SECTIONAL INDUSTRIAL DOOR

Description of the Product,

The R&D DOORS Industrial sectional door fabricated with the sandwich panel is one of the best options for the proper closing and functioning of the Industrial warehouses, factories and large sheds which enhances both thermal and acoustic insulation.

The sandwich panel door is constructed with sections of double sheet steel with injected insulation in 40mm Pre-designed with horizontal grooving and stucco type embossing, exterior and interior. White color similar to RAL 9010. Intermediate joints between sections. Top Seal, Bottom Seal and Side Seals in EPDM grade rubber. Bolted galvanized steel hinges, guide rails for ball-bearing, self-adjusting rollers. Profile guides, Z-200 galvanizing and weight compensation by torsion springs with side load cables, achieving a perfect balance of the door for both manual and automatic operation.

Drives: Direct drives to the shaft or with chain drive, for three-phase current 3 ~ Ph, 50 Hz, or single-phase 1 ~ Ph, 50 Hz, 60% ED, protection class IP 65, with chain emergency opening system and TÜV certificate.

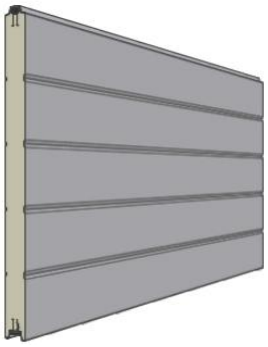
Control: CS 300 with special development for roller and sectional doors, optimally adapted to the requirements required in this sector, with fully developed microprocessor,
4 programmable relay outputs with 28 functions, integrated adjustable force limitation, final position adjustment Via absolute value transmitter, status and diagnostic messages, 24 V control voltage, IP 65 protection type.

SECTIONAL INDUSTRIAL DOOR

TECHNICAL SPECIFICATIONS

- STANDARD COLORS	RAL 9010 ,RAL 9006, RAL 5010,RAL 8014,RAL 3000,RAL 7016
- SPECIAL COLORES	ALL THE COLORS AS PER RAL.
-HEIGHT OF THE PANELS	500/610mm
TOTAL PANEL THICKNESS	40mm
-WEIGHT OF THE CURTAIN	+-13 Kg/M2
-WIND LOAD EN 12424	Clase 4 UPTO 4000 mm. Clase 3 UPTO 6000 mm. Clase 2 UPTO 9000 mm.
-WATER PERMEABILITY EN 12425	Clase 3
-ACOUSTIC INSULATION EN 717-1	24 dB
-COEFFECIENT TRANSMISSION THERMIC	U= 1.6 W/(m²K)

PANEL



OUTER SHEET

-Thickness 0,48 mm
-Galvanized Z225
-Pre-painted with polyester of thickness 25µ or PU Paint (Smooth Colors)
-Laminted with 115µ thickness of PVC Film. (Imitation Wood)

INNER SHEET

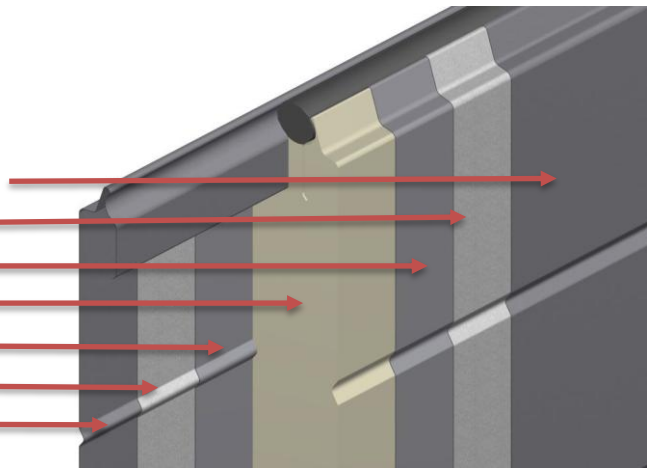
- Thickness 0,30mm
- Galvanized Z100
-Pre-painted with polyester of thickness 25µ
Film protector PVC
- thickness 25µ
- Heights quoted in mm:

PUR FOAM

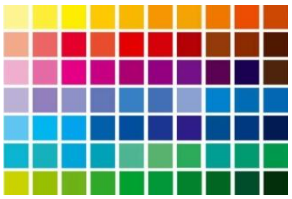
-Density 38 to 40Kg/m³
-Without HFC and CFC
-Seal: EPDM

CONSTRUCTION OF INDUSTRIAL PANEL

- Lamination of Polyester or PVC Film
- Primer
- Galvanized Steel Z225
- Foam
- Galvanized Steel Z100
- Primer
- Lamination of Polyester



SECTIONAL INDUSTRIAL DOOR



REST OF COLORS AS PER RAL CHART.

All The Colors of the RAL Chart can be supplied painted with 2 components Polyurethane in Bright Matt and Satin finish.

GUIDE TRACKS

Profile based guides, **Hot Dipped galvanized Dx51-Z200** of 2 mm assemblies with steel rivets and side guides of EPDM bi-component.

-For doors of width more than 8000mm, the profile and guides are supplied to fit 3inch rollers.

HARDWARE AND ROLLERS

HARDWARE: The Steel Hardware of 2.5 mm, Galvanized of excellent quality.

ROLLERS : Zinc-plated steel rollers with nylon roller and precision bearing designed to withstand a load of 60 kg at 750,000 revolutions.

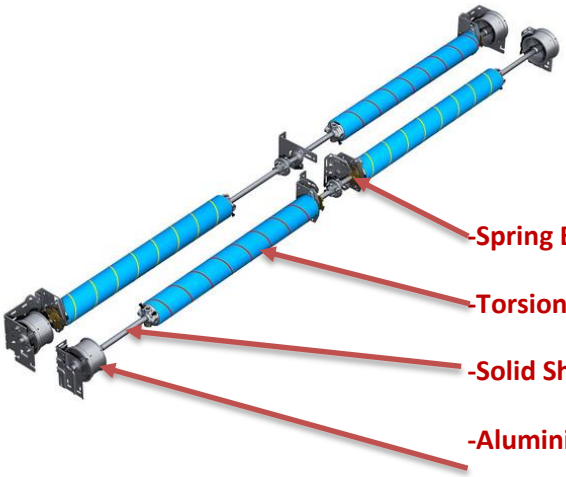
ANTI CABLE BREAK DEVICE

Cable break Device for rollers of d 11 mm with maximum weight- Doors up to 950 kg, with micro switch to detect breakage or slackening of cable.

Certifícate TÜV Tor/Fv 6/102.

-Optionally can install ANTI-THEFT mechanical devise

SPRING COMPENSATION SYSTEM



The compensation system based on winding drums and torsion springs are calculated for **25,000 cycles** in its standard version, and can also be done with springs for intensive use which can go up to **200,000 cycles.**

-Spring Break Device. (Certificate CE-TUV)

-Torsion Springs (Spring Wire C, as per DIN 17223C)

-Solid Shaft with Zinc. (Different diameters as per size of door)

-Aluminium Winding Cable Drums

All industrial sectional doors are supplied with zinc-plated steel sprung safety system and cast iron sprocket for max. **Torsion of 210Nm x spring and TÜV TorFv certificate 6/101.**

DRIVES

MOTOR

Direct-to-axis drive with integrated parachute system and protection by electric separation, rotation voltage 230/400 V, 50 Hz, and 60% efficiency, Electrical protection IP54, thermal protection in the motor winding and emergency device with chain to drive from the ground. - End position adjustment via absolute value encoder (Encoder) Kostal, tested for 5 million cycles of movement -Certificate TÜV. -Free maintenance -All plug connections. -Range of temperature, (-20 + 60) ° C - Sound Pressure Level ----- <70dB.

SECTIONAL INDUSTRIAL DOOR

CONTROL- CS 310

Fully developed microprocessor control.
-Protected housing for printed circuit board.
- Cable entries and plug-in terminal connections.
-24vdc power supply for external accessories. Max. 250 mA.
- Short circuit-proof low voltage
-Transformer switchable from 230V / 3 ~ to 400V / 3 ~
- Plug-in points for AF-receiving module and weekly programmer clock
- Pressure waveform strip, electrical contact strip, connectable optical sensor
- Illuminated keypad with lid
- Base shell base with integrated cover hinges
- Adjustable pre-mounted wall bracket
- Cable duct for connecting conductors.
- Type of protection, IP 65
- Direction of rotation detection
- Programmable intermediate position
- Integrated adjustable force limitation.
- Automatic floor adaptation

R&D DOORS, S.L.
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Polígono industrial Mórea sur nº 30
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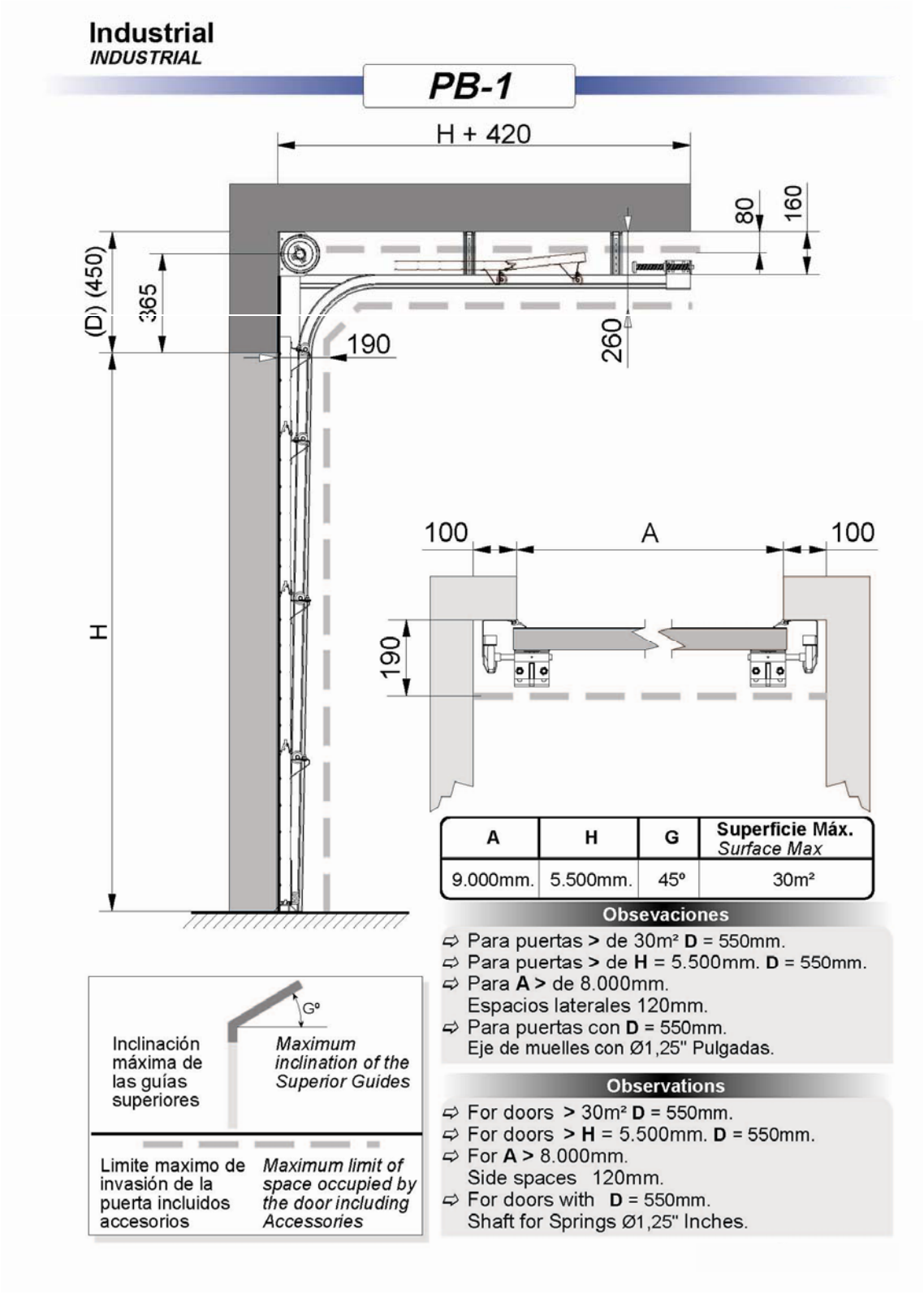
ANNEXE - DRAWINGS



A	H	G	Superficie Máx. *Surface Max*
9.000mm.	5.500mm.	45º	30m²

Obsevaciones

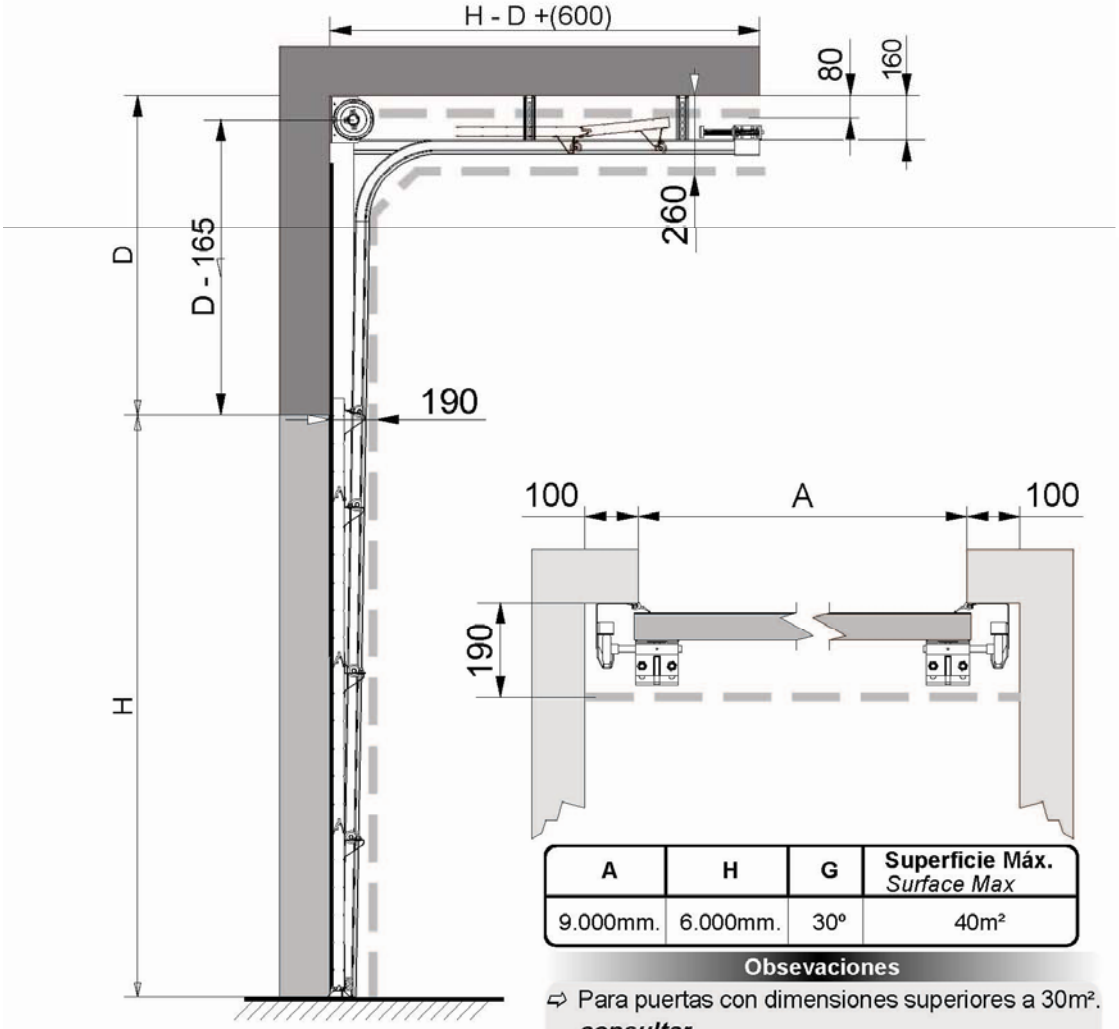
- Para puertas > de 30m² **D** = 550mm.
- Para puertas > de **H** = 5.500mm. **D** = 550mm.
- Para **A** > de 8.000mm.
  Espacios laterales 120mm.
- Para puertas con **D** = 550mm.
  Eje de muelles con Ø1,25" Pulgadas.

Observations

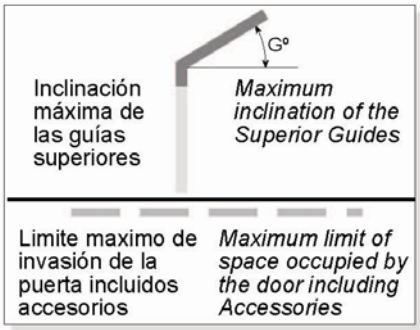
- For doors > 30m² **D** = 550mm.
- For doors > **H** = 5.500mm. **D** = 550mm.
- For **A** > 8.000mm.
  Side spaces 120mm.
- For doors with **D** = 550mm.
  Shaft for Springs Ø1,25" Inches.

Industrial
INDUSTRIAL

PB-2



A	H	G	Superficie Máx. *Surface Max*
9.000mm.	6.000mm.	30º	40m²



Obsevaciones

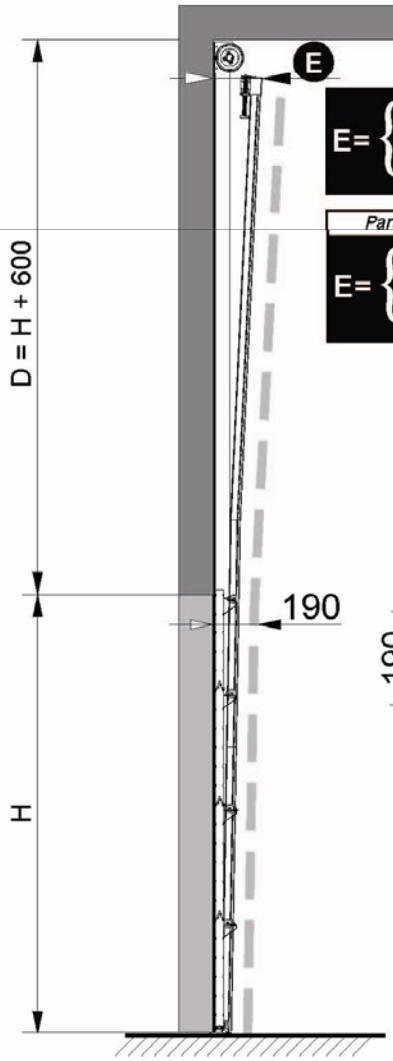
- Para puertas con dimensiones superiores a 30m². ***consultar.***
- Para **A >** de 8.000mm. Espacios laterales 120mm.

Observations

- For doors with dimensions more than 30m². ***consult.***
- For **A >** 8.000mm. Side spaces 120mm.

Industrial
INDUSTRIAL

PB-3



E= { 380mm. para =< 30m². / 480mm. para > 30m². }

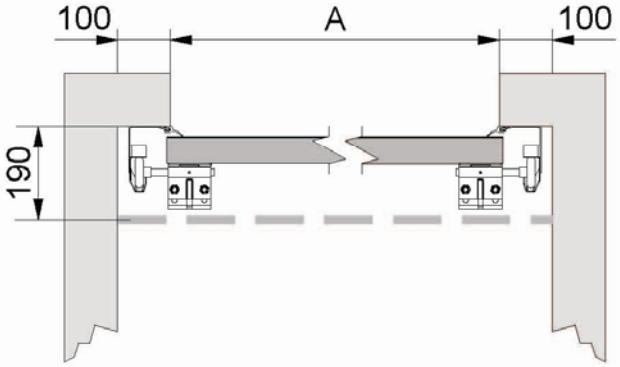
E= { *380mm. for =< 30m².* / *480mm. for > 30m².* }

Para huecos con D = H + <600

E= { 460mm. para =< 30m². / 560mm. para > 30m². }

For hollow with D = H + <600

E= { *460mm. for =< 30m².* / *560mm. for > 30m².* }



A	H	G	**Superficie Máx.** *Surface Max*
9.000mm.	6.000mm.	X	40m²

Limite máximo de invasión de la puerta incluidos accesorios

Maximum limit of space occupied by the door including Accessories

Obsevaciones

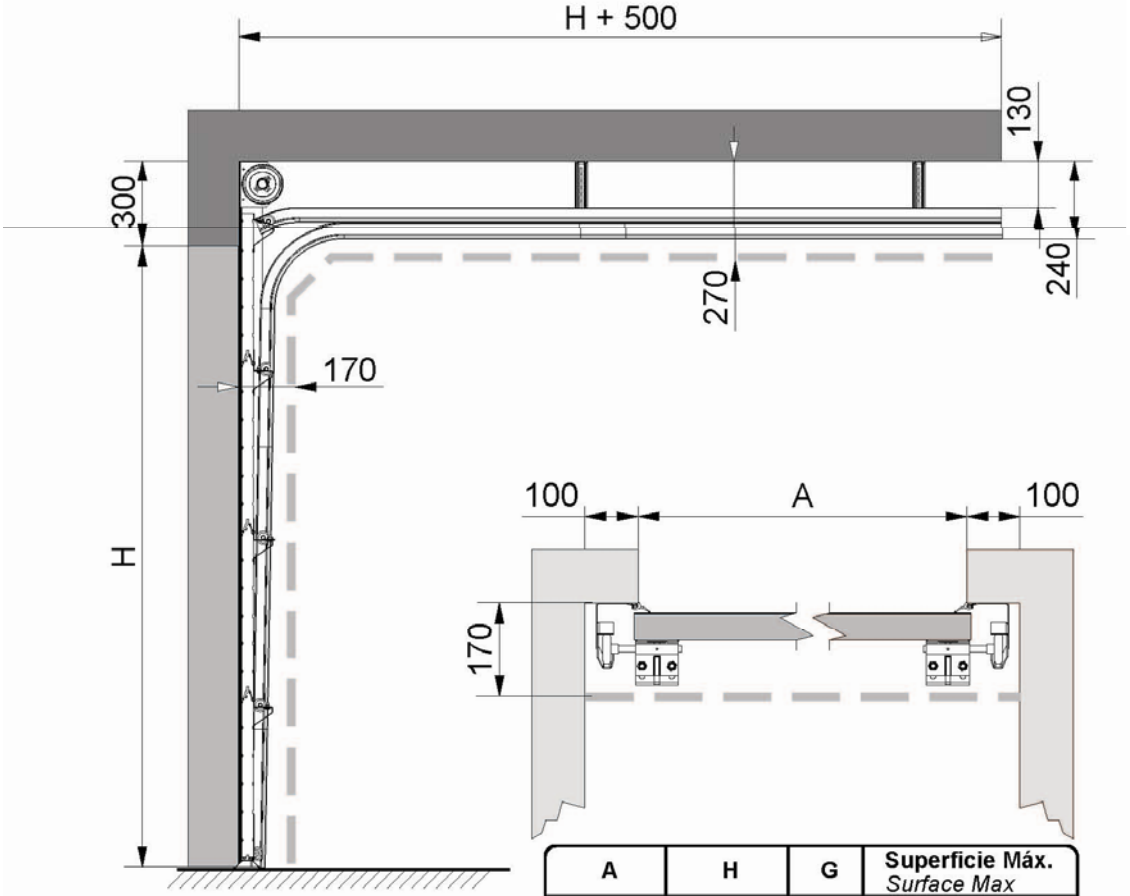
- Para puertas con dimensiones superiores ***consultar.***
- Para **A >** de 8.000mm.
  Espacios laterales 120mm.
- Para puertas = ó > 30m².
  Eje de muelles con Ø1,25" Pulgadas.

Observations

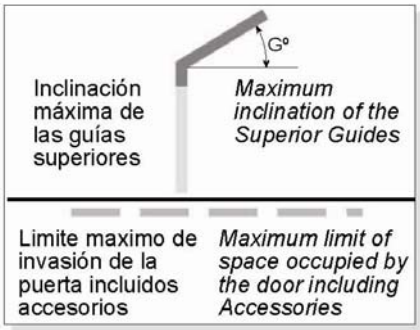
- For doors with dimensions more than **consult.**
- For **A >** 8.000mm.
  Side spaces 120mm.
- For doors = ó > 30m².
  Shaft for Springs Ø1,25" Inches.

Industrial
INDUSTRIAL

PB-30



A	H	G	Superficie Máx. *Surface Max*
8.000mm.	5.000mm.	30º	30m²



Obsevaciones

⇨Puerta para automatizar con el equipo de techo.

Observations

⇨ Door to have automation with Garage door opener.