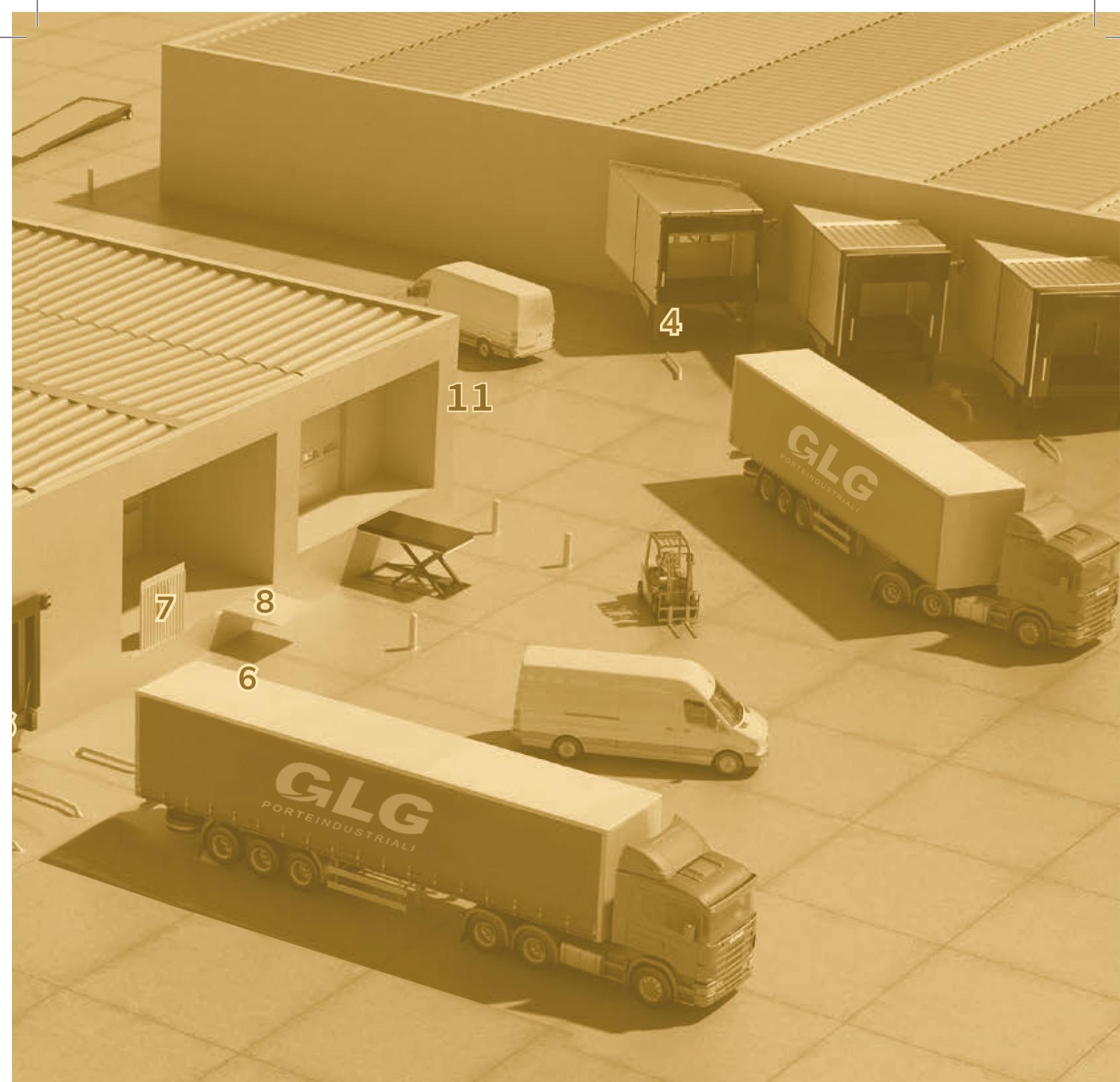
2

1

8

10

10



01. Standard Dock leveller

02. Bridge Dock leveller swivelling lip

03. TDL Hydraulic Dock leveller with telescopic lip

04. Mini Dock leveller

05. DSH-C Inflatable Dock shelter

06. DSH-I Mechanical cushion seal Dock shelter

07. Steel platform

08. Aluminium platform

09. DSH-R Mechanical Dock shelter

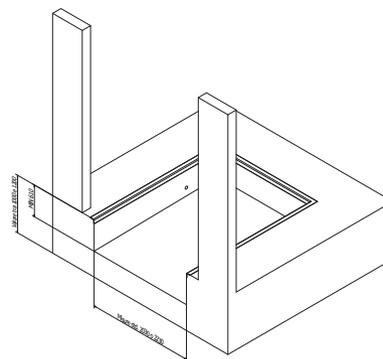
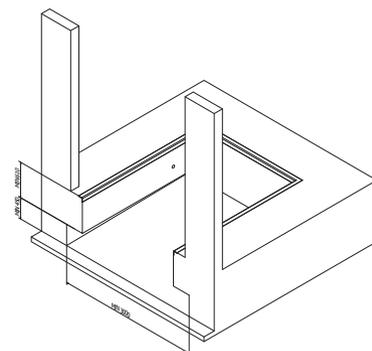
10. Wheel guides

11. Sectional overhead door

SDL Bridge Dock Leveller swivelling lip



PLATFORMS SIZES*	2000x2500	2000x3000	2200x2500	2200x3000
Pit dimensions width	2030	2030	2230	2230
Pit dimensions length	2480	2980	2480	2980
Pit dimensions height	610	610	610	610
Lip length	400	400	400	400
Positive excursion (P)	320	380	320	380
Negative excursion (N)	270	270	270	270
Estimated weights (Kg)	675	810	743	891
Platform Height only for transport	380	380	380	380



*All dimensions are in mm.

On mm 2200 wide docks, side flaps on lip are standard.

- Frame made of electrically welded steel, to be enclosed in a specific pit.
- Rotating steel lip, thickness 120/10, hinged on the platform, available in 1 segment or 3 segments. The lateral segments can be manually folded to adapt the width of the dock leveller to the truck loading bed. The total length of the lip is 360 mm.
- Platform realized with anti-slip embossed steel, thickness 60/10 reinforced on the lower side by 6 welded OMEGAS in cold rolled steel, thickness 3 mm with dimensions of 180 x 120mm and by a central press bended "C" steel profile.
- Anti-shearing side sheets hinged on the platform.
- Lateral black and yellow safety stripes indicating the ramp movement.
- Ral 5010 (blue) epoxy powder coating, highly wear resistant. Prior to painting all materials are treated with chemical pickling and phosphatization.
- Rubber bumpers to be installed on the loading platform.
- The dock leveller is actuated by hydraulic pistons: two "simple effect" pistons for the excursion of the platform and one double effect piston for the lip rotation.
- Hydraulic control unit positioned under the platform with the following technical specifications:
 - * *Power: 0,75 KW*
 - * *Nominal voltage: 3Phase - 400V, 50 Hz*
 - * *Electrical absorbtion: 1,8 A*
 - * *Rotation per minute: 2800 rpm/min.*
 - * *cos ϕ : 0,84*
- Electric control unit equipped with a main switch, power pilot light and a pushbutton to operate the dock leveller platform.
- Control box IP grade 54
- Equipped with 10 mt. of cable.
- Low voltage main controls (24 V).
- The ramp, positioned in open pit and not needing support, enables easy access for underneath maintenance operations and provides the possibility of housing truck tail-lift.
- **Loading capacity 6000Kg. - in accordance with EN 1398**

GS MINI Leveller



Nominal width (NW):	1750 mm	2000 mm
Swivelling lip:	400 mm	
Rated Load Capacity:	4, 6 ton (40, 60kN) EN1398	

Options: Steel lip. Hot dip galvanizing

The GS mechanical MINI dock leveller is an economical solution for loading and unloading vehicles with minimal height differences between the truck bed and the dock. This makes it the perfect solution for situations where the delivery vehicle is the same for the entire fleet.

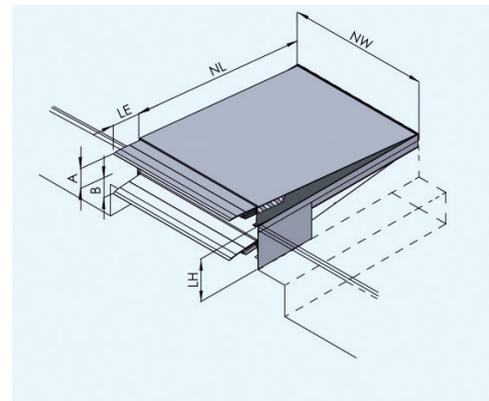
Mini dock levellers either manual or motorised are counter-balanced by gas springs, the economical solution for loading and unloading vehicles with minimal height differences between the truck bed and the dock. This makes it the ideal solution whereas delivery vehicles have the same dimensions per fleet.

The manual dock levellers are built in compliance with EN 1398 product standards, complete with CE marking.

Max excursion +/- 100 mm (EN 1398 norm states max inclination must be 12,5%).

GLG Hydraulic Dock Leveller with Telescopic Lip

GLG Hydraulic Dock Leveller with Telescopic Lip is the ideal solution when positioning the lip on the back of the vehicle must be precise. Thanks to the extendable and retractable lip, you can achieve a larger reach and place the lip in the most effective position to allow safe and efficient loading and unloading of the vehicle while compensating for the height difference between the vehicle and the building.



Nominal width	2000	2200	
Nominal length	2500/3000	2500/3000	
Leveller heights	600	700	800
Lip lengths	500	1000	
Rated load capacity	6 ton according to EN1398		
Operating ranges above the level (A)	0-590 mm		
Operating ranges below the level (B)	0-480 mm		

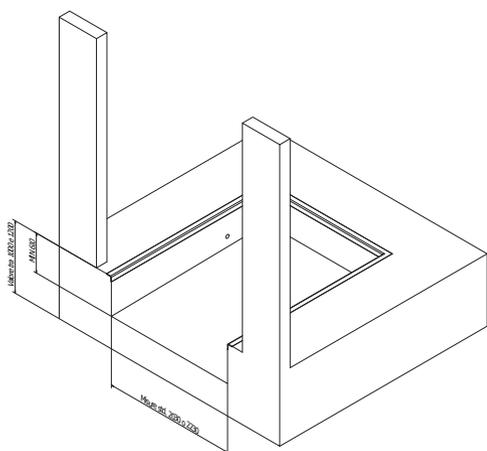
Options

- Anti-fall protection
- Anti-slip protective coating
- Side flaps on 125 mm lip
- 10/12 mm thickness of upper platform
- Hot dip galvanizing.

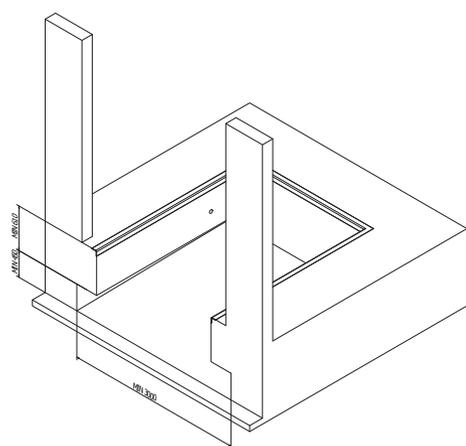
Frame types with levellers

Leveller frame to be welded in.

The frame can be mounted to the floor slab already before installation of the dock leveller.
The leveller is then just welded to the pre-installed frame.

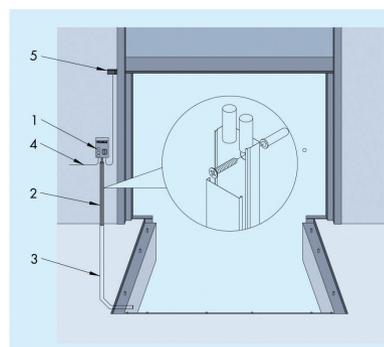


Standard concrete pit



Open pit with truck tail lift bottom opened

Electrical preparation



- 1 Electrical control unit (included)
- 2 Cable duct (to be provided)
- 3 Electrical duct, internal diameter min 50mm, cable angle $\geq 45^\circ$ (to be provided)
- 4 Main power supply: 3/N/PE AC 50 Hz 400 V/CE 16A

Main fuse:

DO 10 A gL

Motor power:

0,75 kW (PS) 1,5 kW (PT)

Cable:

3 x 0,75 mm²

7 x 0,75 mm² (PT)

Motor cable:

4 x 1,5 mm²

5 sensors door/dock leveller *

Sectional doors

Sectional doors optimize the use of volumes of buildings due to vertical sliding of either manual or motorized openings.

These doors are made of double sheet steel panels, insulated by expanded polyurethane (available in 40 or 60 mm thickness).

EPDM gaskets guarantee excellent resistance to atmospheric agents.

Sectional doors guarantee a high thermal insulation.

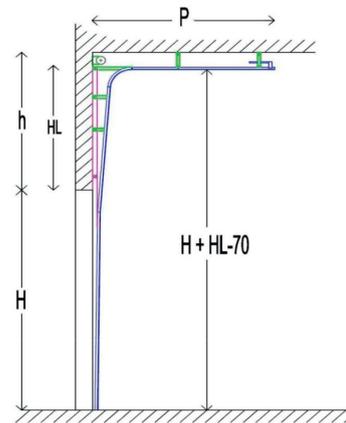
Various door customizations and colors are available.



SectionalGO Sectional Overhead Doors

- Partially vertical sliding system single guide mod. GHL;
- Sliding guides in galvanized steel;
- Torsional spring group consisting of two springs, complete with splined shaft, safety device for parachute springs, brackets, adjustable joint, drums, calculated 20,000 cycles;
- Cable parachute safety device;
- Galvanized accessories (hinges, screws, roll holders, side boxes etc.);
- Lifting handle;
- Aluminum door-seal profiles on the lower and upper edge of the door;
- EPDM seals;
- Monolithic two-sided panel in galvanized and painted steel, insulated with polyurethane foam, 40 mm thick to guarantee thermal transmittance $U = 0.51 \text{ W / m}^2\text{K}$, internal side micronerved RIBBED embossed similar to RAL 9010, external side:
- LINE ST / ST 500/610 STRIPED embossed similar to RAL 9016

GHL GLG SECTIONAL OVERHEAD DOOR WITH PARTIALLY VERTICAL SLIDING SYSTEM



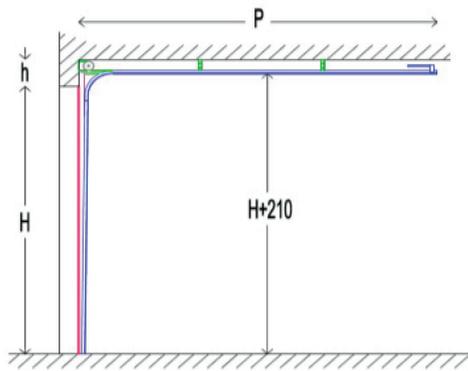
* Subtract 350 if $h > 3400$,
or when the door has a weight $> 454 \text{ Kg}$.
It subtracts 300 in all other cases.

Tip. GHL - partly vertical overhead door

Height	up to 6100
Lintel min h	630
Lintel max h	4050
High-Lift *HL	H+300 H+350
Side spaces for guides	120
Depth	H-HL+800
Clear passage	H

SectionalGO Single-guide Sectional Overhead Door

GMG INDUSTRIAL SECTIONAL OVERHEAD DOOR



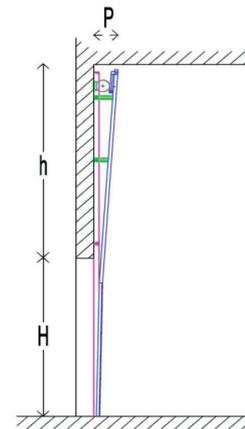
Doors having weight > 454 Kg need 550 mm minimal height

Tip. GMG - mono-guide sectional overhead door

Height	up to 5500 5501+9750
Lintel	450 550
Side spaces for guides	120
Depth	H+600
Clear passage	H

All dimensions are in mm.

GVL GLG VERTICAL LIFT INDUSTRIAL SECTIONAL OVERHEAD DOOR



Tip. GVL - vertical lift sectional overhead door

Height	up to 3350 up to 5500 up to 8540
Lintel	H+600
Side spaces for guides	120
Depth	425 475 575
Clear passage	H

All dimensions are in mm.

DSH-R Mechanical Dock Shelter

Both dock and ground retractable GLG shelters are designed for the protection of workers and goods against atmospheric agents such as rain, wind and sun. We enhance “simple” products by using high quality material.



The DSH-R Mechanical Dock Shelter is an economical solution to seal the gaps which inevitably occur between the docking vehicle and the warehouse opening.

The front and the rear frames of the DSH-R are made up of high-stability extruded aluminum sections which are connected to each other by bracing arms. The curtain is 4 mm thick, made of a highly durable, double-layer of PVC-coated material and is mounted on a flexible frame. Thanks to the adaptable roof and the parallel guide systems the front structure moves backwards in the event of inaccurate docking, helping prevent damage to the dock shelter. The side curtains of the dock shelter come with warning stripes to help with the docking process. An integrated rain channel allows lateral drainage of rainwater (optional).

Dock shelter

Height	Width
3400	3400
3400	3300
3400	3200

Ground dock shelter

Height	Width
4500	3400
4500	3300
4500	3200

Dock shelters DSH-I



The DSH-I Mechanical cushion Seal is designed for loading and unloading truck fleets with almost identical dimensions in width and height.

It guarantees perfect protection from draughts, rain and wind, preventing energy loss. The DSH-I is equipped with a horizontal cushion and two vertical cushions consisting of foam material completely covered by a PVC-coated high-resistance Trevira fabric. The dimensions of the dock seals are determined depending on the type of loading bay and vehicle to be loaded or unloaded. The DSH-I dock shelter is pre-assembled and comes in just three parts making installation to the façade quick and easy.

Dock shelters DSH-C



The DSH-C Inflatable Dock Shelter combines optimum sealing efficiency with the flexibility of use.

It has been designed to allow clients to maximise potential energy savings and who want to protect their goods against adverse weather conditions. The difference in size between the docking vehicle and the warehouse opening inevitably creates a gap and needs to be sealed. Inflatable cushions form a tight seal on the sides and top of the vehicle. This type of shelter is ideal for cold storage facilities and air-conditioned storage rooms. Using this type of shelter can result in significant energy savings, improvement of working and sanitary conditions, helping to increase staff productivity. In addition, unauthorized persons are not able to enter the warehouse unnoticed. Inflatable side and top cushions not only provide effective sealing around the vehicle, but also automatically adjust to the dimensions of the truck allowing an effective seal to be produced on different-sized vehicles.

Insulated Folding Doors

The **GLG FOLDING DOOR** without lower guide, is made up of 52 mm thick panels, with internal perimeter frame in galvanized steel, insulated with injected polyurethane foam with a density equal to 43 kg / mc, and covered with pre-painted smooth sheet metal. Thickness of 8/10 available in the various colors of the GLG range.

To protect the surface of the doors from scratches, an adhesive film is applied to be removed during the installation phase. The upper steel guide of 20/10 thickness is supplied in the standard version galvanized by tape; the aluminum side uprights are supplied with galvanized steel angles for fixing. The perfect movement of the doors is guaranteed by the hinges in aluminum alloy, black, complete with pin with anti-fall system and double thrust bearing; the upper carriages are three-wheeled in anti-noise nylon.

The closure of the door is guaranteed by

the black internal sliding locks, complete with galvanized tubular rods with high and low closing tape with reinforced tip and rod slides with PVC protection; the central floor closure is via a PVC strip.

The gaskets between the doors are in black EPDM natural rubber. In the upper and lower part of the doors, black aluminum profiles are fixed with a special joint for inserting the nylon brushes.

Available colours RAL:



GLG SLIDING DOOR

Sliding door without bottom rail are made of 52 mm thick panels, complete with internal perimeter frame of galvanized steel, insulated by polyurethane foam injected with density equal to 43 Kg / m³. Panel cladding is made of pre-painted smooth sheet metal, whose thickness is 8/10. Various colors of GLG range are available.

Panels are joined in their height by a "H" junction profile made of Aluminium (White

RAL 9002 with White or Grey door, Black for other door colours and assembled by "C" Aluminium profile in upper and lower parts (Black colours).

Door does not need any bottom rail. Movement is guided by a lower pilot trolley with 74 mm wheel equipped with bearings and plates to ground fixing.



Rolling Shutters

STANDARD ROLLING SHUTTER

The most economical traditional solution for closing and protecting medium and small openings. Different types of maneuvers: manual, with central motor, with lateral motor without compensation springs.

- Steel lath 110
- Available colours RAL 1013, 9002, 6005, 8019
- Thickness 8 /10; - 10/10
- Wind Load class 2 Max L. 4000

STORM SHUTTER

The storm shutter is the most economical solution for closing and protecting large openings (industrial plants, warehouses, and garages) or openings particularly exposed to atmospheric disturbances (wind action).

- Steel Lath Doga 95
- Available colours RAL 1013, 9002, 9010, 5010, 6005, 8019
- Thickness 8 /10; - 10/10
- Wind Load class 2 Max L. 9000 (up to L 15000 on request)



ROUND LATH ROLLING SHUTTER.

Rolling shutter with rounded elements in galvanized and prepainted steel, ideal for all types of closure. It is possible to customize it with your own logo and designs.

- Steel Lath B115
- Available colours RAL 1013, 9002, 9010, 5010, 6005, 8019
- Thickness 8 /10
- Wind Load class 2 Max L. 9000

SpiralGO high speed spiral insulated door



Specifications SpiralGO

Specifications

Applicable temp.		-35 °C ~ + 40 °C
Size	Width	1400mm ~ 5000mm
	Height	1800mm ~ 5000mm
Performance	Thermal insulation	$K \leq 0,5 \text{ W (m}^2 \cdot \text{K) Class 3}$
	Air permeability	$0,62 \text{ m}^3 / (\text{m}^2 \cdot \text{h) Class 8}$
	Water tightness	$\geq p \geq 700 \text{ pa Class 6}$
	Wind resistance	Up to national standard level 3 (relative deflection under 0.5kp wind pressure <L/180)
Speed	Opening	0.8m/s ~2m/s depending on the door size adjustable
	Closing	0.6m/s ~ adjustable

Drive & Control

Power	230 V / 400V
Motor	Self braking 3phase motor 1,5 / 2,2Kwatt with Absolute Encoder
Control	Frequency converter Inverter 230 V single-phase frequency inverter or 400 V three-phase according to door's dimensions. Control board inverter 230 V single-phase frequency or 400 V three-phase according to door's dimensions.
Emergency opening	In case of power failure, the control system can turn on the motor brake at any time, and can lift the door with the help of the balance system, which can effectively solve the problem that the door cannot be opened due to power failure or fault.

Safety Device

Optycal safety edge / light curtain	When there is an obstacle under the door, the door remains open; when the door goes down while an object is passing through, the door will go up to the open position, and when there is no obstacle below, the door will delay descent.
--------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Mechanical Structure

LIFTING WAY		ROUND SPIRAL, OVAL SPIRAL
Guide rail structure	Round spiral	Double spiral guide rail
	Oval spiral	Double spiral guide rail
Guide structure	Hinge shaft	QPQ treatment on the surface can enhance the self lubrication of the shaft and increase the corrosion resistance of the shaft which is 3-5 times of that of the galvanized shaft.
	Shaft sleeve	With PEEK (polyether ether copper) material, there is no molecular change in the temperature range of 200 °C to - 60 °C. The anti-wear degree is 10 times that of copper. It has self-lubricating function and is mainly used in the medical industry.
Door structure	Door lath material	The surface is treated, and the interior is filled with polyurethane (excluding CFC) industrial thermal insulation materials. The internationally advanced bridge breaking thermal insulation treatment scheme is adopted, which meets the domestic 7-level energy-saving door and window standards, and will not damage the ozone layer.
	Door lath size	Opening width (Length) *220mm (Height) *43mm (Thickness)
	Door lath colour	RAL7045 Grey, RAL9006 Silver, RAL9016 White, Aluminum natural colour
Transparent window	Material	Aluminum alloy frame with double-layer polycarbonate plate, double-layer structure design
	Size	Opening width (Length) *220mm (Height) *2mm
Column	Material	galvanised sheet steel
Head	Material	galvanised sheet steel
Bearing Shaft		The automatic core adjustment, self-adjusting and double needle roller bearing can quickly respond to the eccentric core transmission without abnormal noise.
Transmission Shaft		The transmission Shaft adopts the retractable spline transmission shaft, which is mostly used in the automobile transmission power, free of maintenance for life.



**Passion from
generation to
generation**

GLG was founded in 1983 as a company specialized in the production of industrial flexible doors and parts for maintaining and manufacturing industrial doors.

GLG developed experience on two different market fronts by cooperating with the leading resellers and supporting the main sector producers.

GLG is not just a company, but a great team of professional and motivated people, working together to offer the right product with the best performance.

Accessories and Service

GLG SERVICE
service@glgdoors.com



**Direct supply, maintenance,
after-sale with qualified
GLG Staff, on all brands'
equipment.**



Rubber Buffers
wide range of models
and type.



Wheel Guides
guarantee precise dock-in
at the loading bay.



Dock Lights



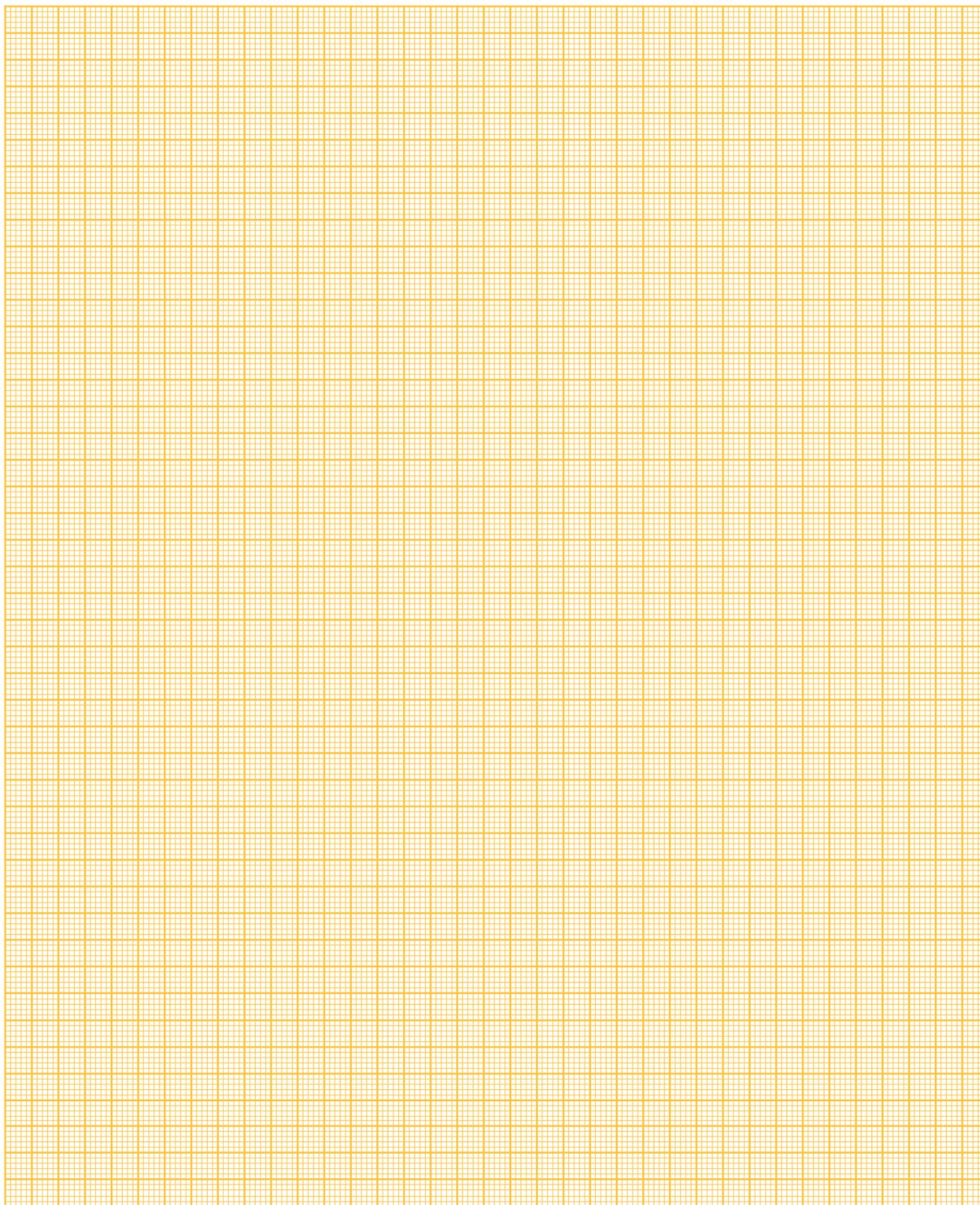
Steel Wheel Chock
This product guarantees safety
during the whole loading
and unloading process.



Traffic Lights

GLG REFERENCES

COMPANY	LOCATION	INDUSTRIAL SECTOR
Bristol Myers Squibb	Ireland	Chemical
Novartis	England	Chemical
Pharma5	Morocco	Chemical
PPG Industries	Italy	Chemical paint
Nestlé	Italy	Food
Coca Cola	Mexico	Food
Corona Brewery	Mexico	Food
Nestlé	Mexico	Food
Barilla	Italy	Food
Modelo Especial	Mexico/Caribbean	Food
Florette	Italy	Food
Bonduelle	Italy	Food
Monge	Italy	Pet Food
COOP	Italy/Netherlands	Large Retail
Ipercoop	Italy	Large Retail
BILLA	Bulgaria	Large Retail
Penny Market	Czech Republic	Large Retail
Esselunga	Italy	Large Retail
IKEA	Italy	Large Retail
Amazon	France	Logistics
TNT	England	Logistics
Gewiss	Italy	Electric Components
U-Storage	Mexico	General Store
British Airways	England	Airline
Emaar	Dubai	Real Estate
Ghottard Tunnel	Switzerland	Site Safety
National Custom	Panama	State Administration
Ferrari	Italy	Automotive
Lamborghini	Italy	Automotive
McLaren	Italy	Automotive
FCA	Italy/Brasil	Automotive
Maserati	Italy	Automotive
Calzedonia	Serbia	Fashion Brand
Conocophillips	England	Refinery
Philipp Morris	Senegal	Tobacco Company
Caleffi	Italy	Hydronic Solutions





Italy

Viale Italia, 15
28010 Caltignaga (NO)
T. +39 0321 43 79 13

info@glgdoors.com
glgdoors.com

GLG
Italy

GLG
Maroc

GLG
Polska

GLG
Germany

GLG
México

