

SPEED DOORS



INSTANT PASS

FOLD UP WINDBREAK SPEED DOOR

The model INSTANT PASS from Angel Mir is a fold up speed door suitable for entrances facing outwardly. It withstands very heavy air or wind pressures or depressions without leaving its guides, without undergoing wear or deformations, and remaining therefore unchanged for many years.

Maximum sizes 9000 x 7000

Wind resistance on standard configuration: Class 2

CHASSIS

× General:

- Self-supporting, it must be fastened to a structure or wall.

Elements	Material	Details
Foot	Galvanized steel sheet folded on U-shape	Inside, it has two reinforcements of omega-shaped folded sheet, granting a greater stiffness and strength.
Ramps	Polyamide	At the bottom of the foot, for centring the curtain when door closed
Angle units	Aluminium	Rounded shape to avoid frictions and wear to the curtain.
Base	Galvanized steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.
Finishing	Painted grey RAL 7046 or another RAL colour chosen by the customer.	

× Head:

Element	Material	Details
Crosspiece	Galvanized steel sheet	Box-shaped with an omega-shaped reinforcement located on the inner wall
Side supports	Galvanized steel sheet	It has housings for the ball bearings supporting the shaft. Welded to the crosspiece.
Central supports	Galvanized steel sheet	One for each pulley. There are housings for the centring ball bearings. Welded to the crosspiece.
Shaft	Aluminium pulleys	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm or Ø31.75mm, depending on the size of the door, with keyway along its entire length.
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear motor, shaft, pulleys and belts).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the shaft rotation.

Structure options

✓	Stainless steel AISI 304 o 316
✓	Assembly through the outside of the void

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Width ≤ 4500mm	Composite tubular profile of fiberglass and polyester	Different diameters and thicknesses depending on the resistance required. For higher wind types, they may be made of steel.
	Width ≥ 4500mm	Tubular profile of galvanized steel	Different diameters and thicknesses depending on the resistance required.
Skirting board	Composite tube of fiberglass and polyester		To support the contact band.
Fitting to the ground	Bottom bag of polyester coated with PVC		Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquer on both faces; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

Material		Characteristics
Interior panel reinforcements	Black PVC of 3 mm	Welded to the canvas. Reinforced with polyester fabric to avoid wear through friction.
Caps	Rubber	Located at the reinforcement ends to eliminate noises and frictions of the canvas against the guides.
Lifting belts	Polyester	Width: 47mm Thickness: 1,25mm
Belt guides and lock clamps	Polyamide Akulon	For very large doors, the belt guides can be manufactured in galvanized steel.

	Components	Composition
Resistant characteristics	Wind resistance (supervision by OT)	Standard: Class 2 (95 km/h) Optional: Class 3 and 4 (120 and 140 km/h)

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.

MOTORIZATION

Element	Characteristics
Operator	Irreversible gear motor for intensive use Angel Mir, including position switches driven by the output shaft of the reducer.
Location	On one side of the head.
Position switches	Mechanical.
Safety brake	External.
Shaft	Solid with output for elastic connection between the motor and the shaft to absorb the vibrations and to increase the motor reliability.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts	230 / 400 V three-phase.
Frequency in Hz	50 Hz
Power	0.75...5.5 CV / 0.55...4.05 kW, depending on door sizes.
Protection IP	IP 54

Motor options
✓ Front motor with chain drive.
✓ Motor protection, with or without lid, made of galvanized steel sheet, painted same colour as the door.
✓ Special voltages and frequencies.
✓ Moisture-proof protection joint for the electro brake.

Control panel	
Model	RSP
Keys on exterior lid	Switches for opening, closing and emergency stop. Voltage breaker.
Control logic	Programmable relay.
Power	Contactors.
Protection against overvoltage	Thermal relay.
Display registering status and information	Reports on: position, kind of failure and operation counter. Switches for opening and closing by maintained contact, and basic programming.
Control box IP	Painted steel, with input/output cable glands.
Protection	IP 65 displaced with cable glands. IP 55 in case of assembling at the door foot.
Voltages	Power supply: 230 / 400 V three-phase. Manoeuvre: 24V
Control panel electrical installation to motor and to fixed elements on the feet.	Protected by aluminium removable channel fixed to the door foot on plastic supports.

Control panel options
✓ Special voltages and frequencies.
✓ Fiberglass control box with increased IP or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

✗ **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules and standards.

STANDARD electrical characteristics	
Voltage V	230/400V three-phase.
Frequency Hz	50 Hz
Power kW	0.65...4.15 kW, according to door size.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	. Standard: +5...+50°C It cannot be used in cold stores with negative temperature. If assembled outside, it can withstand, occasionally, negative temperatures down to -5° in places where there is not risk of icing. In this case, no transparent peepholes can be added. To warn before manufacturing.
Special sizes	Please enquire.

Safety	Used procedure
Passage	Photocell with transmitter – receiver located on the jambs of the structure.
Anti- crushing	Wireless contact band on main edge.
Anti-dragging	Transmitter – receiver photocell located on the jambs of the structure. (UNE EN12445:2000 / 4.1.2, UNE-EN 12453: 2000, 5.1.2)
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)
Motor	For manual operation, it must be driven by crank or chain.
Safety belt	Unsolicited, in red. Centred on the canvas.
Spring safety system	It prevents the canvas falling in case an element of the suspension breaks.

Safety options
✓ Photocell curtain protecting the entire door width and up to 2500 mm height assembled inside the guides.

✗ **Door speeds**

Speeds (m/s) *	Opening	Closing
	0.8 m/s	0.8 m/s

** For large doors, speeds may be different. Please inquire for specific cases.

* For other speeds, please ENQUIRE.

General options
✓ ATEX certified doors for explosive environments (dust, paint or gas).

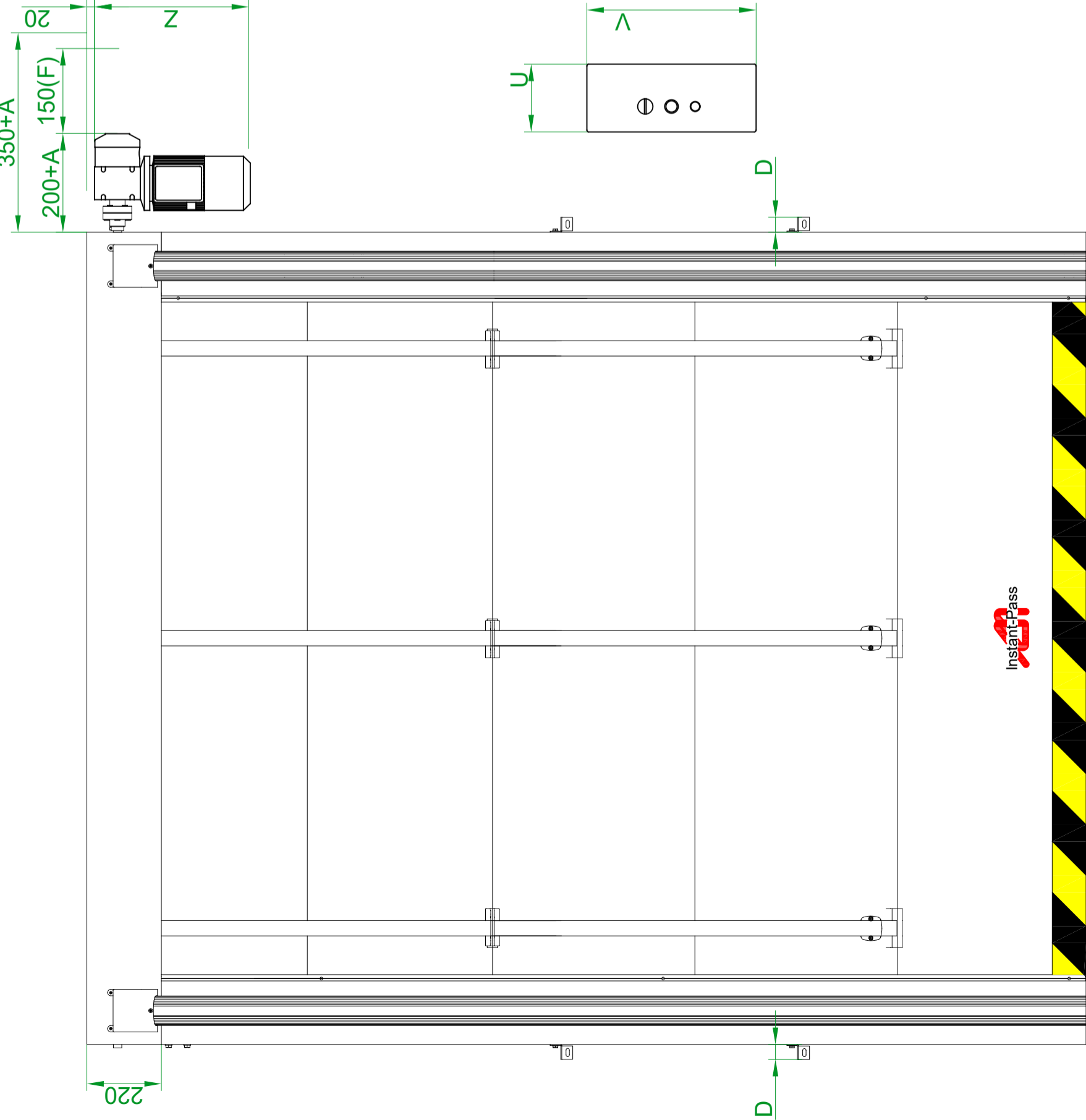
*For special sizes, please ENQUIRE.

CERTIFICATES AND STANDARDIZATIONS

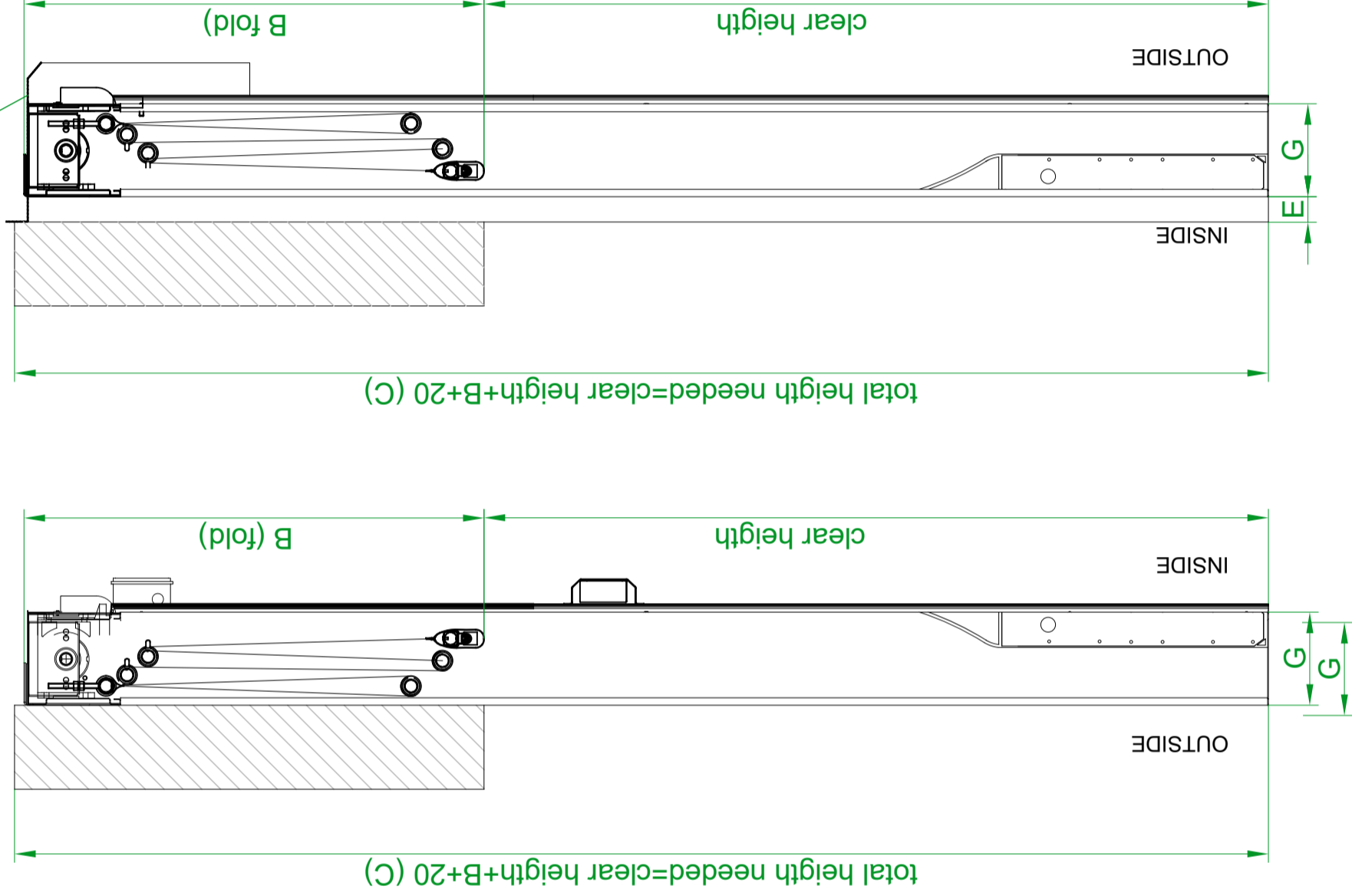
Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

The information contained in this descriptive text is general for the referenced product. In no case is it binding or contractual. Portes Bisbal S.L. reserves the right to modify the features herein.

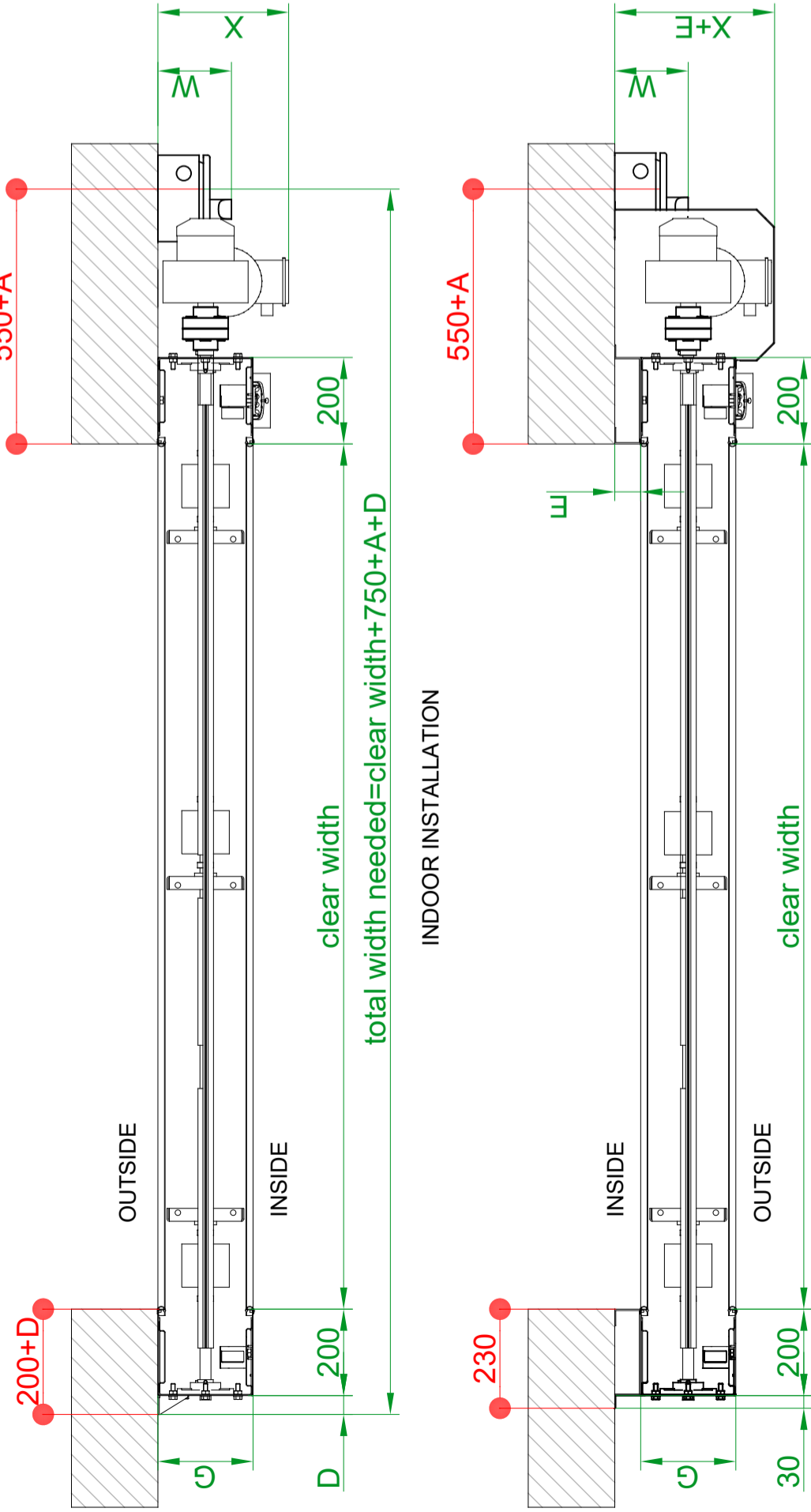
motor cover and roof are required for outdoor mountings



C	Installation allowance aprox 20 mm.
	Mounting brackets
D	-For doors up to 25m ² D=46 -For doors over 25m ² D=100
	Pre-frame for outdoor assemblies
E	-For clear width up to 4000mm. E=60 -For clear width over 4000mm. E=90
F	Space needed to regulate the limit of stroke Aprox.150 MM.
A,B,G, X,Z	Consult table
	ELECTRICAL BOX
MODEL	DIM. U x V x W
RSP / RSP 16A	200 x 500 x 160
RSP INOX	300 x 400 x 150
RSP PLM	330 x 430 x 200





OUTDOOR INSTALLATION

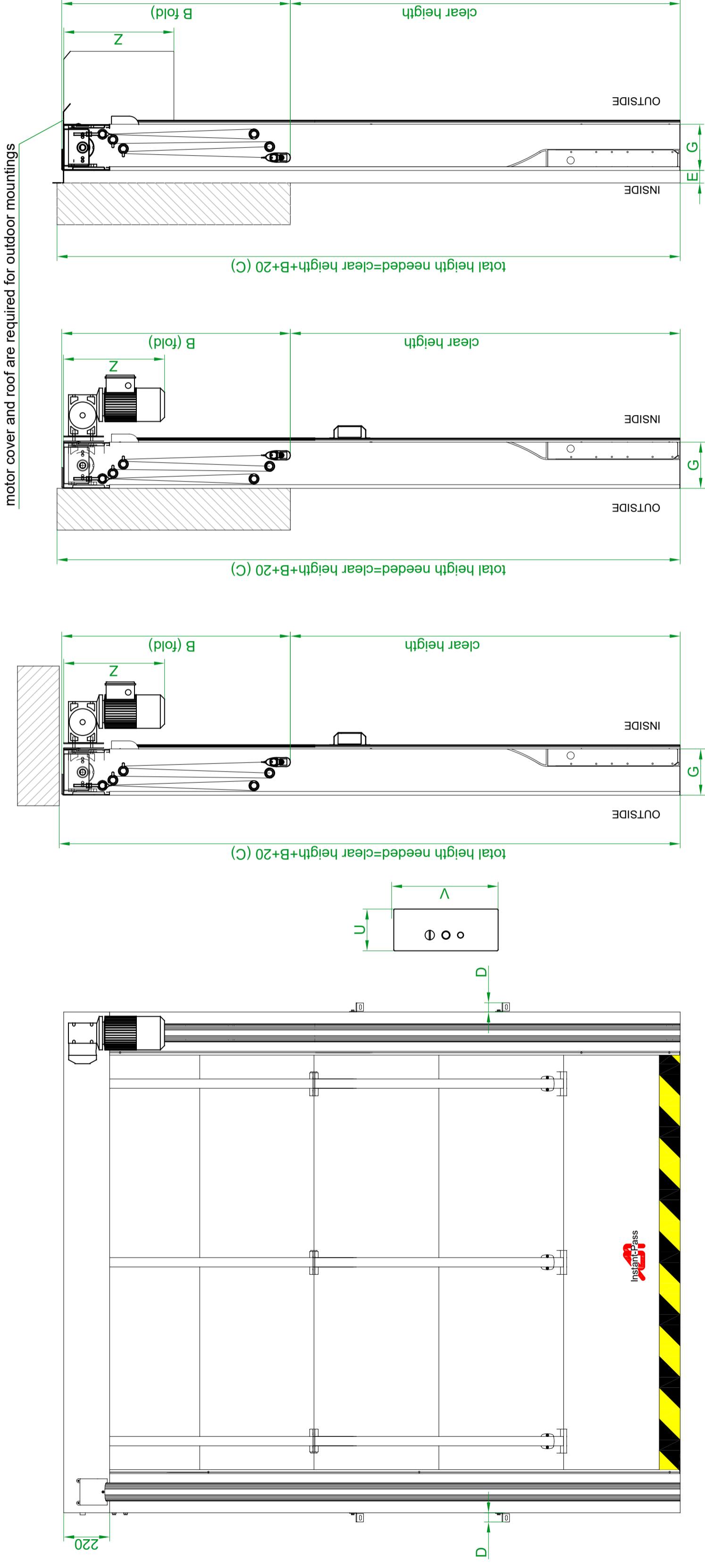


OUTDOOR INSTALLATION

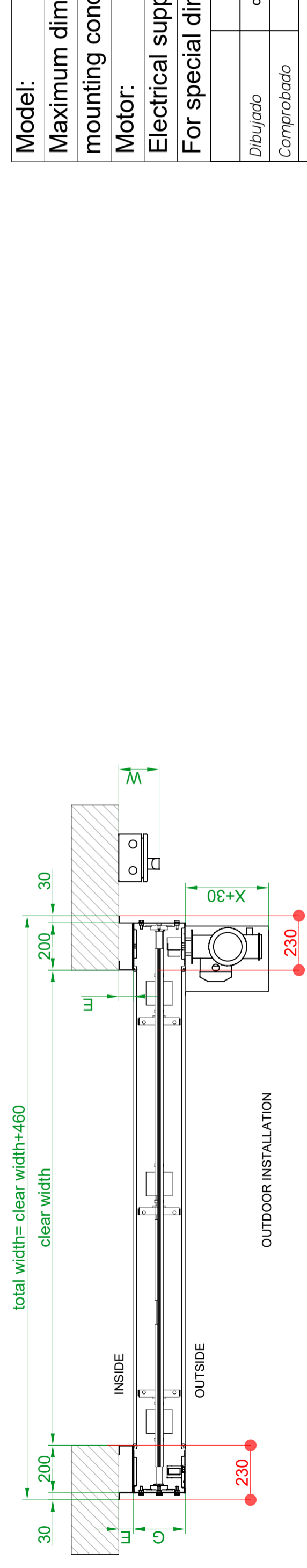
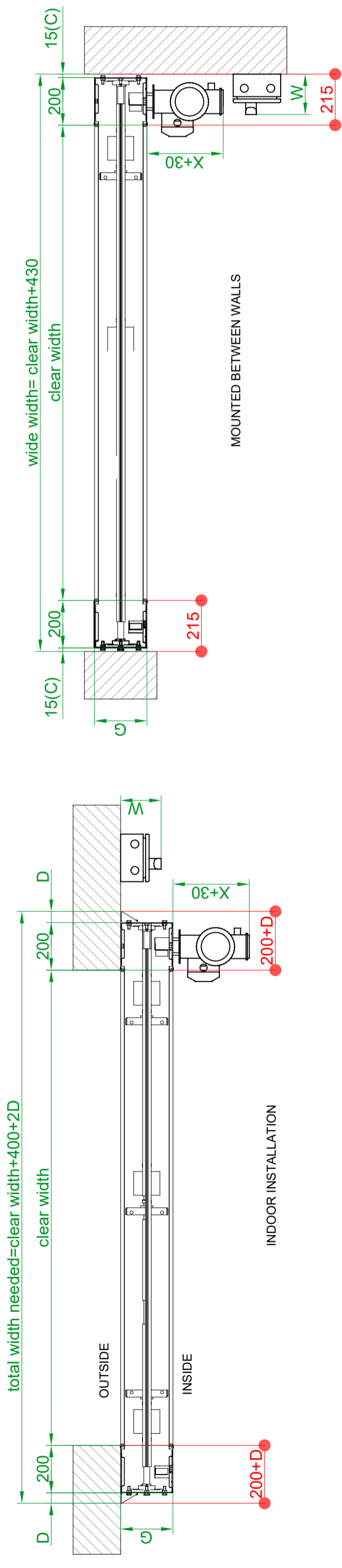
Model:	Instant Pass with lateral motor
Maximum dimensions:	9000x7000 (width x height)
mounting conditions:	inside/outside
Motor:	Pact
Electrical supply:	three phase
For special dimensions consult our technical office	

Dibujado	Nombre	Fecha	 ANGEL MIR  17100 LA BISBAL Gran Canaria Tel. +34 972640620 Fax. +34 972642451
Comprobado	ofi. tecnica	12/09/12	
Familia:	Rápidas	Título:	
Tipo: Instant Pass		Código:	
Material:		Conjunto al que pertenece: xxxxxx	
		Hoja 1 de 3	

C	Installation allowance
D	-for doors up to 25m ² D=46 -for doors over 25m ² D=100
E	-For clear width up to 4000mm. E=60 -For clear width over 4000mm. E=90
B,G, X,Z	Consult table
ELECTRICAL BOX	
	DIM. U x V x W
	RSP / RSP 16A
	RSP INOX
	RSP PLM
	200 x 500 x 160
	300 x 400 x 150
	330 x 430 x 200



MOUNTED BETWEEN WALLS INDOOR INSTALLATION OUTDOOR INSTALLATION



Model:	Instant Pass with frontal motor	
Maximum dimensions:	9000x7000 (width x height)	
mounting conditions:	inside/outside/between walls	
Motor:	Pact	
Electrical supply:	three phase	
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	ofi.technicah	12/09/12
Familia:	Rápidas	
Tipo:	Instant Pass	Título:
Material:		Instant Pass
		Código:
		Conjunto al que pertenece:
		xxxxxx
		Hoja 1 de 3



INSTANT PASS BASIC

FOLD UP WINDBREAK SPEED DOOR

The model INSTANT PASS BASIC from Angel Mir is a fold up speed door suitable for entrances facing outwardly.

It withstands very heavy air or wind pressures or depressions without leaving its guides, without undergoing wear or deformations, and remaining therefore unchanged for many years.

Maximum sizes 6000 x 6000

Wind resistance on standard configuration: Class 2

CHASSIS

× **General:**

- Self-supporting, it must be fastened to a structure or wall.
- Galvanized steel.

Element	Material	Details
Foot	Galvanized steel sheet folded on U-shape.	Inside, it has a reinforcement of omega-shaped folded sheet, granting greater stiffness and strength.
Ramps	Galvanized steel sheet	At the bottom of the foot, for centring the curtain when door closed.
Angle units	Aluminium	Rounded shape to avoid frictions and wear to the curtain.
Base	Galvanized steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.

× **Head:**

Element	Material	Details
Crosspiece	Galvanized steel sheet	Box-shaped with an omega-shaped reinforcement located on the inner wall.
Side supports	Galvanized steel sheet	It has housings for the ball bearings supporting the shaft. Welded to the crosspiece.
Central supports	Galvanized steel sheet	One for each pulley. There are housings for the centring ball bearings. Welded to the crosspiece.
Shaft	Aluminium pulleys	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear-motor, shaft, pulleys and belts).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the shaft rotation.

Structure options

- ✓ Stainless steel AISI 304
- ✓ Assembly through the outside of the void

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Width ≤ 4500mm	Composite tubular profile of fiberglass and polyester	Different diameters and thicknesses depending on the resistance required. For higher wind types, they may be made of steel.
	Width ≥ 4500mm	Tubular profile of galvanized steel	Different diameters and thicknesses depending on the resistance required.
Skirting board	Composite tube of fiberglass and polyester		To support the contact band.
Fitting to the ground	Bottom bag of polyester coated with PVC		Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquered on both sides; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

Material	Characteristics
Interior panel reinforcements	Black PVC of 3 mm Welded to the canvas. Reinforced with polyester fabric to avoid wear through friction.
Caps	Rubber Located at the reinforcement ends to eliminate noises and frictions of the canvas against the guides.
Lifting belts	Polyester Width: 47mm Thickness: 1,25mm
Belt guides and lock clamps	Polyamide Akulon Parts manufactured by injection

Components	Composition
Resistant Characteristics	Wind resistance (supervision by OT) Standard: Class 2 (95 km/h) Optional: Class 3 (120 km/h)

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.

MOTORISATION

Element	Characteristics
Operator	EKM compact irreversible gear motor for intensive use, including integrated position switches.
Situation	On one side of the head.
Position switches	Mechanical.
Spring safety system	Internal.
Shaft	Void of 25,4 mm. With keyway.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank. On doors higher than 3000mm, chain drive.
Voltage in volts	230 / 400 V three-phase.
Frequency in Hz	50 Hz
Power	0.6...1.87 CV / 0.45...1.38 kW, depending on door sizes.
Protection IP	IP 54

Motor options
✓ Front motor with chain drive.
✓ Motor protection, with or without lid, made of galvanized steel sheet, painted same colour as the door.
✓ Special voltages and frequencies.
✓ Protection increases to IP 65

Control panel	
Model	EKM TS970 DUAL
Keys on exterior lid	Switches for opening, closing and emergency stop. Voltage breaker.
Protection against overvoltage	Thermal relay.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller.
Control box IP	PVC, with input/output cable glands.
Protection	IP 65
Voltages	Power supply: 230 / 400 V three-phase Manoeuvre: 24V
Electrical installation of control panel to motor and to fixed elements to the feet	Protected by standard rectangular conduit in PVC. Speed connectors at its ends for an easy assembly and maintenance.

Control panel options
✓ Maintenance indicator
✓ Special voltages and frequencies

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× Door electrical data

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules and standards.

STANDARD electrical characteristics	
Voltage V	230 / 400V three-phase.
Frequency Hz	50 Hz
Power kW	0.55...1.48 kW, according to door size.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in cold stores with negative temperature. If assembled outside, it can withstand, occasionally, negative temperatures down to -5° in places where there is not risk of icing. In this case, no transparent peepholes can be added. To warn before manufacturing.
Special sizes	Please enquire.

Safety	Used procedure
Passage	Photocell with reflector located on the jambs of the structure.
Anti- crushing	Wireless contact band on main edge.
Anti-dragging	Photocell with reflector located on the jambs of the structure. (UNE EN12445:2000 / 4.1.2, UNE-EN 12453: 2000, 5.1.2)
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)
Motor	For manual operation, it must be driven by crank or chain.
Safety belt	Unsolicited, in red. Centred on the canvas.
Spring safety system	Included in the motor.

Safety options
✓ Photocell curtain protecting the entire door width and up to 2500 mm height assembled inside the guides.

× Door speeds

Speeds (m/s) *	Opening	Closing
	0.9 m/s	0.9 m/s

* For large doors, speeds may be different. Please inquire for specific cases.

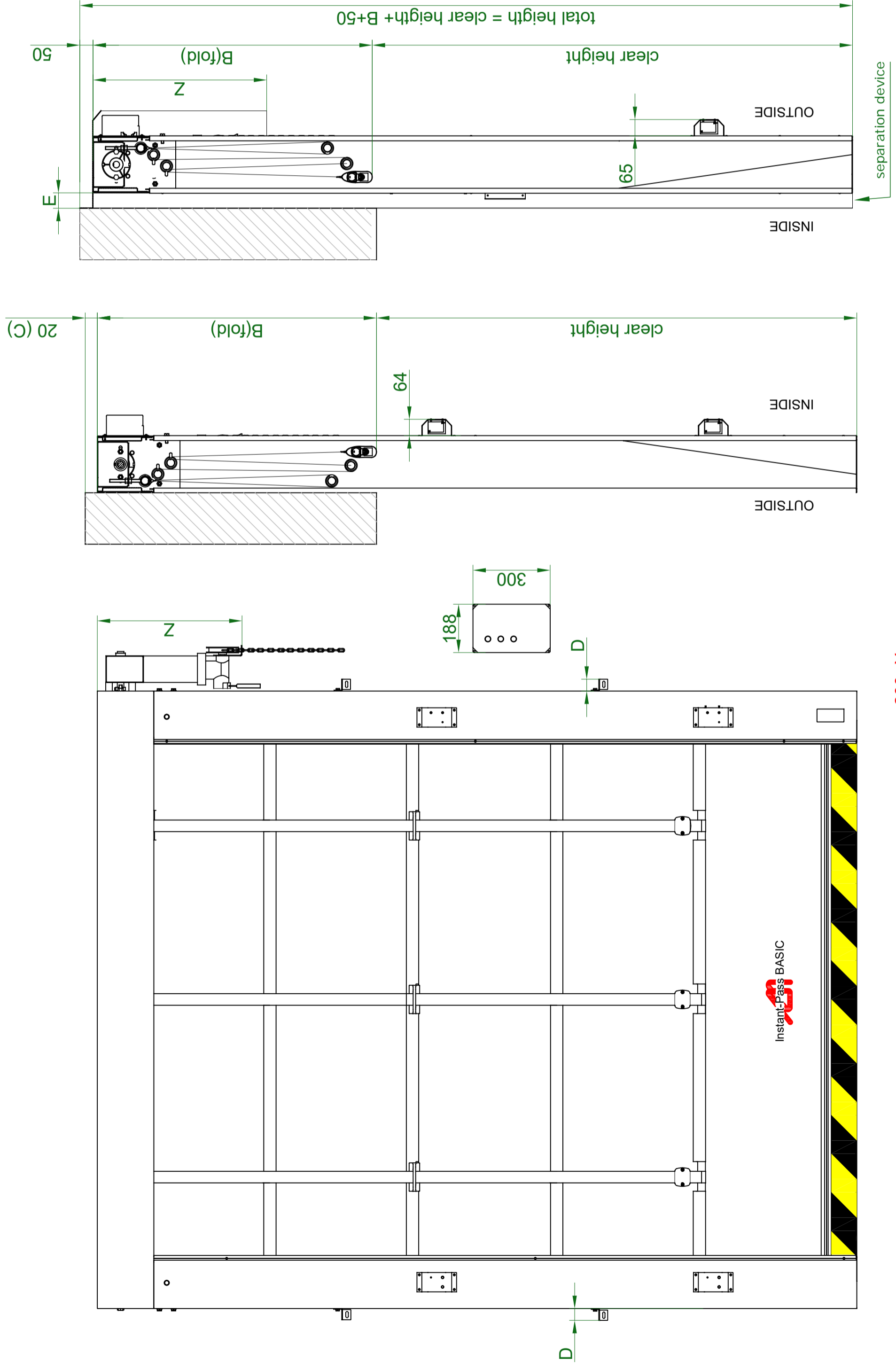
* For other speeds, please ENQUIRE

CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

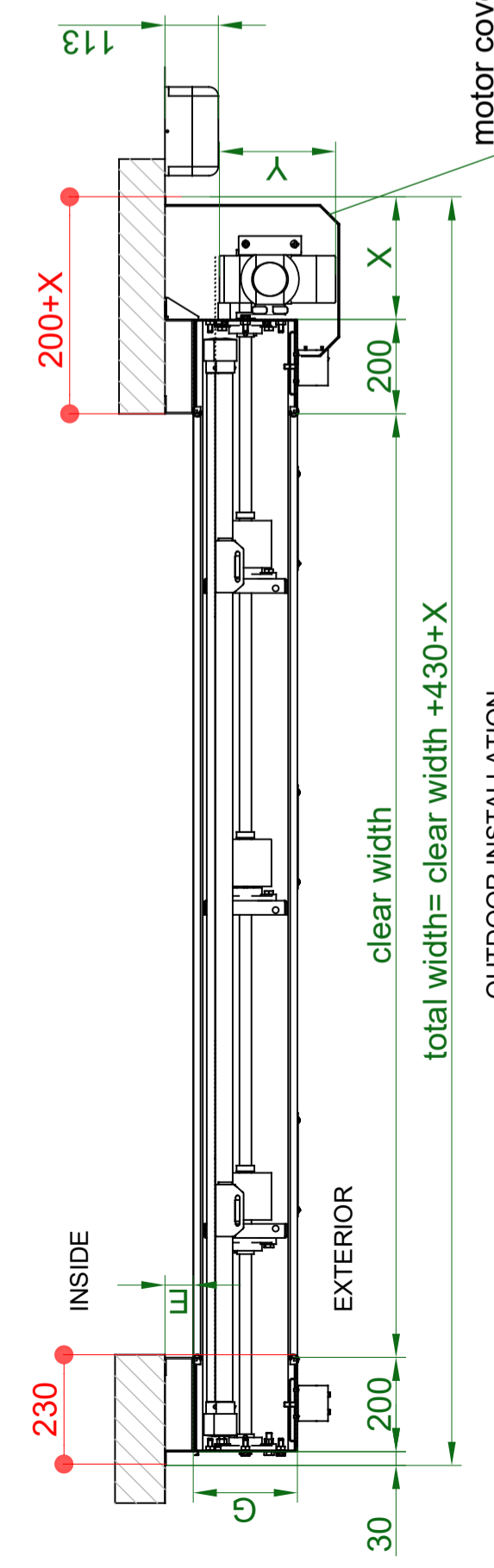
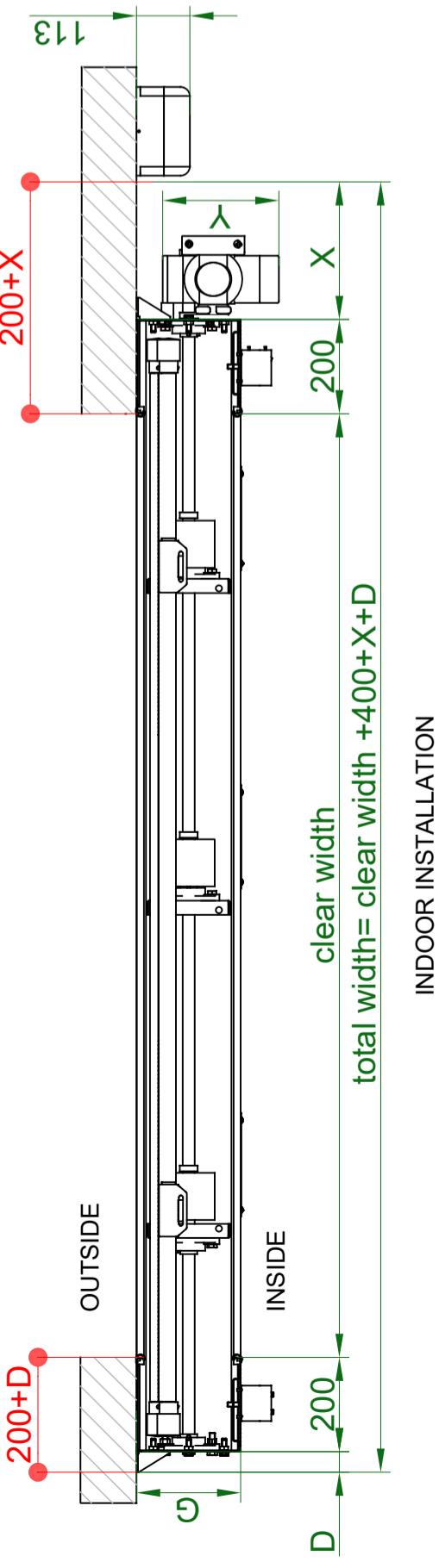
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C	Installation allowance
D	-for doors up to 25m ² D=46 -for doors over 25m ² D=100
E	-For clear width up to 4000mm. E=60 -For clear width over 4000mm. E=90
B,G,X,Z	Consult attached table
X dimension includes distance for assembling and disassembling the motor	
-For total height up to 3000 Manual operation by crank -For total height over 3000 Manual operation by chain	



OUTDOOR INSTALLATION

INDOOR INSTALLATION



motor cover and roof are required for outdoor mountings

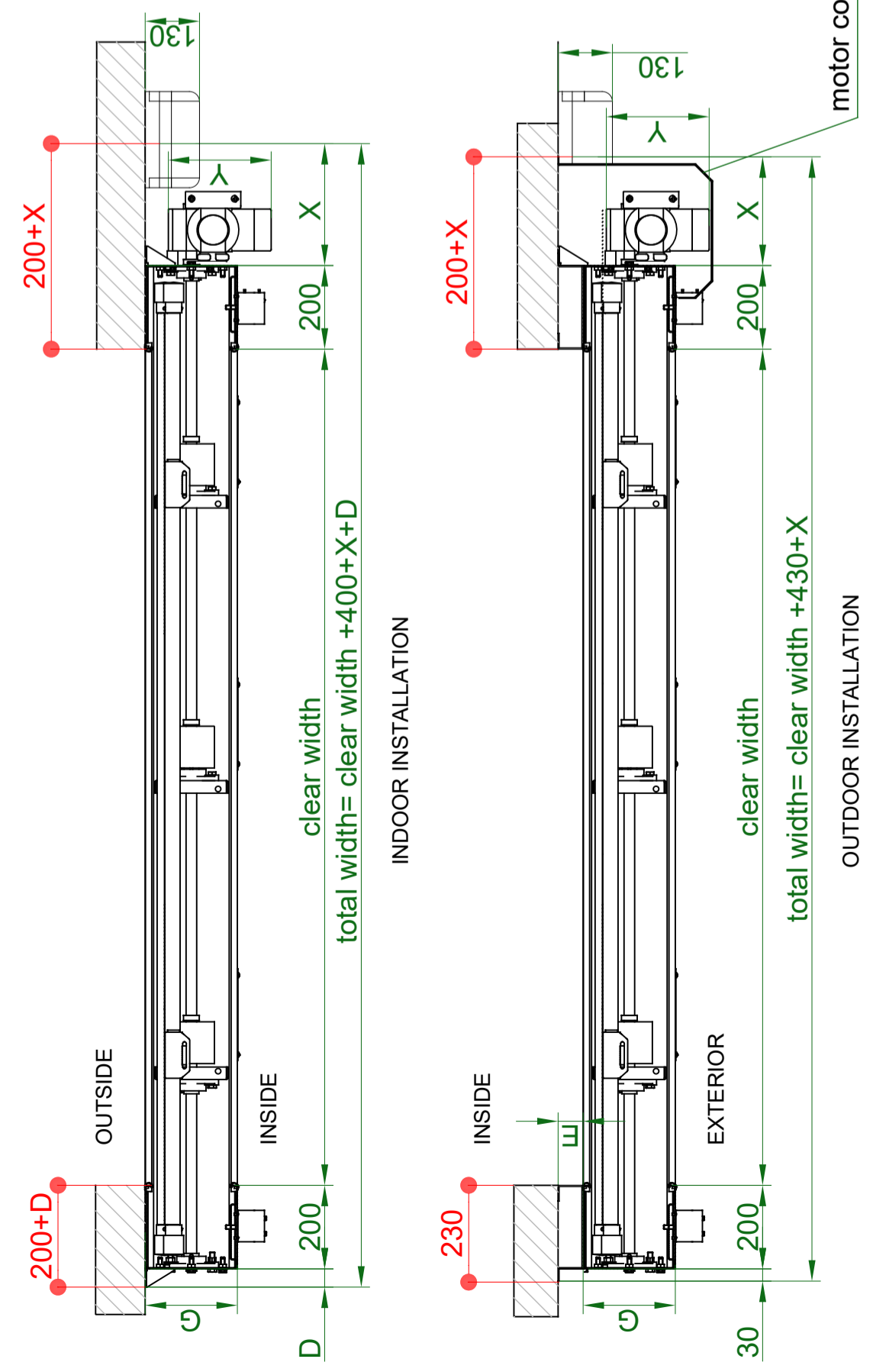
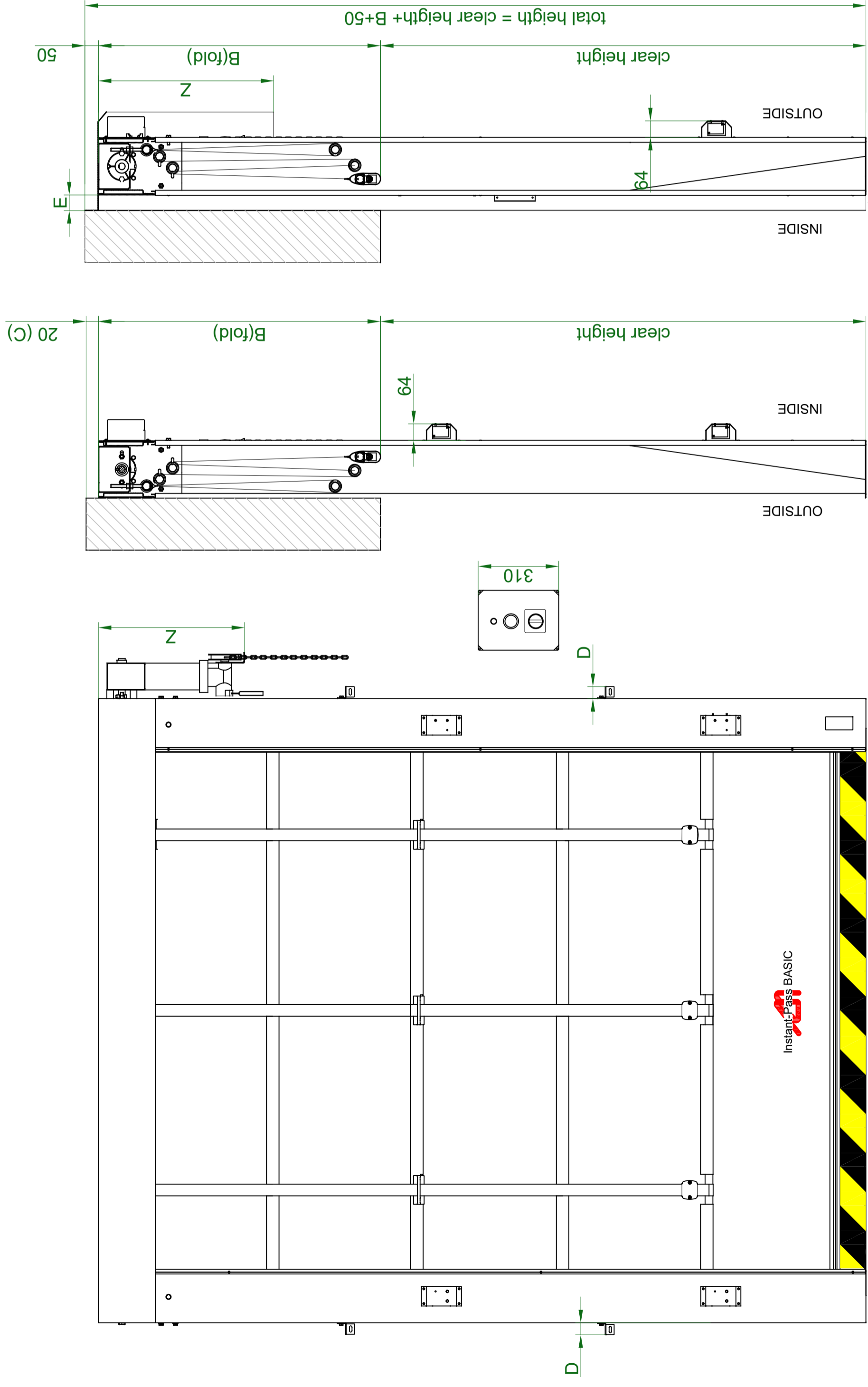
Model:	Instant Pass Basic with lateral motor
Maximum dimensions:	6000x6000 (width x height)
mounting conditions:	door mounted inside/outside
Motor:	Elektromaten
Electrical supply:	Three phase 230/400 III
Electrical box	Elektromaten
For special dimensions consult our technical office	

Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	12/09/12
Familia: Rápidas	Título: Instant Pass Basic	
Tipo: Instant Pass Basic		
l/l	Material:	
		Código: xxxxxx
		Hoja 1 de 3



17100 LA BISBAL
Gran Canaria
Tel: +34 972640620
Fax: +34 972642451

C	Installation allowance
D	-for doors up to 25m ² D=46 -for doors over 25m ² D=100
E	-For clear width up to 4000mm. E=60 -For clear width over 4000mm. E=90
B,G,X,Z	Consult attached table
X dimension includes distance for assembling and disassembling the motor	
-For total height up to 3000 Manual operation by crank -For total height over 3000 Manual operation by chain	



INDOOR INSTALLATION

OUTDOOR INSTALLATION

Model:	Instant Pass Basic with lateral motor
Maximum dimensions:	6000x6000 (width x height)
mounting conditions:	door mounted inside/outside
Motor:	Elektromaten
Electrical supply:	Single phase 230 II
Electrical box	RSPV ECO
For special dimensions consult our technical office	

Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	12/09/12
Familia: Rápidas	Título: Instant Pass Basic	
Tipo: Instant Pass Basic	Código: xxxxxx	
Material:	Conjunto al que pertenece: xxxxxx	
Hoja 1 de 3		



INSTANT PASS ECO

FOLD UP WINDBREAK SPEED DOOR

The model INSTANT PASS ECO from Angel Mir is a fold up speed door suitable for entrances facing outwardly. It withstands air or wind pressures or depressions without leaving its guides, without undergoing wear or deformations, and remaining therefore unchanged for many years.

Maximum sizes of passing light 5560 x 6000

Wind resistance on standard configuration: Class 2

CHASSIS

× General:

- Self-supporting, it must be fastened to a structure or wall.
- Prelacquered steel white Pirineos

Element	Material	Details
Foot	Prelacquered steel sheet	Folded in U-shaped with profiled reinforcements on both front faces.
Ramps	Prelacquered steel sheet	At the bottom of the foot, for centring the curtain when door closed.
Angle units	PVC and rubber	To avoid frictions and wear to the curtain.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.

× Head:

Element	Material	Details
Crosspiece	Prelacquered steel sheet	Box-shaped, with profiled reinforcements on both faces.
Side supports	Lacquered steel sheet	It has housings for the ball bearings supporting the shaft. Junction to the crosspiece by rivets.
Central supports	Galvanized steel sheet	One for each pulley. It has housings for the centring ball bearings. Junction to the crosspiece by rivets.
Shaft	Aluminium pulleys	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear motor, shaft, pulleys and belts).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the rotation of the shaft.

Structure options

- ✓ Assembly through the outside of the void.

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+ 70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Width ≤ 4500mm	Composite tubular profile of fiberglass and polyester	Different diameters and thicknesses depending on the resistance required. Depending on the kind of wind, they can be of steel.
	Width ≥ 4500mm	Tubular profile of galvanized steel	
Skirting board	Composite tube of fiberglass and polyester, having steel tubes as supports		For the contact band.
Fitting to the ground	Bottom bag of reinforced polyester coated with PVC.		Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquer on both faces; colour to be chosen from a wide range		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Material	Characteristics
Interior panel reinforcements	Black PVC negro of 3 mm	Welded to the canvas. Reinforced with polyester fabric to avoid wear through friction.
Caps	Rubber	Located at the reinforcement ends to eliminate noise and friction of the canvas against the guides
Lifting belts	Polyester	Width: 47mm Thickness: 1,25mm
Belt guides and lock clamps	Polyamide Akulon	Parts manufactured by injection.

	Components	Composition
Resistant characteristics	Wind resistance	Standard: Class 2 (95 km/h). Optional: Class 3 (120 km/h). To enquire.

Canvas options

- ✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.

MOTORIZATION

Element	Characteristics
Operator	EKM compact irreversible gear motor for intensive use, including integrated position switches.
Location	On one side of the head.
Position switches	Mechanical
Safety brake	Internal.
Shaft	Void of 25,4 mm. With keyway.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts	230/400 V three-phase
Frequency in Hz	50 Hz
Power	0.6...1.87 CV / 0.45...1.38 kW, depending on door sizes.
Protection IP	IP 54

Motor options	
✓	Front motor with chain drive. Depending on sizes.
✓	Motor protection, with or without lid, made of galvanized steel sheet, painted same colour as the door.

Control panel	
Model	RSP-K
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Control	Adjustable relay.
Drive	Contactora.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller.
Control box IP	PVC, with input/output cable glands.
Protection	IP 65
Voltages	Power supply: 230/400 V three-phase. Manoeuvre: 24V
Control panel electrical installation to motor and to fixed elements on the feet	Protected by standard rectangular conduit in PVC. Speed connectors at its ends for an easy assembly and maintenance.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

✘ **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules or standards.

STANDARD electrical data	
Voltage V	230/400V three-phase
Frequency Hz	50 Hz
Power kW	0.55...1.48 kW, according to door sizes.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in cold stores. If assembled outside, it can withstand, occasionally, negative temperatures down to -5° in places where there is not risk of icing. In this case, no transparent peepholes can be added. To warn before manufacturing.
Special sizes	Please enquire.

Safety	Used procedure
Passage	Photocell with reflector located on the jambs of the structure.
Anti-crushing	Wireless contact band on main edge.
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Irreversible motor	For manual operation, it must be driven by crank.
Spring safety system	Included in the motor.

Safety options	
Anti-dragging	Photocell with reflector located on the jambs of the structure. (UNE EN12445:2000 / 4.1.2, UNE-EN 12453: 2000, 5.1.2)
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)

✘ **Door speeds**

Speeds (m/s) *	Opening	Closing
	0.9 m/s	0.9 m/s

* For large doors, speeds may be different. Please inquire for specific cases.

* For other speeds, please ENQUIRE

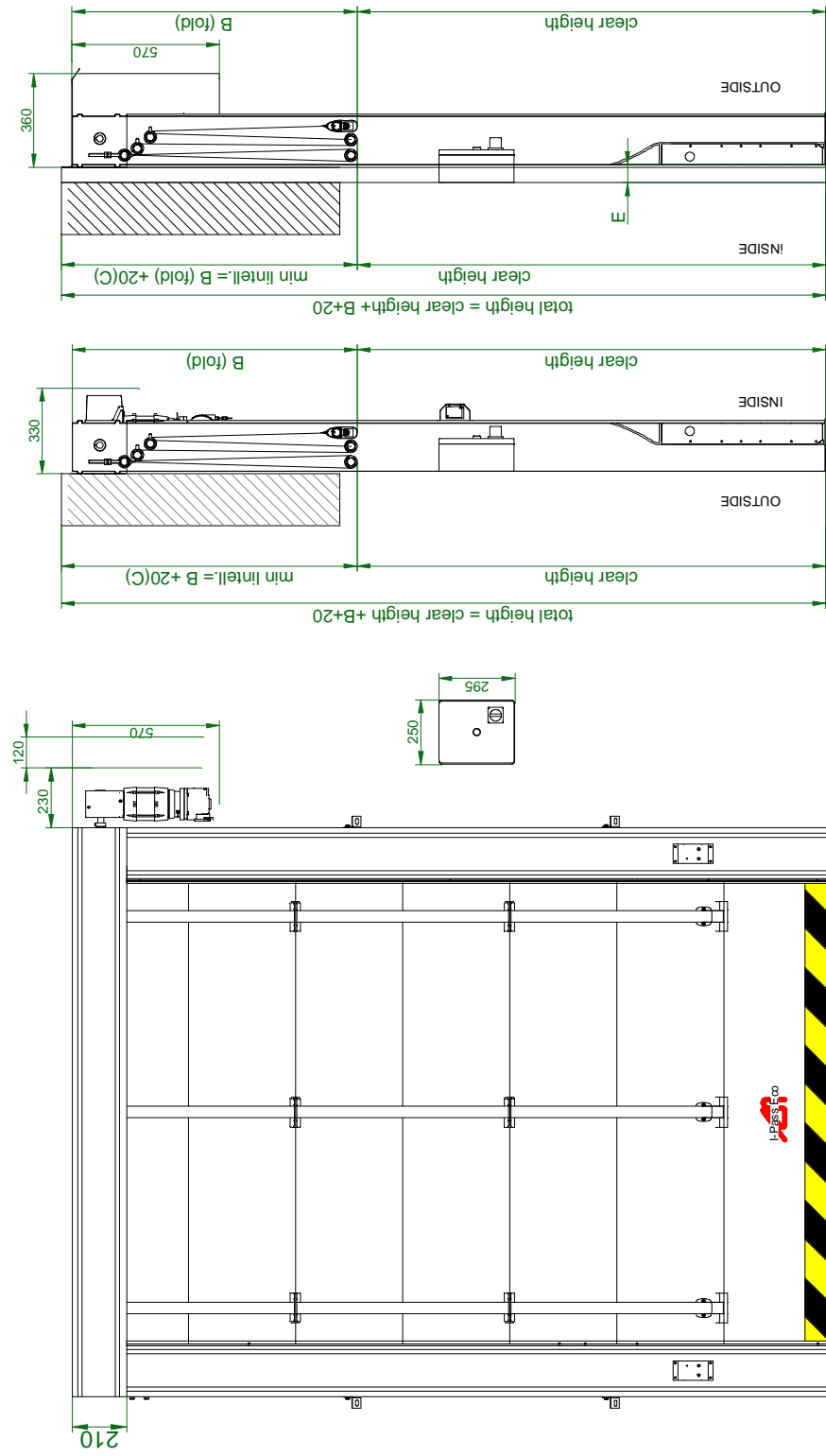
CERTIFICATES AND STANDARDIZATIONS

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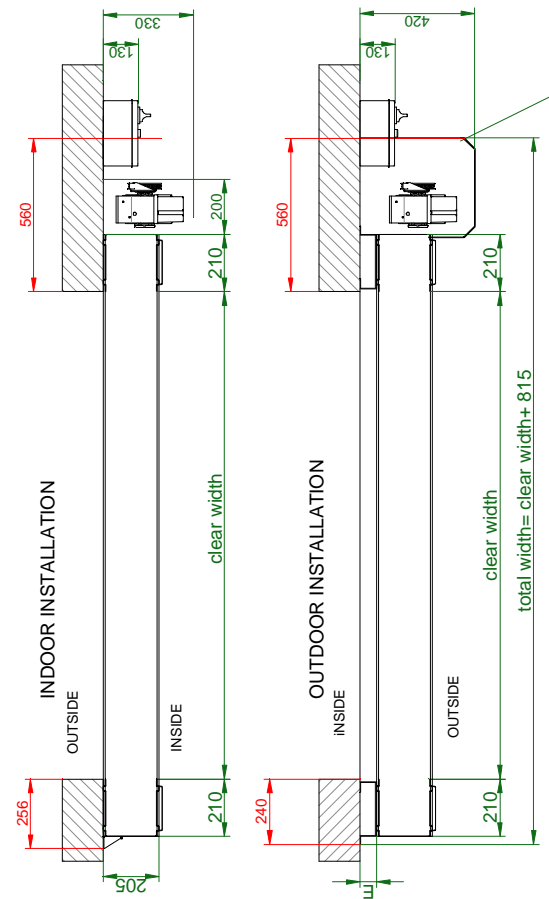
E
 -For clear width up to 4 m. E=60
 -For clear width up to 4 m. E=90

Clear height	B	
	Ceilings	Fold
2000	5	958
2250	5	1020
2500	5	1083
2750	7	932
3000	7	973
3250	7	1015
3500	7	1057
3750	7	1098
4000	9	985
4250	9	1016
4500	9	1048
4750	9	1079
5000	9	1110

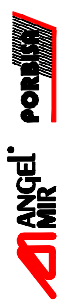


OUTDOOR INSTALLATION

INDOOR INSTALLATION



Model:	Instant Pass Eco lateral motor
Maximum dimensions:	5000 x 6000 (Width x height)
Mounting condition:	inside/outside
Motor:	ELK
Box control:	RSPK
Electrical supply:	230/400V Three phase
Manual operation:	Crank

Dibujado	Nombre	Fecha
Comprobado	off/tecnican	13/01/2016
Familia	Estave	13/01/2016
		
17100 LA BESAL Grand Spain Tel. +34 972640820 Fax. +34 972642451		
Título: Instant Pass Eco		Código: xxxxxx
Tipo: Instant Pass Eco		Hojas / de /
Material:		

motor cover and roof are required for outdoor mountings

INSTANT PASS PREMIUM

FOLD UP HIGH-SPEED DOOR INSTANT PASS PREMIUM

The model INSTANT PASS PREMIUM from Angel Mir is the perfect door for very large accesses or doors that must endure wind pressure and require a high speed of operation.

It withstands very heavy air or wind pressures or depressions without leaving its guides and without undergoing wear or deformations, remaining therefore unchanged for many years. As the structure is manufactured with reinforced profiles, it counts on a great resistance that allows it to be built in large sizes, and resistance to significant wind pressures, without needing reinforced support structures. It is self-supporting.

The ones that are equipped with reinforcement bars of polyester and fiberglass, withstand moderate impacts without permanent loss of shape.

It has a high-speed motor and a speed management system through a frequency variator.

It includes PVC joints on the guides to minimize noise and increase sealing.

Maximum sizes 6000 x 6000

Wind resistance on standard configuration: Class 2

CHASSIS

× General:

- Self-supporting (it must be fastened to a structure or wall)

Element	Material	Details
Foot / guide	Galvanized steel sheet folded on U-shape	Inside, it has two reinforcements of omega-shaped folded sheet, granting a greater stiffness and strength.
Ramps	Polyamide	At the bottom of the foot, for centring the curtain when door closed
Angle units	Aluminium	Rounded shape to avoid frictions and wear to the curtain.
Base	Galvanized steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.
Finishing	Painted grey RAL 7005 or another RAL colour chosen by the customer.	

× Head:

Element	Material	Details
Crosspiece	Galvanized steel sheet	Box-shaped, with two omega-shaped reinforcements located on the inner walls.
Side supports	Galvanized steel sheet	It has housings for the ball bearings supporting the shaft. Welded to the crosspiece
Central supports	Galvanized steel sheet	One for each pulley. It has housings for the centring ball bearings. Welded to the crosspiece
Shaft	Aluminium pulleys	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm or Ø31.75, depending on door size, with keyway along its entire length
<ul style="list-style-type: none"> • The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear motor, shaft, pulleys and belts). 		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid bulging or movements due to the rotation of the shaft.

Structure options

- ✓ Stainless steel AISI 304 o 316
- ✓ Assembly through the outside of the void

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+ 70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Width ≤ 4500mm	Composite tubular profile of fiberglass and polyester	Different diameters and thicknesses depending on the resistance required. In case of strong winds, they can be of steel.
	Width ≥ 4500mm	Tubular profile of galvanized steel	Different diameters and thicknesses depending on the resistance required
Skirting board	Composite tube of fiberglass and polyester.		For supporting the contact band.
Fitting to the ground	Bottom bag of reinforced polyester coated with PVC.		Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquer on both faces; colour to be chosen from a wide range.		
Side joints	PVC foam coated with flexible PVC.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Material	Characteristics
Interior panel reinforcements	Black PVC of 3 mm	Welded to the canvas. Reinforced with polyester fabric to avoid wear through friction.
Caps	Rubber	Located at the reinforcement ends to eliminate noise and friction of the canvas against the guides
Lifting belts	Polyester	Width: 47mm Thickness: 1,25mm
Belt guides and lock clamps	Polyamide Akulon	In case of large doors, the belt guides can be manufactured of galvanized steel.

	Components	Composition
Resistant characteristics	Wind resistance (supervision by OT)	Standard: Class 2 (95 km/h) Optional: Class 3 and 4 (120 and 140 km/h)

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.
✓ Replaceable panels with transparent windows.

MOTORIZATION

Element	Characteristics
Operator	Irreversible gear motor for intensive use Angel Mir, including position switches driven by the output shaft of the reducer.
Electric motor	High output speed.
Location	On one side of the head.
Position switches	Mechanical.
Safety brake	External.
Shaft	Solid with output for elastic connection between the motor and the shaft to absorb the vibrations and to increase the motor reliability.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts Frequency in Hz	0.4...2 CV: 230 V three-phase. 2...5.5 CV: 230 / 400 V three-phase. 50 Hz.
Power	0.4...5.5 CV / 0.29...4.05 kW, depending on door sizes.
Protection IP	IP 54.
Max manoeuvres hour	60.

Motor options	
✓	Motor protection, with or without lid, made of galvanized steel sheet, painted same colour as the door.
✓	Special voltages and frequencies.
✓	Moisture-proof protection joint for the electro brake.

Control panel	
Model	RSPV PREMIUM.
Keys on exterior lid	Switches for opening, closing and emergency stop. Voltage breaker.
Logic controller	Adjustable relay.
Frequency variator	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller. Switches for opening and closing through maintained contact and basic programming.
Control box IP	ABS, with input / output cable glands.
Protection	IP 65.
Voltages	Power supply: 230 V single-phase or 230/400V three-phase for large size doors. Manoeuvre: 24V DC.
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected by aluminium removable canal fixed to the foot of the door on plastic supports.

Control panel options	
✓	Special voltages and frequencies.
✓	Fiberglass control box with increased IP or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× Door electrical data

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules or standards.

The use of 300 mA superimmunized differentials is recommended.

STANDARD electrical characteristics	
Voltage V	From 4 until 31 m ² : 230 V single-phase.
Frequency Hz	From 31.1 until 63 m ² : 230 / 400 V three-phase. 50 Hz
Power kW	0.39...4.15 kW, according to door sizes.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Safety	Used procedure
Passage and anti-crushing	Safety curtain by infrared cells.
Anti-dragging	Transmitter – receiver photocell located on the structure jambs. (UNE EN12445:2000 / 4.1.2, UNE-EN 12453: 2000, 5.1.2)
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)
Motor	For manual operation, it must be driven by crank or chain.
Safety belt	If not requested, in red. Centred on the canvas. Only available in doors having ≤ 4 belts. With doors > 4 belts, it is not necessary (the belts themselves act as safety belts in case one of them breaks)
Safety brake	Of inertia.

Safety options
✓ Photocells curtain protecting the entire door width and up to 2500 mm height assembled inside the guides.

× Door speeds

Speeds (m/s) *	Opening	Closing
	Up to 1.8 m/s	Up to 0.8 m/s

* For very large doors, speeds may be different. Please inquire for specific cases.

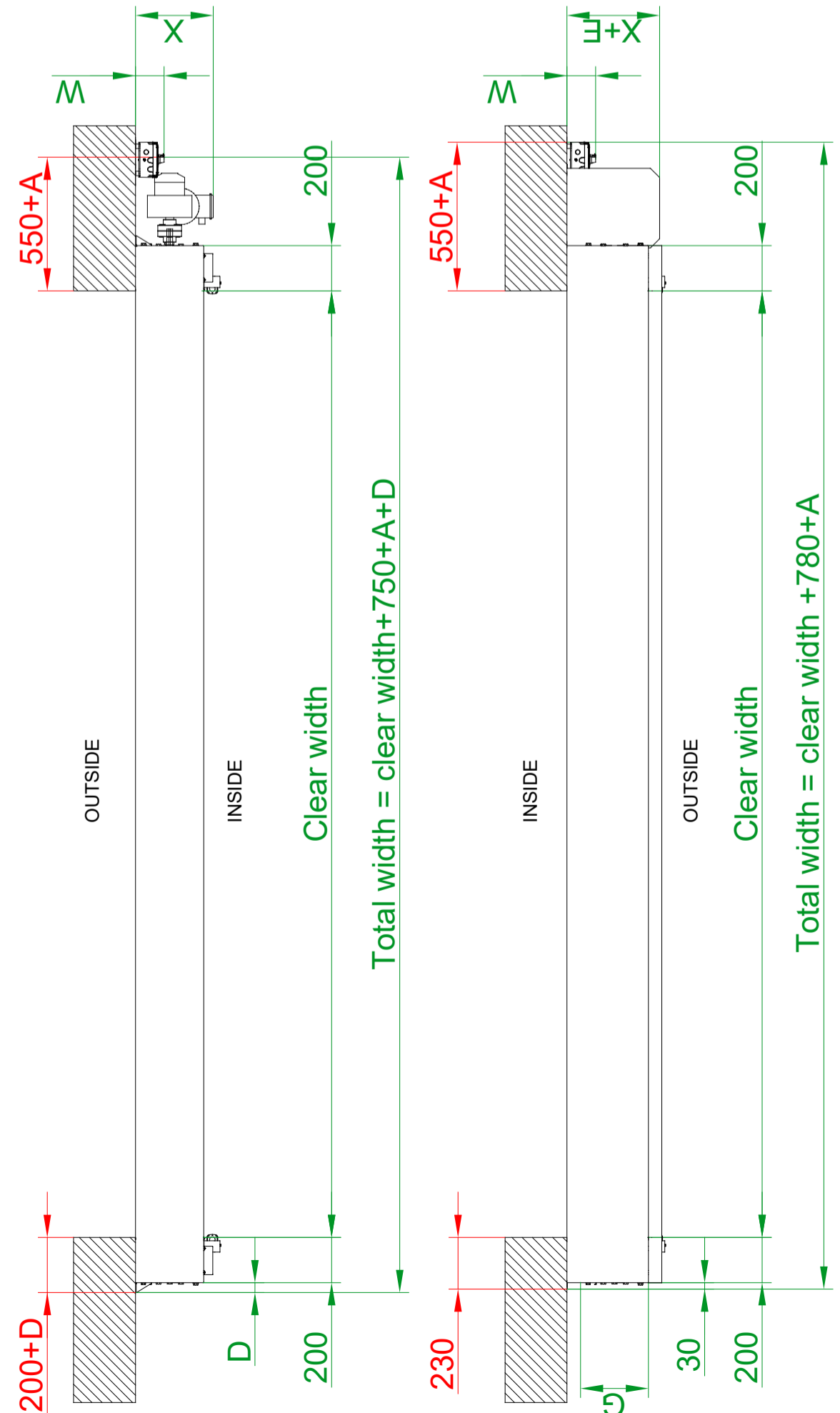
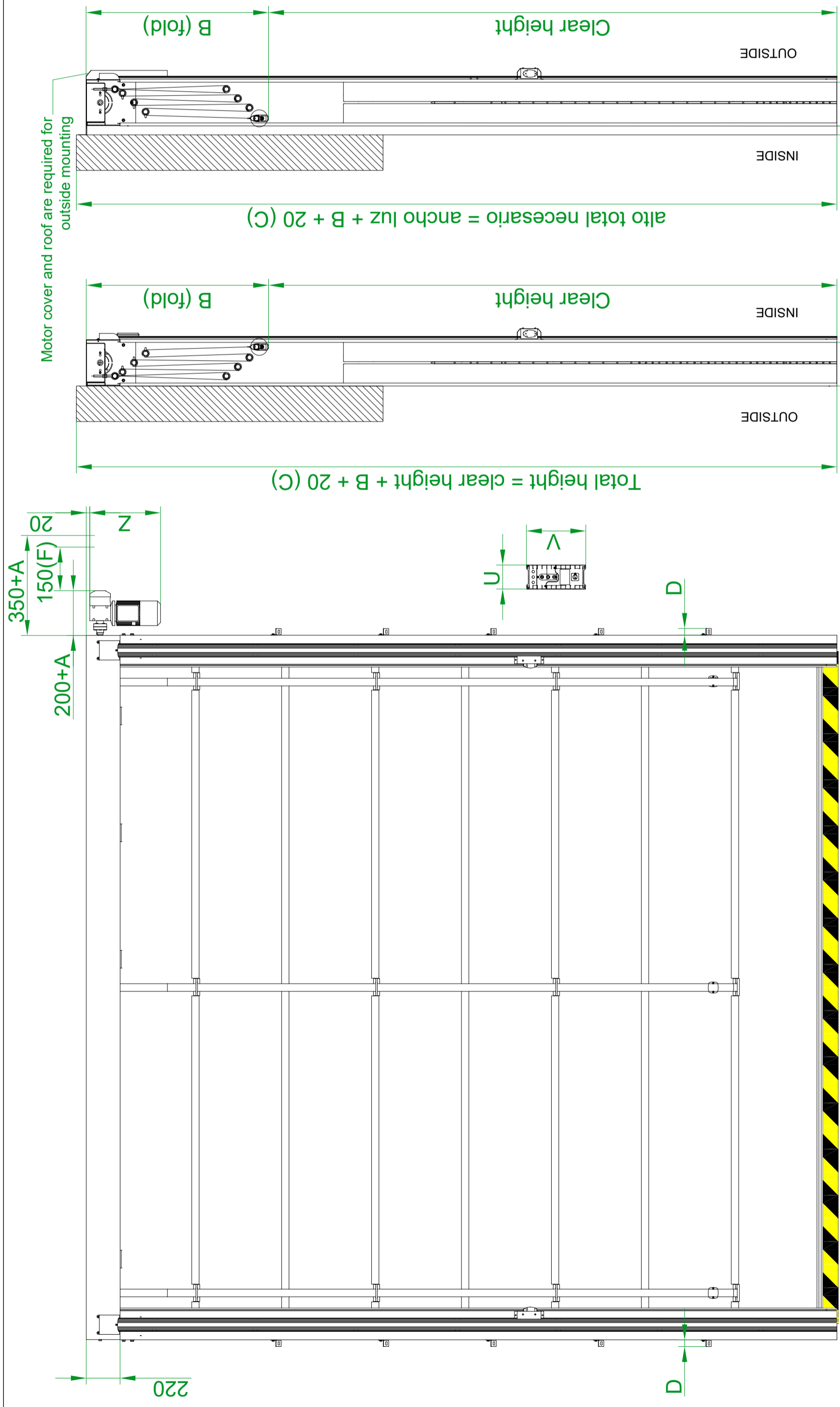
* For other speeds, please ENQUIRE

CERTIFICATES AND STANDARDIZATIONS


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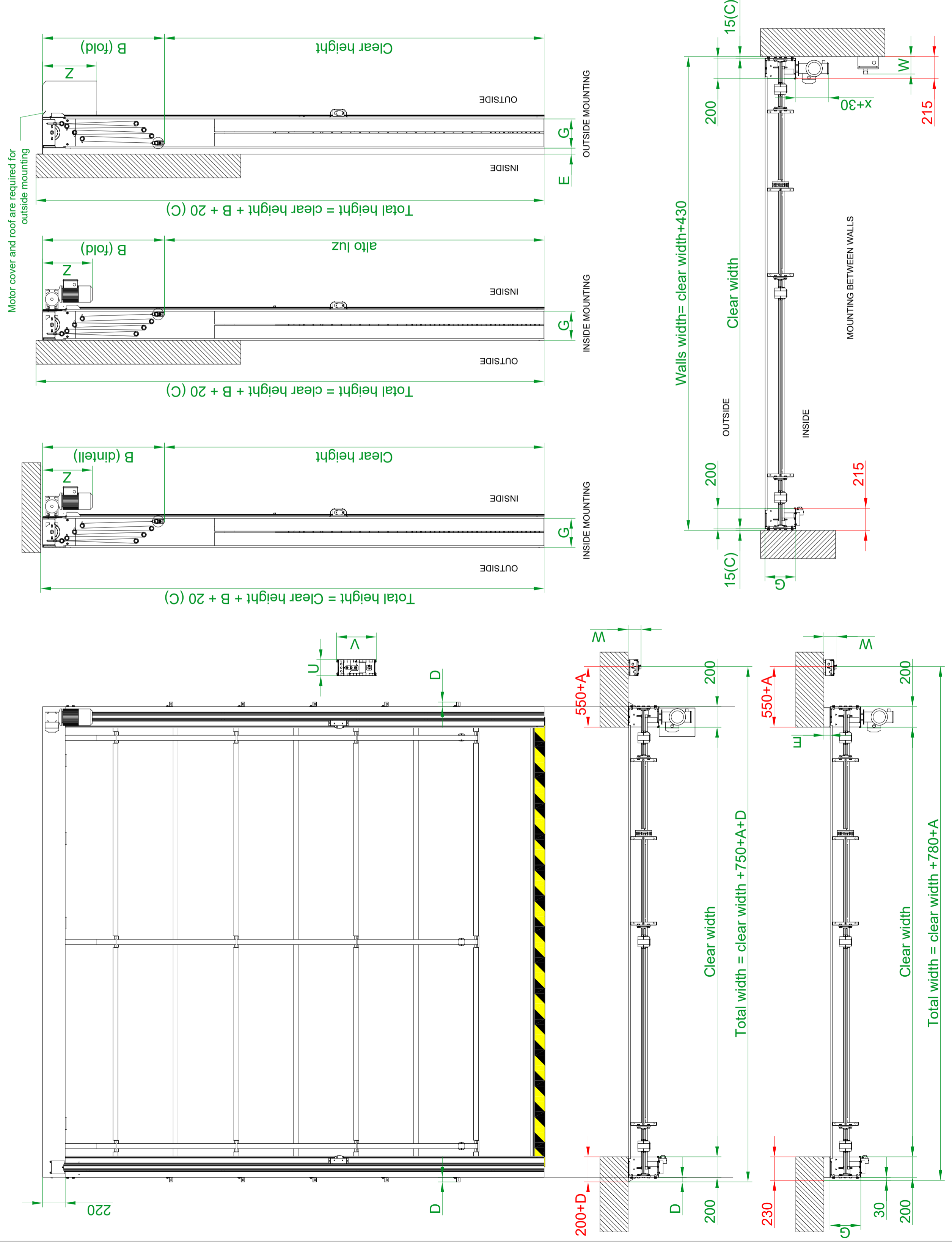
C	Installation allowance
D	-For doors up to 25m ² D=46 -For doors over 25m ² D=100
E	-For clear width up to 4000mm E=60 -For clear width over 4000 mm E=90
F	To adjust the limit switch
A,B,G, X,Z	Consult attached table
Control box	DIM. U x V x W
ELEKTROMATEN TS 970 DUAL	157 x 386 x 128



Model:	Instant Pass Premium with side motor
Maximum dimensions:	6000x5000 (width x height)
Mounting conditions:	Inside / outside
Motor:	Pact
Power supply:	Three-phase 230/400V
For special dimensions, please enquire.	

Dibujado	Nombre	Fecha	 17100 LA BISSAL Girona Spain Tel. +34 972640620 Fax. +34 972642451
Comprobado	ofitecnich	13/01/16	
Familia	Rápidas	Título	Instant Pass
Tipo	Instant Pass	Código	Conjunto al que pertenece. xxxxxx
1/1	Material		Hoja 1 de 3

C	Installation allowance
D	-For doors up to 25m ² D=46 -For doors over 25m ² D=100
E	-For clear width up to 4000mm E=60 -For clear width over 4000 mm E=90
F	To adjust the limit switch
A,B,G, X,Z	Consult attached table
Control box	DIM. U x V x W
ELEKTROMATEN TS 970 DUAL	157 x 386 x 128



Model:	Instant Pass Premium with frontia motor	
Maximum dimensions:	6000x5000 (width x height)	
Mounting conditions:	Inside / outside	
Motor:	Pact	
Power supply:	Three-phase 230/400V	
For special dimensions, please enquire.		
Dibujado	Nombre	Fecha
Comprobado	off technical	13/10/15
Familia	Rápidos	
Tipo	Instant Pass	
Material		

INSTANT ROLL

ROLLING WINDBREAK SPEED DOOR

The model INSTANT ROLL from Angel Mir is a rolling speed door suitable for interior or exterior areas depending on the size.

It withstands moderate air or wind pressures or depressions, without undergoing wear, tears or deformations, remaining therefore unchanged for many years.

Maximum sizes indoors: 5000 x 5000 with a wind tolerance class 0

Maximum sizes outdoors: 4000 x 4000 with a wind tolerance class 1

STRUCTURE

General:

- Self-supporting (it has to be fastened to a structure or wall)

Element	Material	Details
Guide	Galvanized steel sheet	Profiled making up a very resistant column.
Edges	Protected with nylon industrial brush, on aluminium fastening profile.	To increase the air sealing and eliminate friction with the canvas.
Base	Galvanized steel sheet	It has holes for its fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.
Finishing	Painted grey RAL 7046 or another RAL colour chosen by the customer.	

× Head:

Element	Material	Details
Crosspiece	Galvanized steel sheet.	Box-shaped.
Accessible back lid	Galvanized steel sheet.	For access to the internal machinery.
Side supports	Galvanized steel sheet.	It has housings for the ball bearings. Welded to the crosspiece. .
Shaft	Aluminium drum.	Of Ø110mm reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel.	Of Ø25.4 mm with keyway along its entire length.
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear-motor, shaft, etc.).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid bulging or movements due to the shaft rotation.

Structure options

- ✓ Stainless steel AISI 304 or 316.

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Rectangular tubular profile round shaped made of fiberglass and polyester composite. Depending on the setting, they are inserted with solid composite profile.		Manufactured by poltrusion.
Skirting board	Galvanized steel tube.		To support the contact band.
Fitting to the ground	Bottom bag of polyester coated with PVC.		Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquered on both sides; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Components	Composition
Characteristics of resistance	Resistance to the wind	Standard: Doors >4000 x 4000: Class 0 (without wind forecast). Standard: Doors <4000 x 4000: Class 1 (80 km/h).
Other resistances to the wind		To enquire.

Canvas options
✓ PVC windows. Transparent glass quality 1mm thick. Positive temperatures.

MOTORISATION

Element	Characteristics
Operator	Irreversible gear motor for intensive use from Angel Mir, with position switches driven by the output shaft of the reducer.
Situation	On one side of the head.
Position switches	Mechanical.
Shaft	Solid, with exit for flexible connection between the motor and the shaft to absorb vibrations and increase the engine reliability.
Electrobrake	For precise positioning and canvas lock.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts	230 / 400 V three-phase
Frequency in Hz	50 Hz
Power	0.4...0.75CV / 0.29...0.55 kW, depending on door sizes.
Protection IP	IP 54

Motor options
✓ Front motor with chain drive.
✓ Covering motor lid of painted galvanized steel sheet.
✓ Special voltages and frequencies.
✓ Anti-moisture protection joint for the electrobrake.

Control panel	
Model	RSPV
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Programmable logic controller	Programmable relay.
Frequency inverter	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase
Display registering status and information	Reports on: position, kind of failure and operation counter. Switches for opening and closing through maintained contact and basic programming.
Control box IP	Painted steel, with input/output cable glands.
Protection	IP 65 offset with cable glands. IP 55 when assembled at the bottom of the door.
Voltages	Power supply: 230 V single-phase. Manoeuvre: 24V
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected by aluminium accessible channel, fixed at the door foot by plastic supports.

Control panel options
✓ Special voltages and frequencies.
✓ Fiberglass control box with increased or stainless steel IP.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules and standards.

The use of 300mA differential switches is recommended.

STANDARD electrical characteristics	
Voltage V	230 V single-phase
Frequency Hz	50 Hz
Power kW	0.39...0.65 kW, depending on door size.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in cold stores with negative temperature.

Safety	Used procedure
Passage	Photocell with transmitter / receiver located on the jambs of the structure.
Anti- crushing	Wireless contact band on main edge.
Vison	Canvas bottom painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)

× **Door speeds**

Speeds (m/s) *	Opening	Opening deceleration until	Closing
	0.82 m/s	0.6 m/s	0.6 m/s

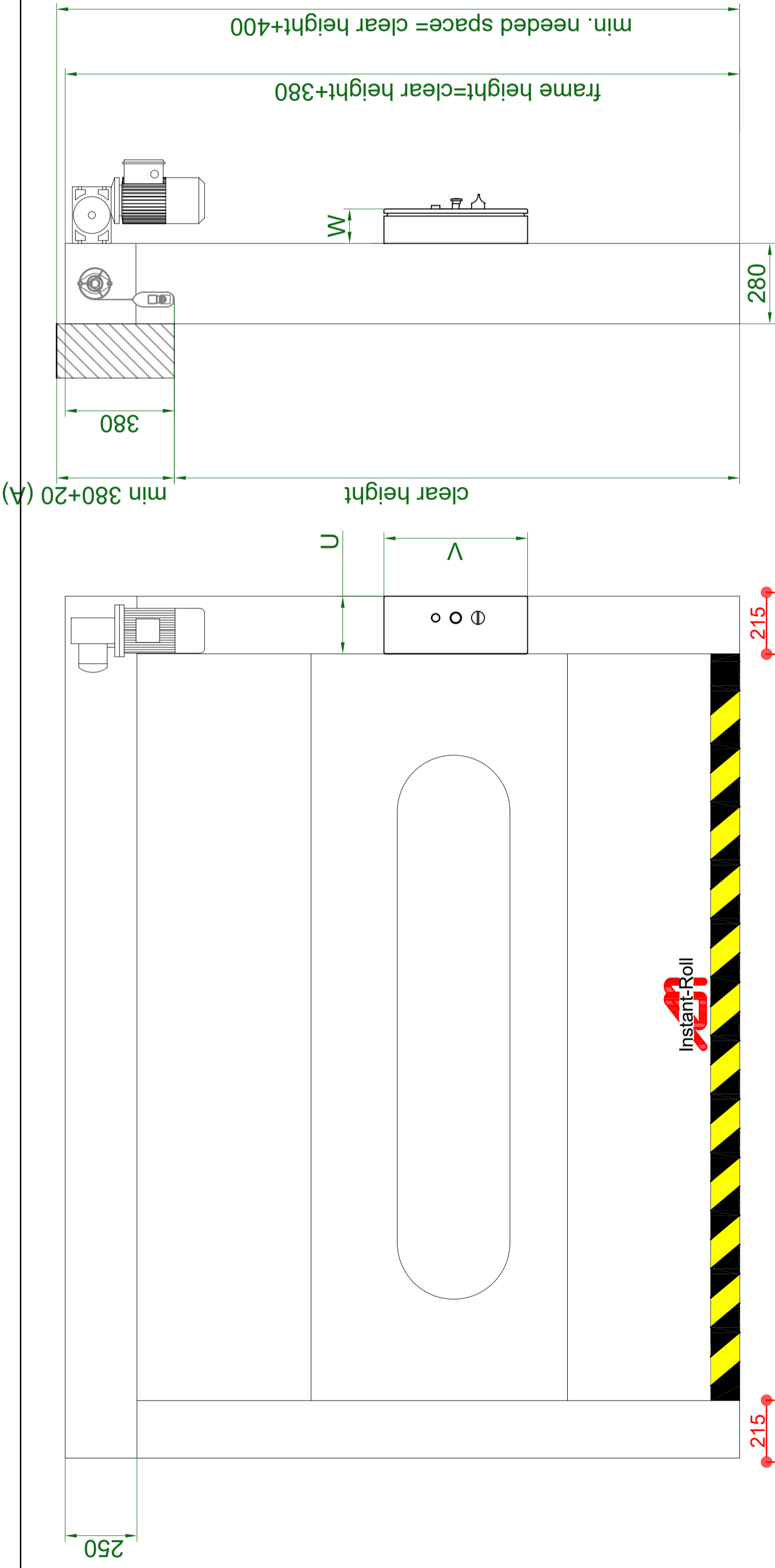
For other speeds, please ENQUIRE

General options
✓ Certified doors ATEX for explosive environments (dust, paint or gas).

For special sizes, please ENQUIRE

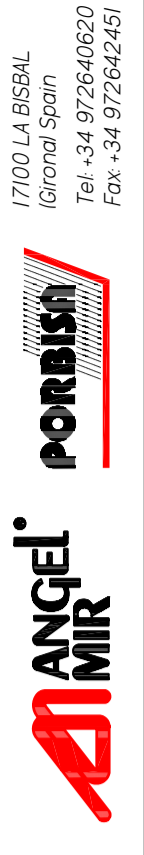
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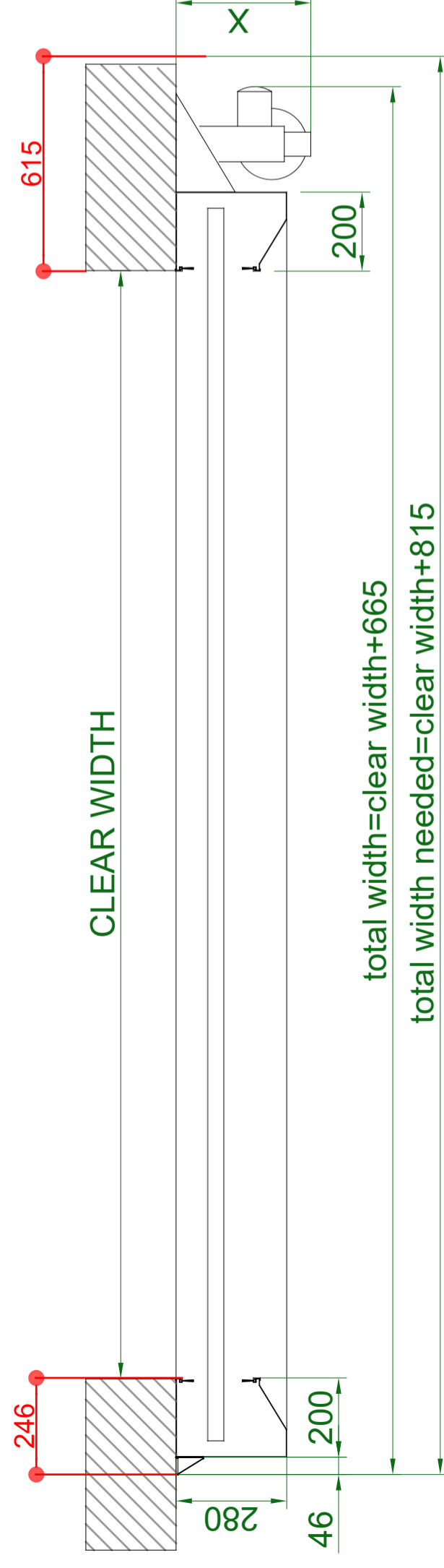
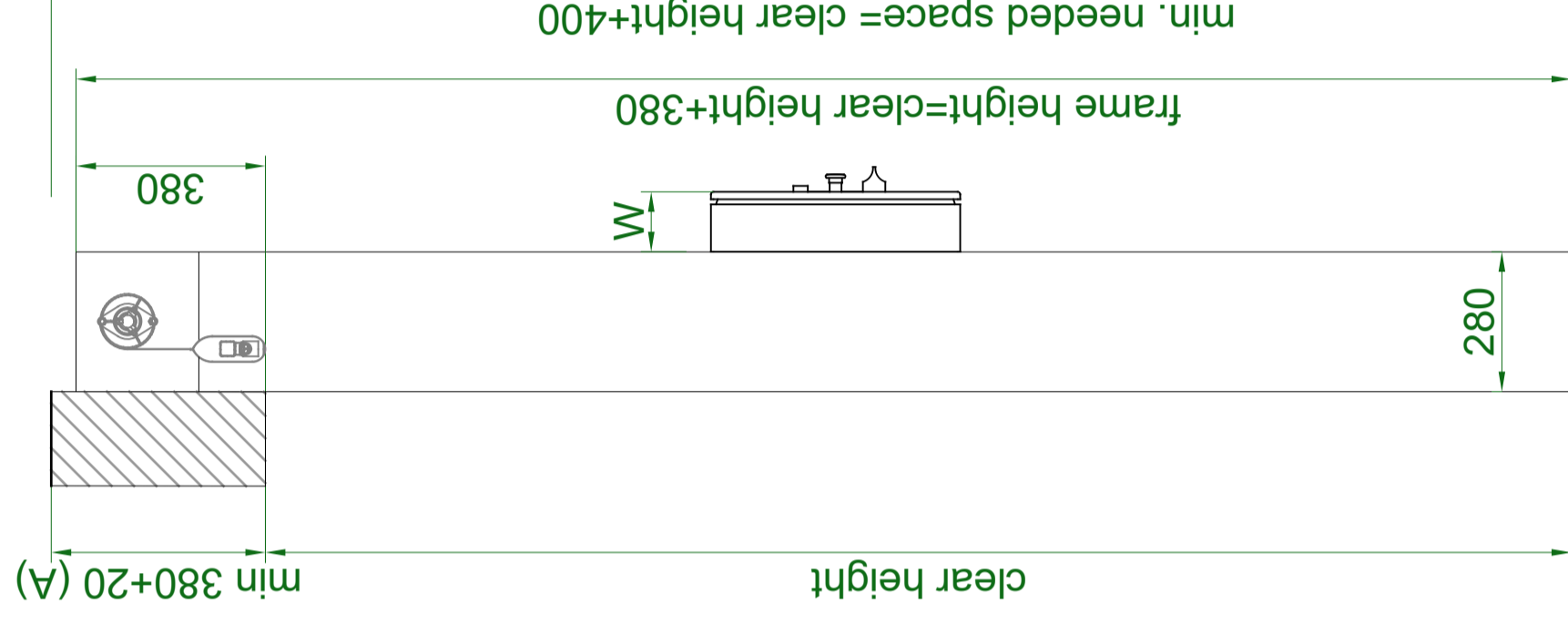
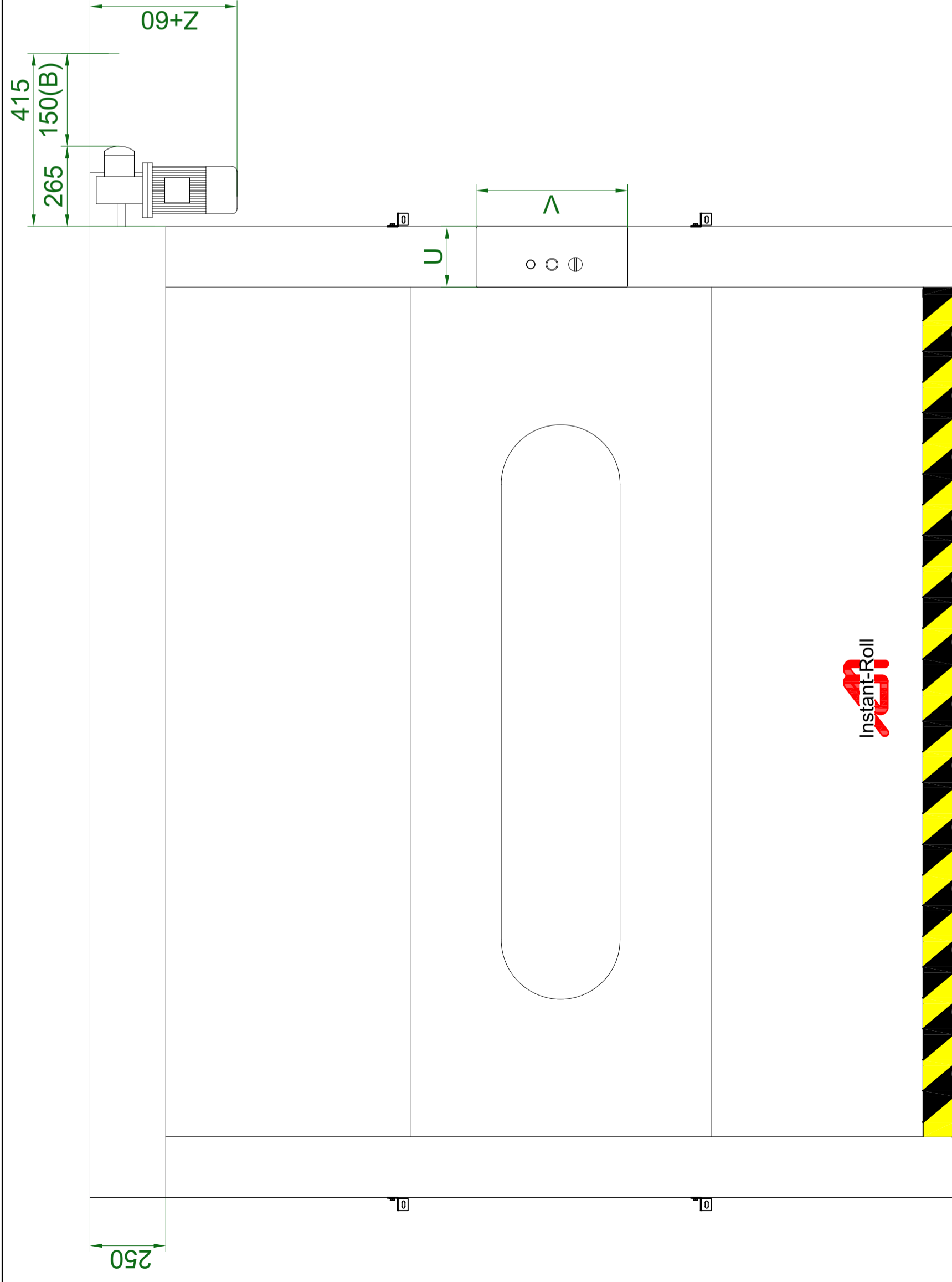


A	Installation allowance	DIM. U x V x W
ELECTRICAL BOX		200 x 500 x 160
RSP		300 x 400 x 150
RSP INOX		330 x 430 x 200

Model:	Instant Roll with frontal motor	
Maximum dimensions:	5000x5000 (width x height)	
mounting conditions:	door mounted between walls	
Motor:	Pact	
Electrical supply:	three phase 230/400 III	
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	ofi.technical	18/04/12
Familia:	Rápidas	
Tipo: Instant Roll	Título: Instant Roll	
Material:	Código: xxxxxx	
Conjunto al que pertenece:		Hoja 1 de 3




DOOR DIM.	MOTOR	POWER	CURRENT (A) 230/415 V	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE	MOTOR DIM XxZ
up to 9 m ²	0,5 CV	0,37 KW	1,7/1,0	3x230/400-50	4x1,5+earth/10A	245 x 400
up to 21 m ²	0,75 CV	0,55 KW	3,8/2,2	3x230/400-50	4x1,5+earth/10A	300 x 470
up to 25 m ²	1CV	0,75 KW	3,6/2,1	3x230/400-50	4x1,5+earth/10A	300 x 470



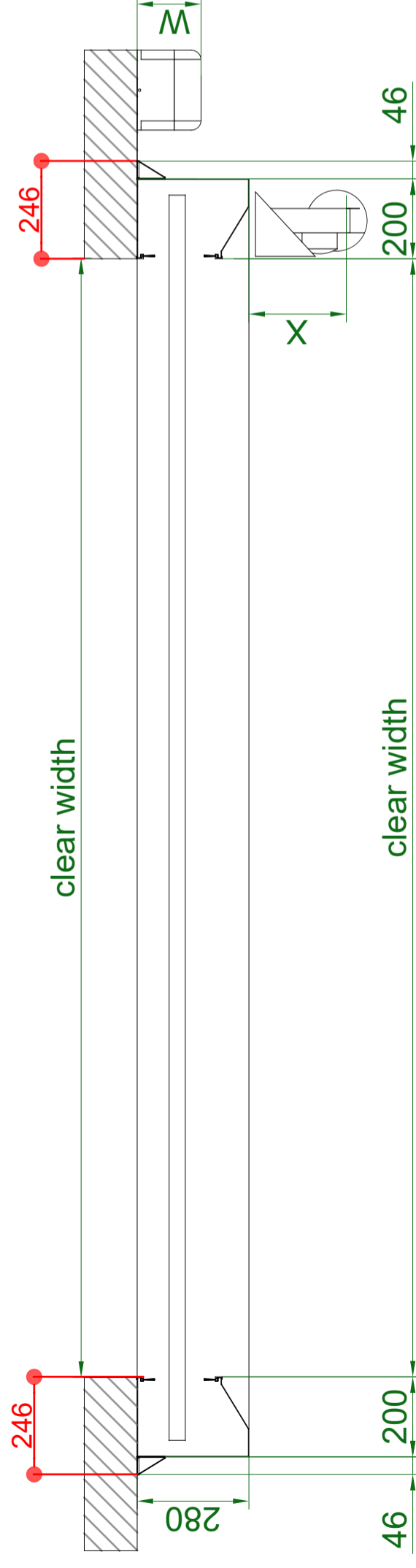
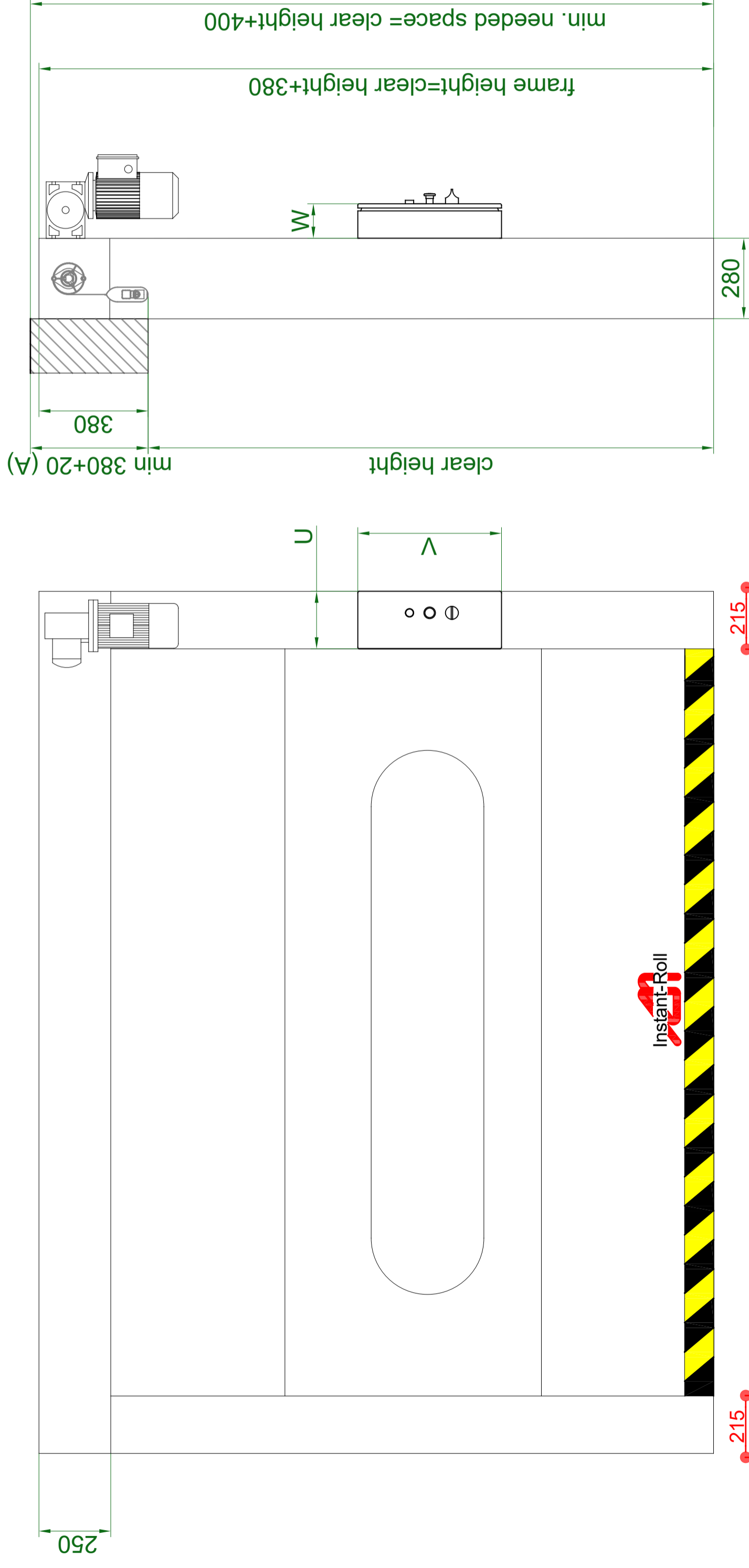
ELECTRICAL BOX	DIM. U x V x W
RSP	200 x 500 x 160
RSP INOX	300 x 400 x 150
RSP PLM	330 x 430 x 200

Model:	Instant Roll with lateral motor	
Maximum dimensions:	5000x5000 (width x height)	
mounting conditions:	door inside mounted	
Motor:	Pact	
Electrical supply:	three phase 230/400 III	
For special dimensions consult our technical office		

DOOR DIM.	MOTOR	POWER	CURRENT (A) 230/415 V	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE	MOTOR DIM XxZ	Installation allowance	
							A	B
up to 9 m ²	0,5 CV	0,37 KW	1,7/1,0	3x230/400-50	4x1,5+earth/10A	245 x 400	A	For stroke limit switch setting
up to 21 m ²	0,75 CV	0,55 KW	3,8/2,2	3x230/400-50	4x1,5+earth/10A	300 x 470	B	
up to 25 m ²	1 CV	0,75 KW	3,6/2,1	3x230/400-50	4x1,5+earth/10A	300 x 470		


ANGEL MIR
 17100 LA BISBAL
 Girona Spain
 Tel. +34 972640620
 Fax. +34 972642451

Dibuñado: ofi.technical
 Comprobado: Rápidas
 Fecha: 18/04/12
 Título: Instant Roll
 Tipo: Instant Roll
 I/I: Material: Código: xxxxxx





A Installation allowance	
ELECTRICAL BOX	DIM. U x V x W
*RSPV (standard)	200 x 500 x 125
RSPV PLM POLIESTER	330 x 430 x 200
RSPV ECO	230 x 310 x 130
RSPV INOX	300 x 400 x 150

Model:	Instant Roll with frontal motor	
Maximum dimensions:	5000x5000 (width x height)	
mounting conditions:	door mounted between walls	
Motor:	Pact	
Electrical supply:	monophase 230 II	

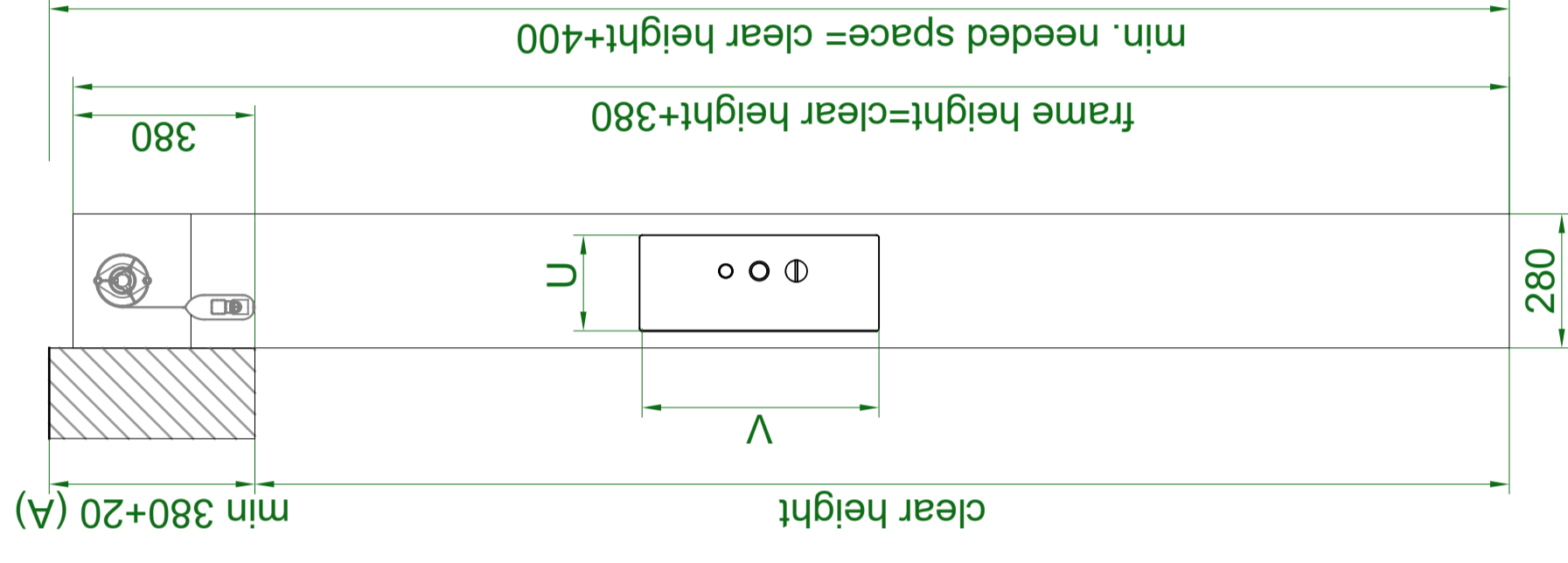
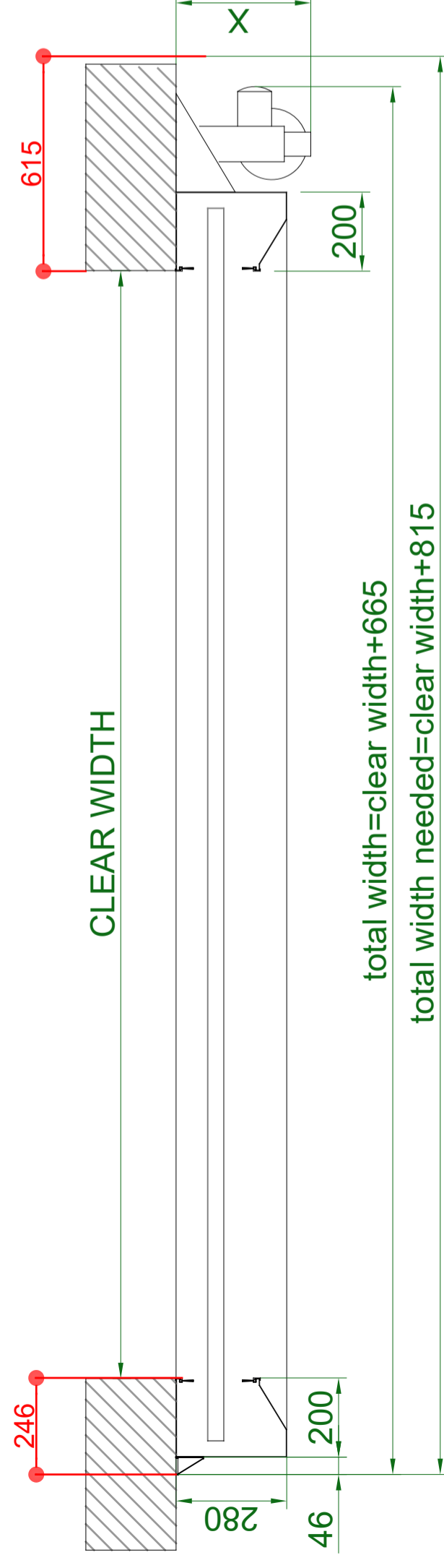
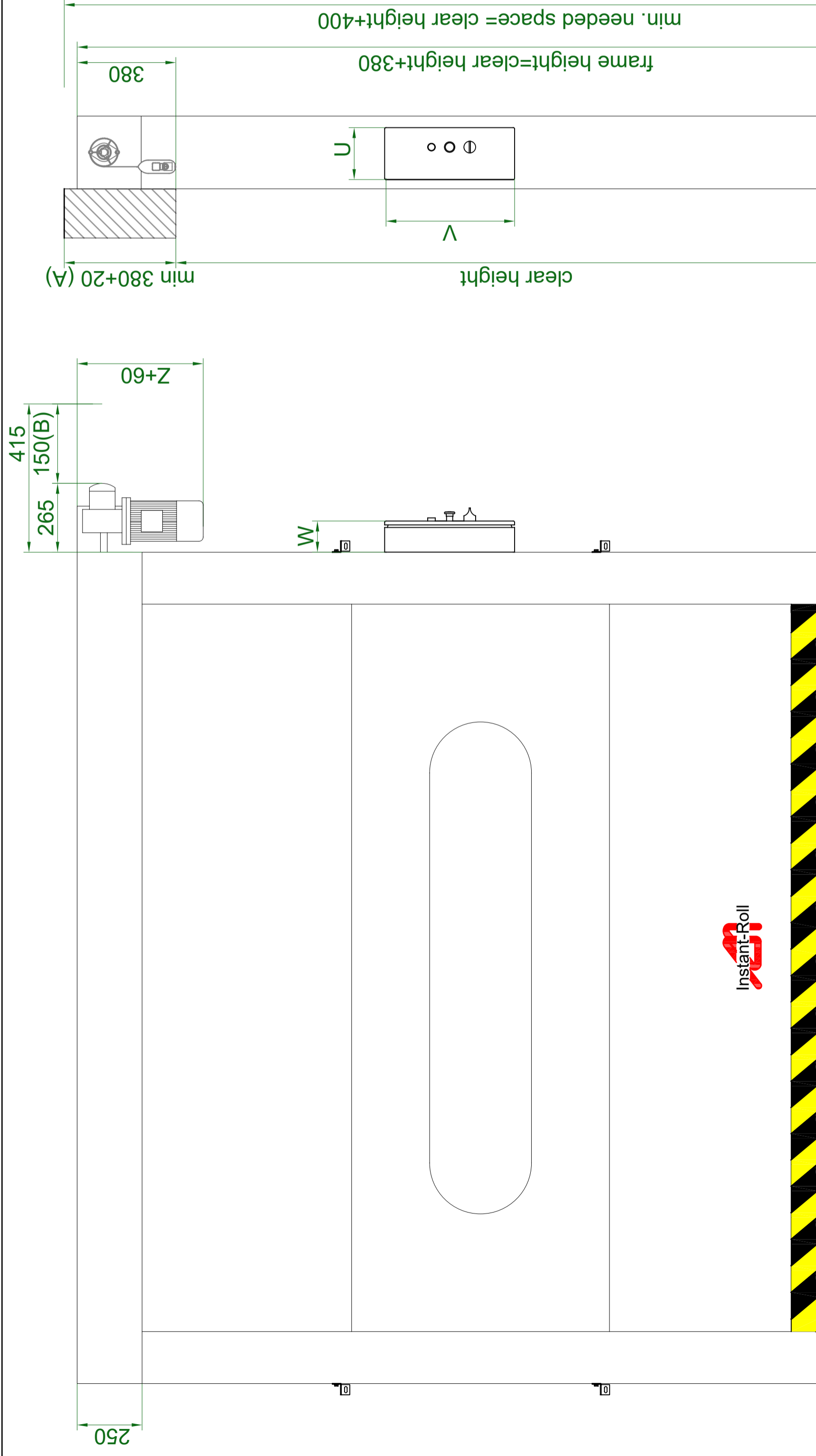
For special dimensions consult our technical office

Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	18/04/12
Familia:	Rápidas	
Título:	Instant Roll	
Tipo:	Instant Roll	
Il	Material:	

DOOR DIM.	MOTOR	POWER	CURRENT (A)	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE	MOTOR DIM XxZ
up to 9 m ²	0,5 CV	0,37 KW	1,7	2x230-50	2x1,5+earth/10A	245 x 400
up to 21 m ²	0,75 CV	0,55 KW	3,8	2x230-50	2x1,5+earth/10A	300 x 470

17100 LA BISBAL
 Girona Spain
 Tel. +34 972640620
 Fax. +34 972642451





ELECTRICAL BOX	DIM. U x V x W
*RSPV (standard)	200 x 500 x 125
RSPV PLM POLIESTER	330 x 430 x 200
RSPV ECO	230 x 310 x 130
RSPV INOX	300 x 400 x 150

Model:	Instant Roll with lateral motor	
Maximum dimensions:	5000x5000 (width x height)	
mounting conditions:	door inside mounted	
Motor:	Pact	
Electrical supply:	monophase 230 II	
For special dimensions consult our technical office		

A	Installation allowance
B	For stroke limit switch setting

DOOR DIM.	MOTOR	POWER	CURRENT (A)	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE	MOTOR DIM
up to 9 m ²	0,5 CV	0,37 KW	1,7	2x230-50	2x1,5+earth/10A	245 x 400
up to 21 m ²	0,75 CV	0,55 KW	3,8	2x230-50	2x1,5+earth/10A	300 x 470

Dibujado	Nombre	Fecha
Comprobado	ofi.technical	18/04/12
Familia:	Rápidas	Título: Instant Roll
Tipo: Instant Roll	Código: xxxxxx	
Material:	Conjunto al que pertenece: xxxxxx	

17100 LA BISBAL
 Girona Spain
 Tel. +34 972640620
 Fax. +34 972642451

INSTANT ROLL BASIC MONOPHASIC

ROLLING WINDBREAK SPEED DOOR

The model INSTANT ROLL BASIC from Angel Mir is a rolling speed door to fill medium-sized interior voids. It is perfect to divide different environments, such as passages between industrial units or enclosures on conveyors belts. Made with small steel profiles, it takes up very little space in the light void and doesn't require a lot of space on the side doorjambes and on the lintel. The platform and the steel feet provide it with a great mechanical resistance.

The canvas has a series of reinforcements that provide a good resistance to light or moderate air currents. It has a mechanism with frequency variator regulating the opening and closing speeds and has acceleration and deceleration ramps when opening and closing.

It is an intensive use door.

Maximum sizes: 3300 x 3500.

Wind resistance on standard configuration: Class 0.

CHASSIS

× General:

- × Not self-supporting. It needs to be fastened to a resistant structure. Aluminium guides on support profile of galvanized steel.

Element	Material	Details
Guide	Extruded aluminium profile.	Includes inner reinforcements.
Guide support profile	Galvanized steel sheet	
Base	Stainless steel sheet	It has holes for its fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.

× Upper platform

Element	Material	Details
Platform	Galvanized steel sheet	
Shaft lid	Galvanized steel sheet	
Shaft	Aluminium drum	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear-motor, shaft, etc.).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the rotation of the shaft.

Structure options

- ✓ Painted in RAL colour, to be chosen by customer among a wide range.

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Composite tubular profile of fiberglass and polyester		Manufactured by pultrusion.
Skirting board	Galvanized steel tube		Includes flexible elements at the ends.
Fitting to the ground	Bottom bag of polyester coated with PVC.		Yellow with black diagonal stripes.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquer on both faces, colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Components	Composition
Resistant characteristics	Wind resistance	Standard: Class 0 (without wind pressure).
Other wind resistances		To enquire.

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.

MOTORIZATION

Element	Characteristics
Operator	Angel Mir Irreversible gear motor for intensive use, including integrated position switches driven by the output shaft of the gear motor.
Location	On one side of the head.
Position switches	Mechanical.
Spring safety system	Internal.
Shaft	Void with measured keyway to receive the shaft of the door.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts	230/400 V three-phase
Frequency in Hz	50 Hz
Power	0.6...1.87 CV / 0.45...1.38 kW, depending on door sizes.
Protection IP	IP 54

Motor options	
✓	Front motor with chain drive.
✓	Protection lid for the motor in galvanized steel.
✓	Special voltages and frequencies.

Control panel	
Model	RSPV
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Logic controller	Programmable relay.
Power	Frequency inverter.
Frequency inverter	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller. Switches for opening and closing through maintained contact and basic programming.
Control box IP	PVC, with input / output cable glands.
Protection	IP 65.
Voltages	Power supply: 230 V single-phase. Manoeuvre: 24V DC.
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected with PVC standard conduit.

Control panel options	
✓	Special voltages and frequencies.
✓	Fiberglass control box with IP increased or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules or standards.

The use of 300 mA superimmunized differentials is recommended.

STANDARD electrical characteristics	
Voltage V	230 V single-phase
Frequency Hz	50 Hz
Power kW	0.39...0.65 kW, depending on door size.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE.

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in freezing cold rooms.

Safety	Used procedure
Anti-crushing	Photocells curtain protecting the entire width of the door and up to 2500 mm. height assembled inside the guides.
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)
Irreversible motor	It must be driven by crank or chain

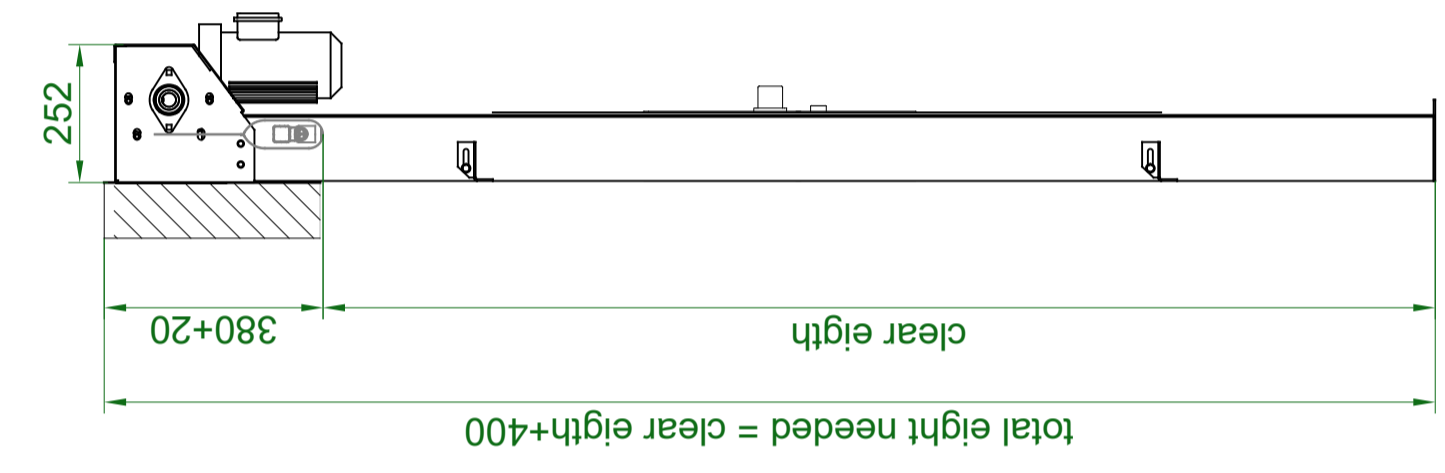
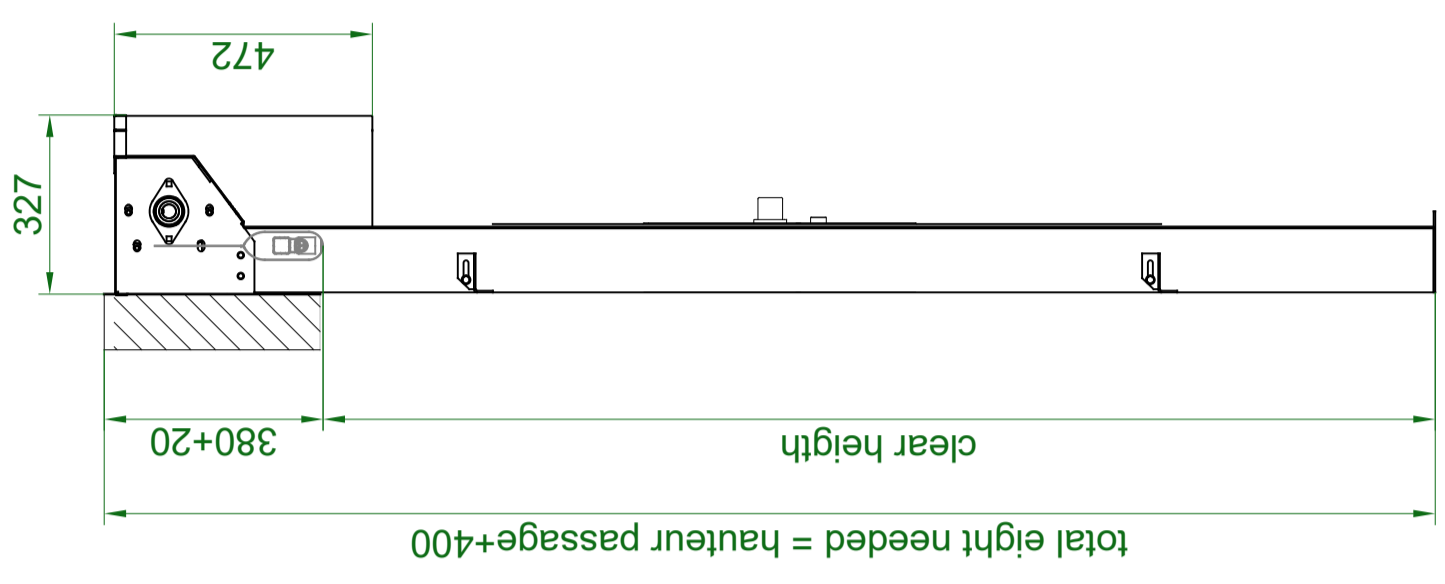
× **Door speeds**

Speeds (m/s) *	Opening	Opening deceleration until	Closing
	0.82 m/s	0.6 m/s	0.6 m/s

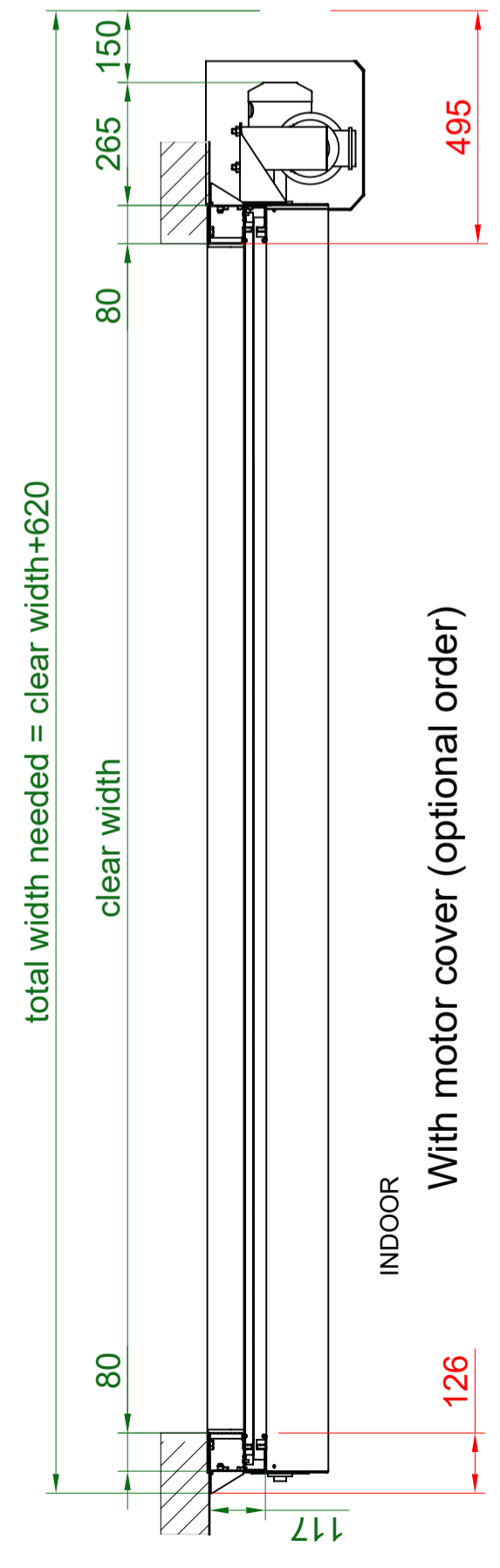
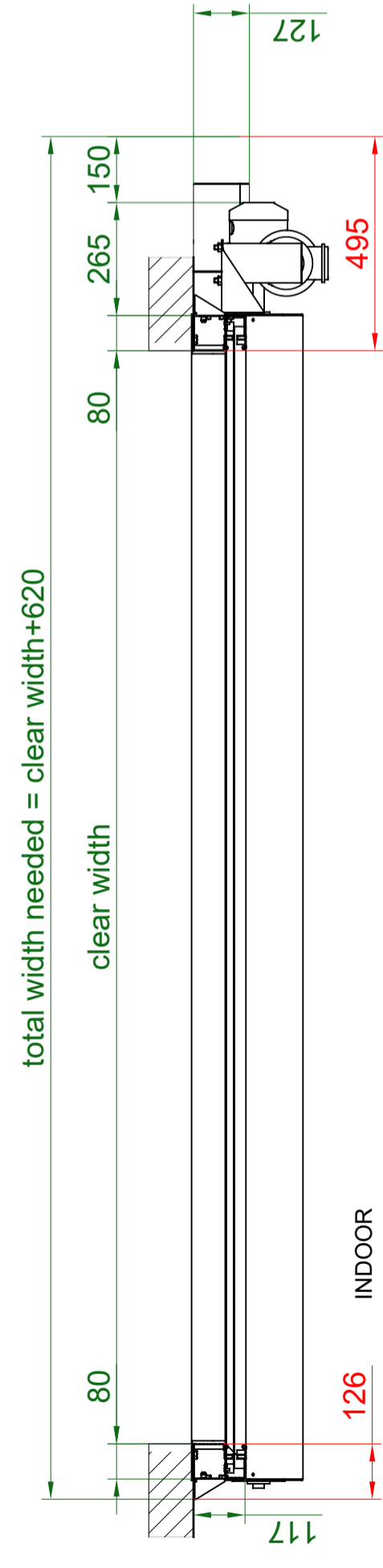
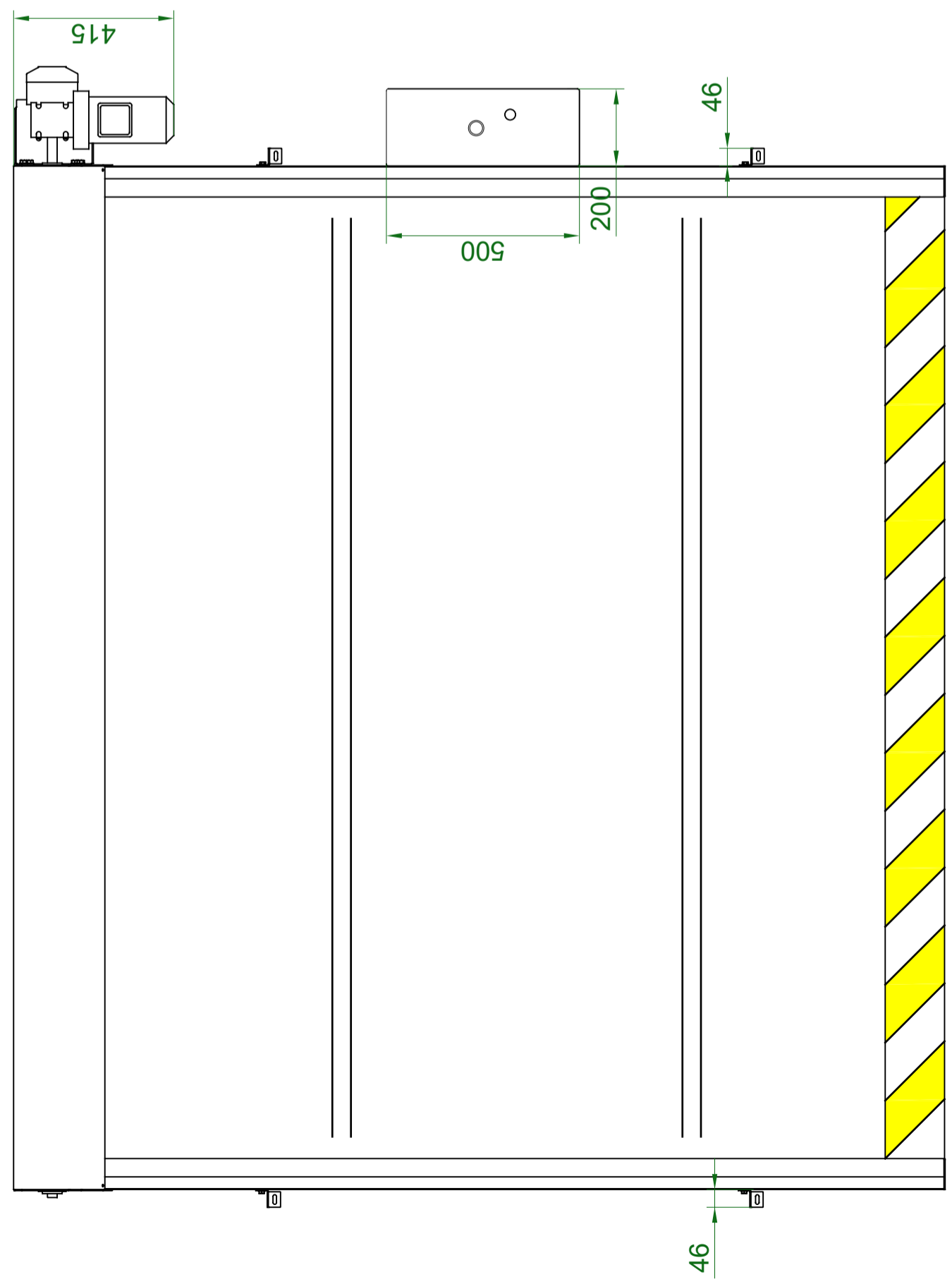
*For other speeds, please ENQUIRE

CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

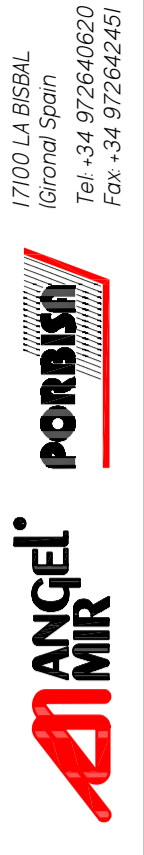


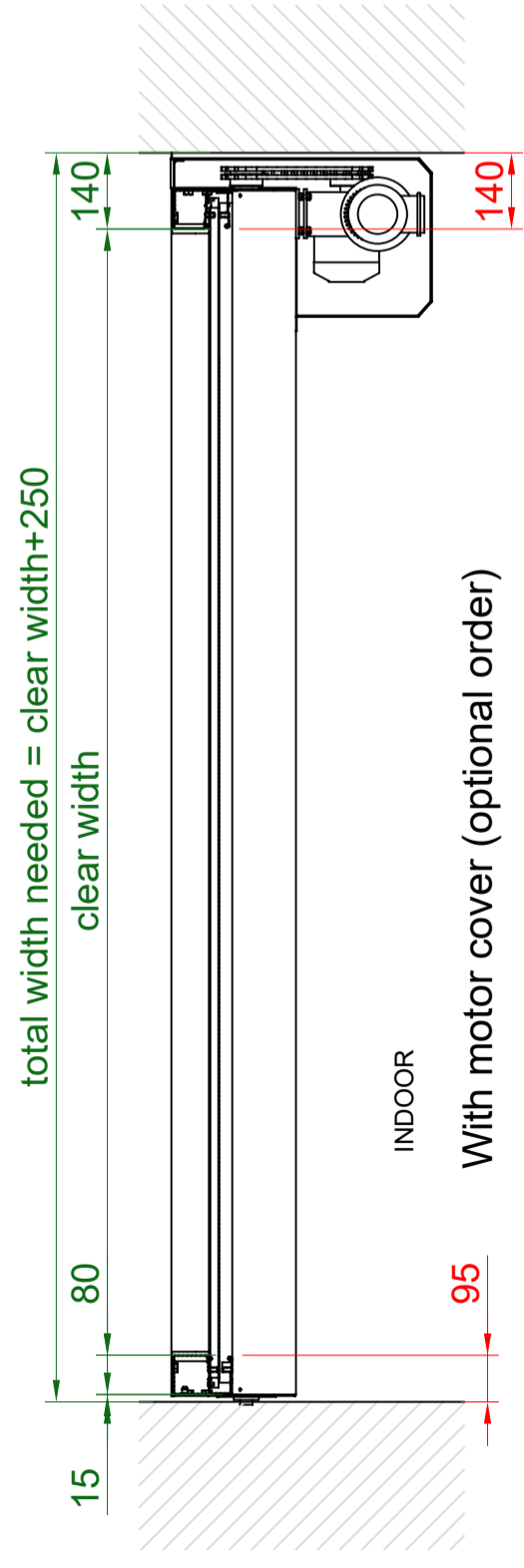
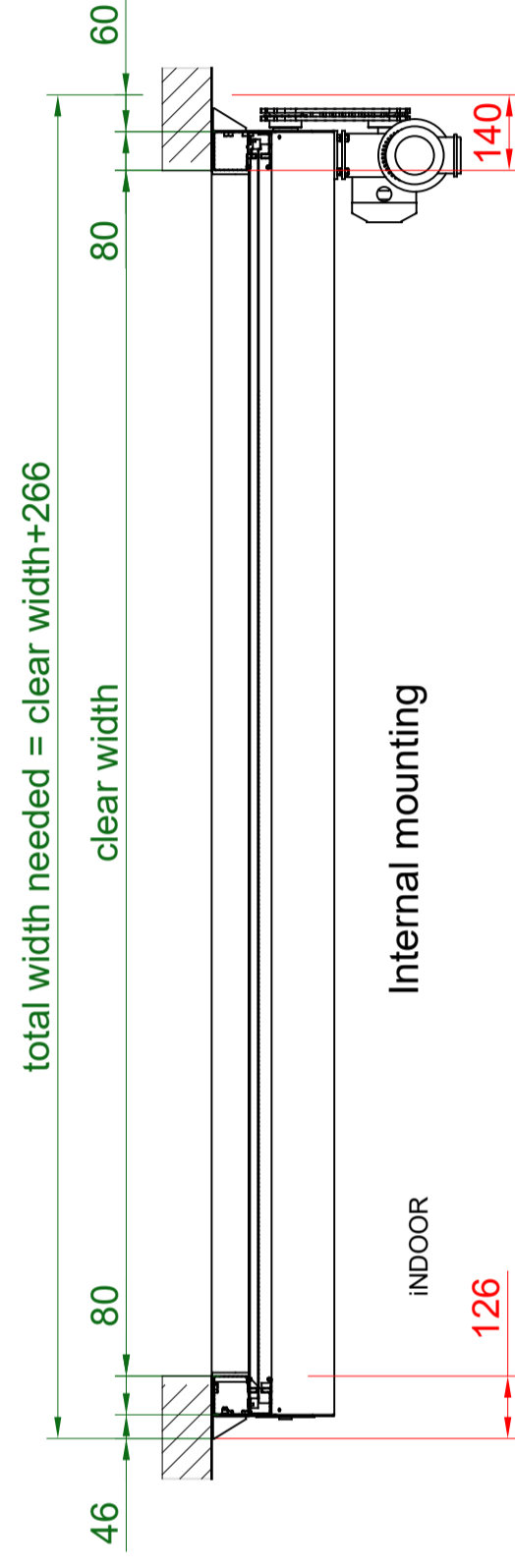
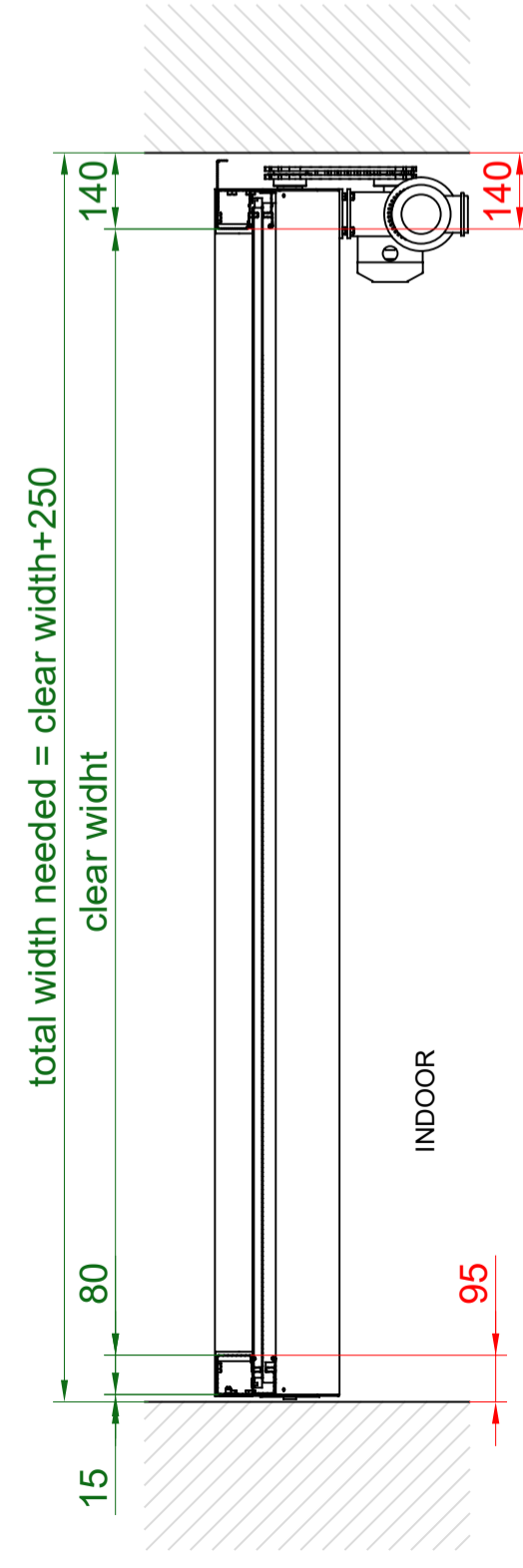
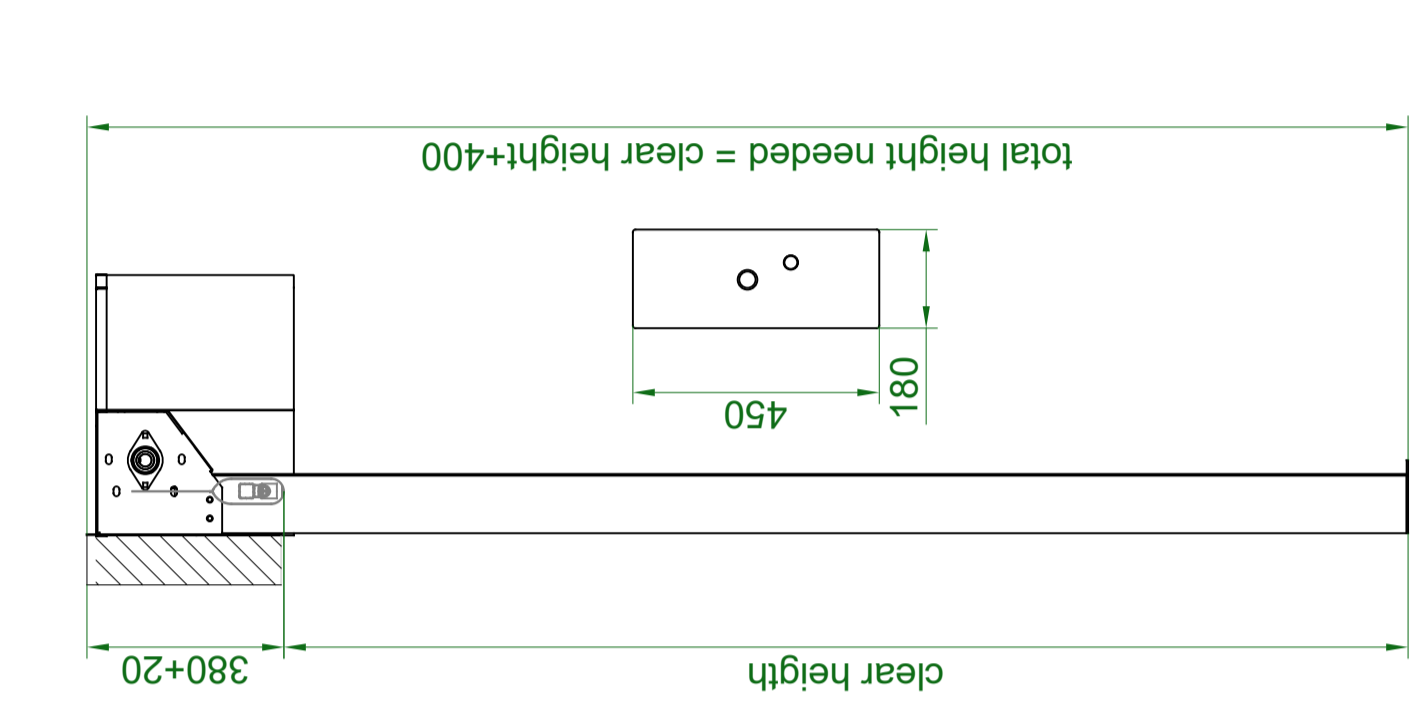
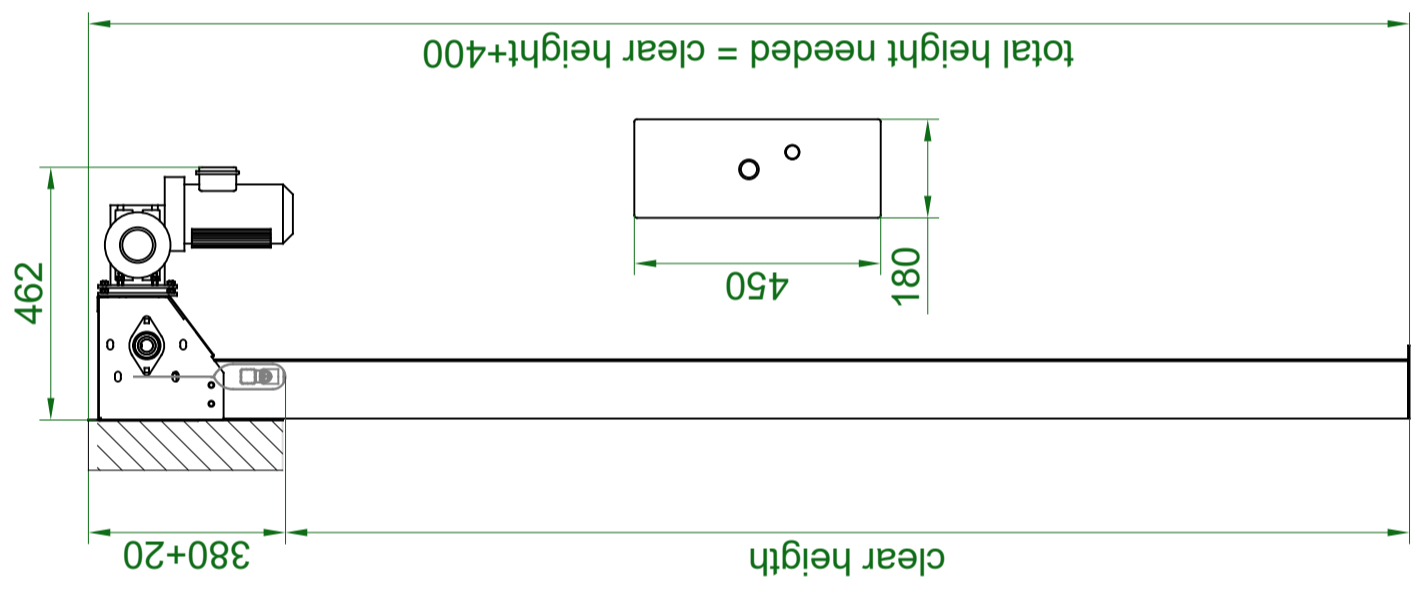
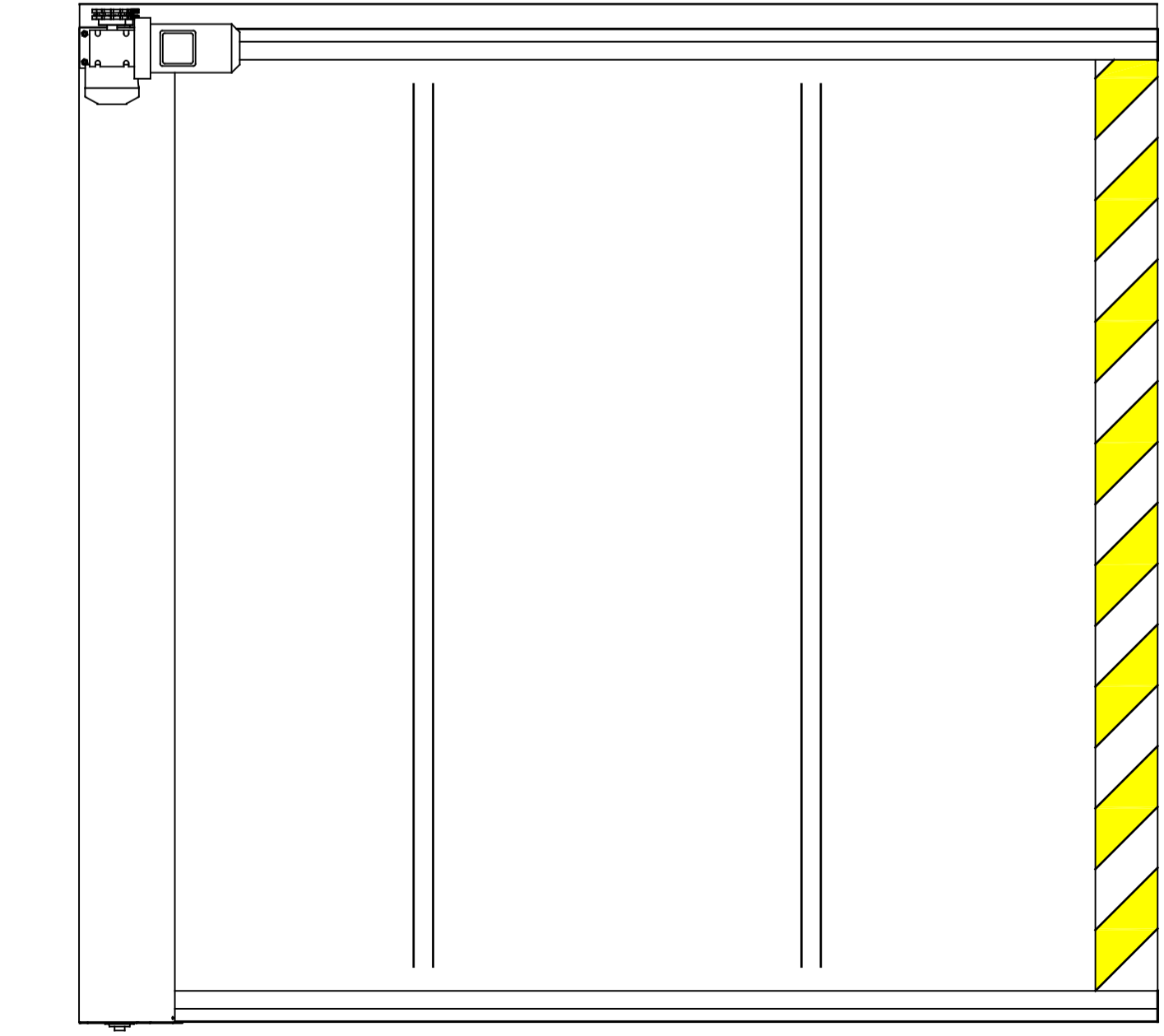
With motor cover
(optional order)



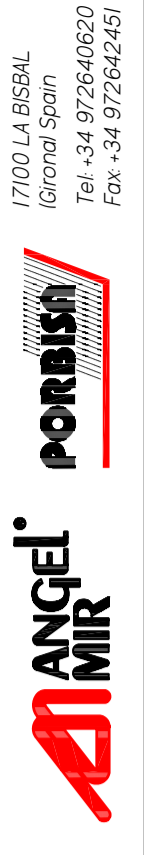
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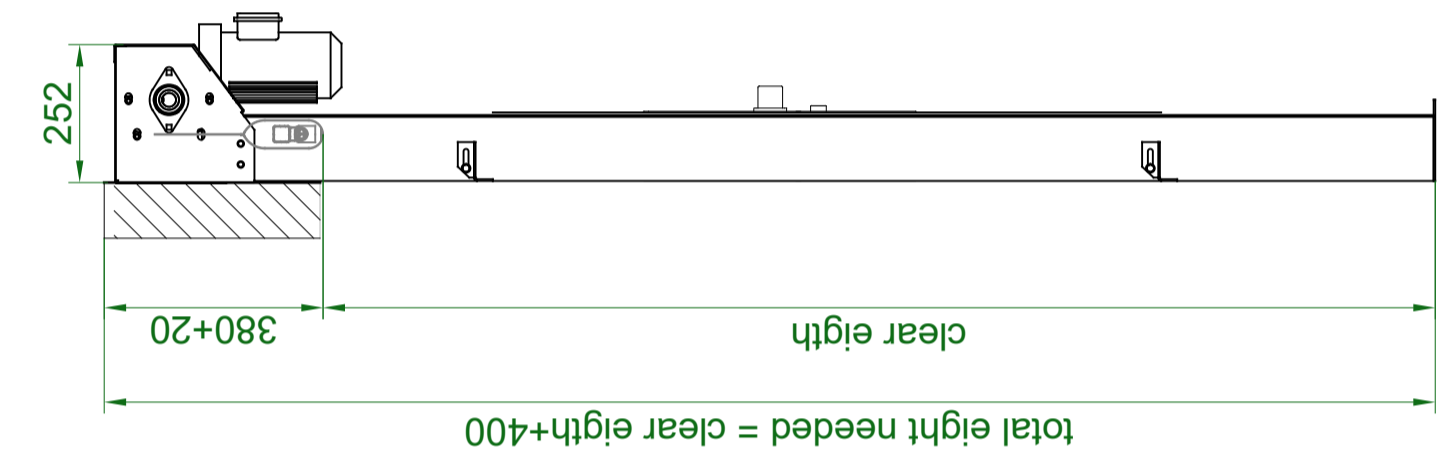
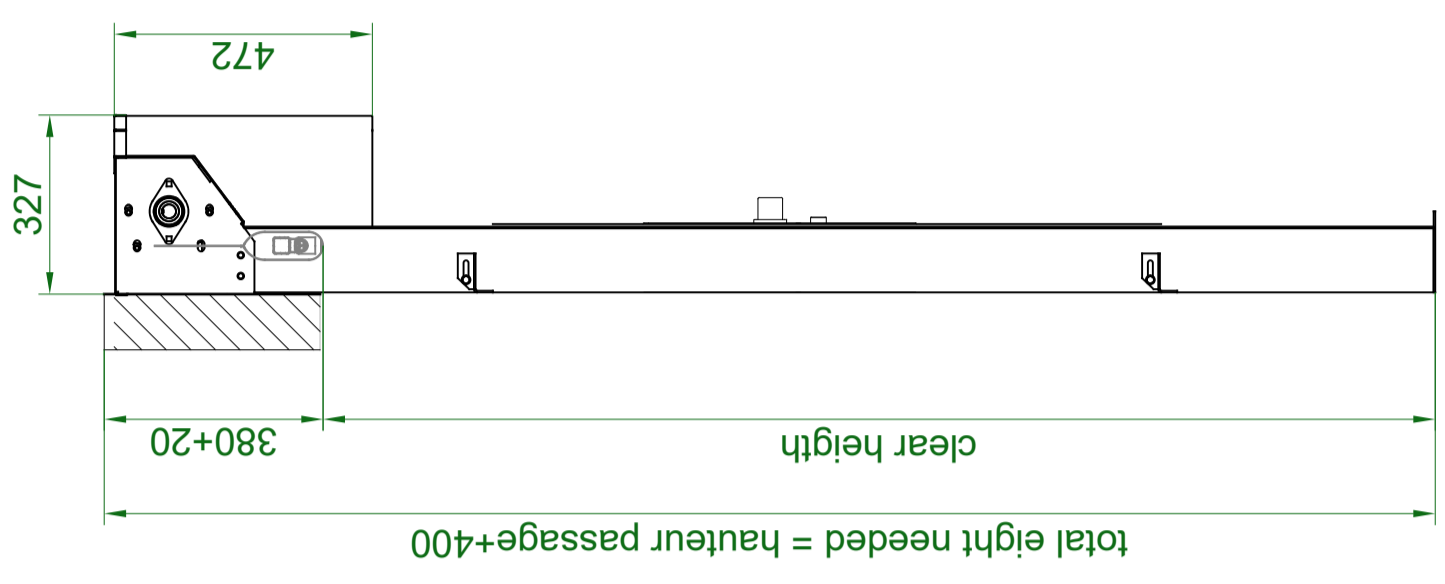
Model:	Instant Roll Basic with lateral motor	
Maximum dimensions:	3300x3500 (width x height)	
Mounting conditions:	Inside	
Motor:	Porbi	
Electrical supply	230/400V three phase	
Electrical box	RSPV	
Manual operation by crank		
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	of.technical	14/01/2016
	Esteve	14/01/2016
Familia:	Rápidas	Título: Instant Roll Basic
Tipo: Instant Roll Basic		Código:
Material:		Conjunto al que pertenece: xxxxxx
		Hoja 1 de 3



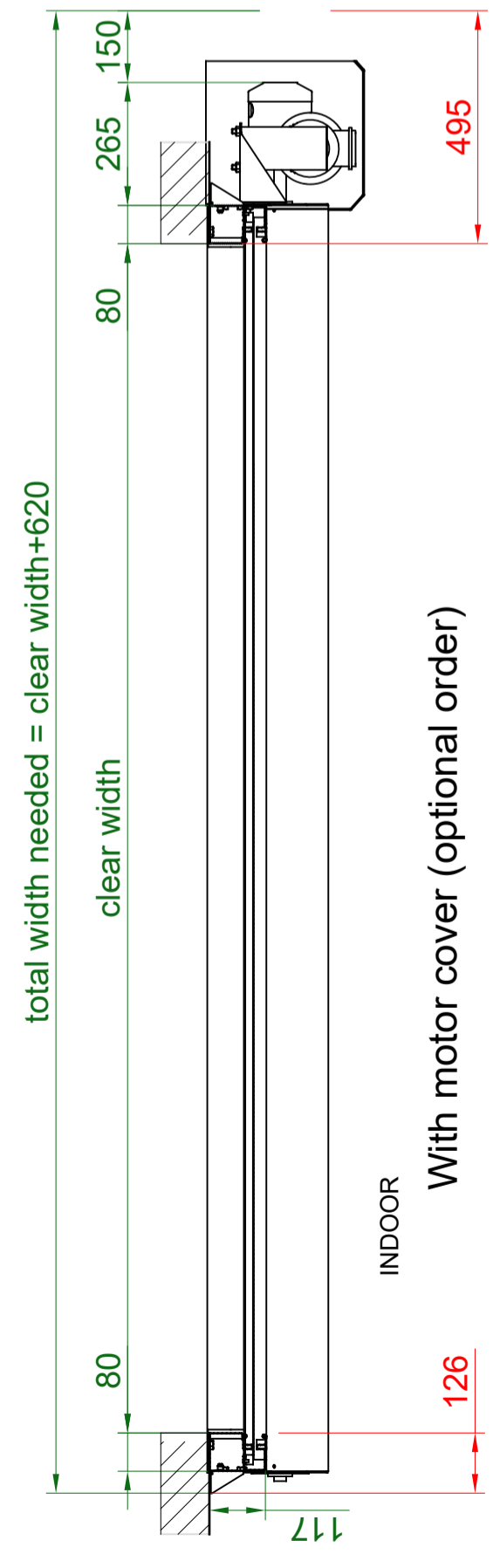
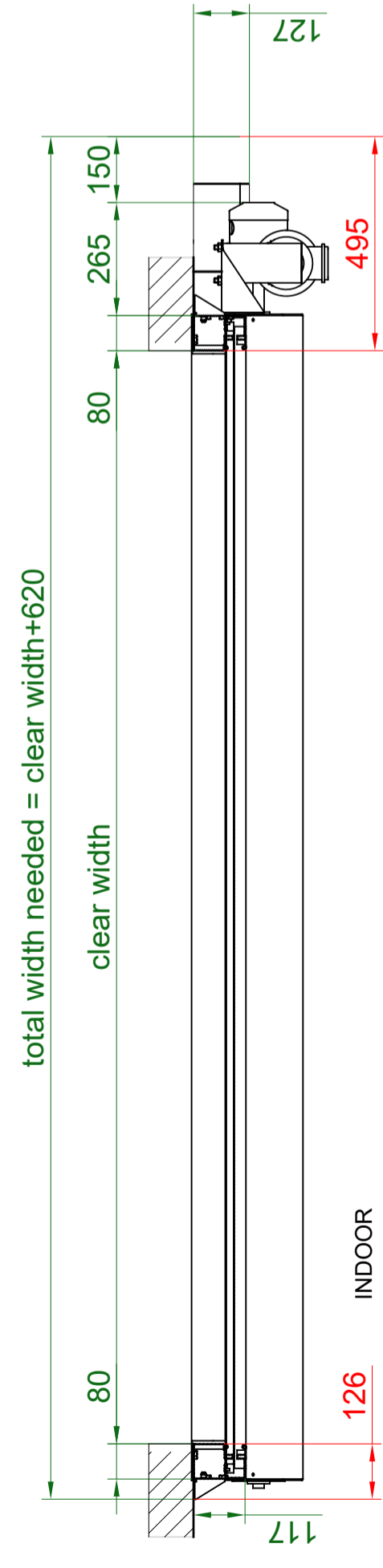
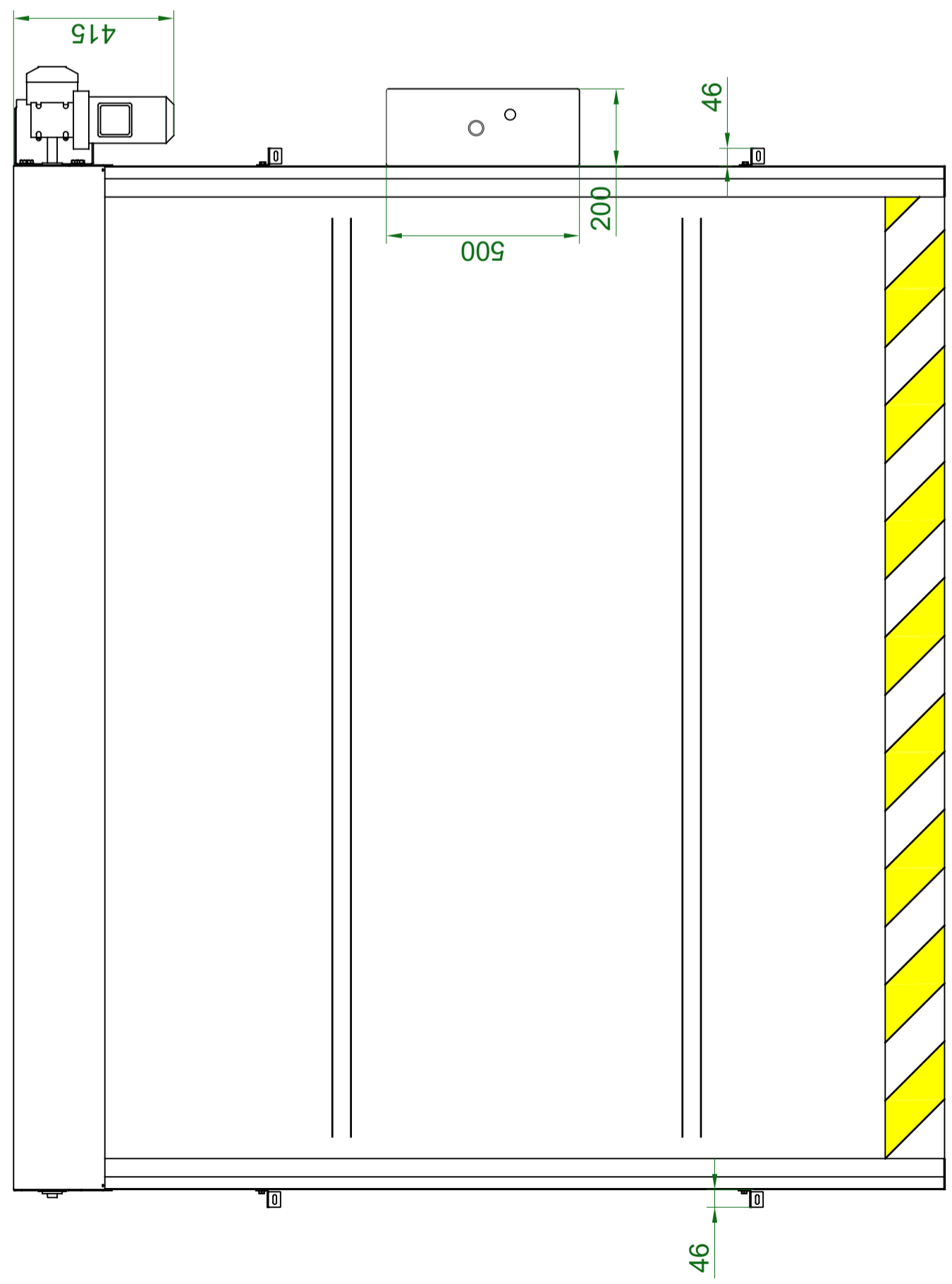


Model:	Instant Roll Basic with frontal motor	
Maximum dimensions:	3300x3500 (width x height)	
Mounting conditions:	Inside	
Motor:	Porbi	
Electrical supply	230/400V three phase	
Electrical box	RSPV	
Manual operation by crank		
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	ofitecnica	14/01/2016
Familia:	Rápidas	14/01/2016
Título:	Instant Roll Basic	
Material:	Código:	
	Conjunto al que pertenece: xxxxxx	
	Hoja 1 de 3	



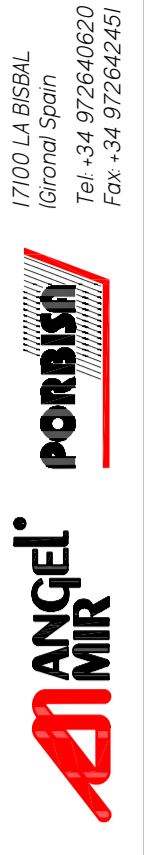


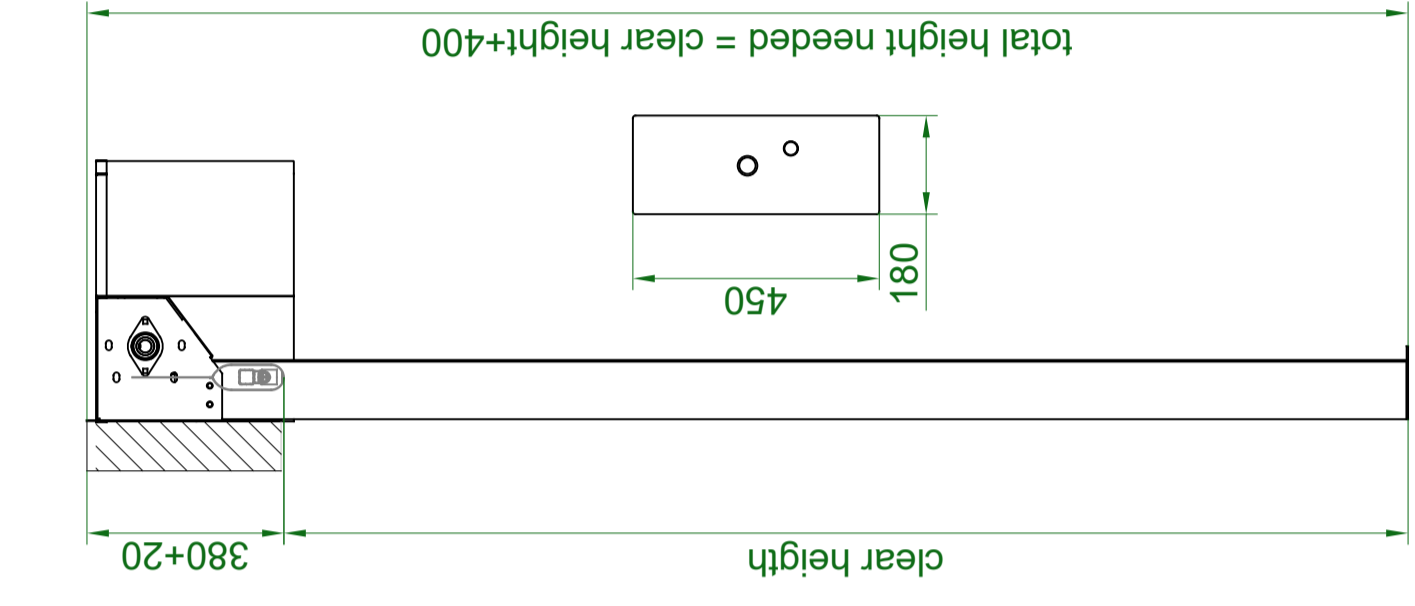
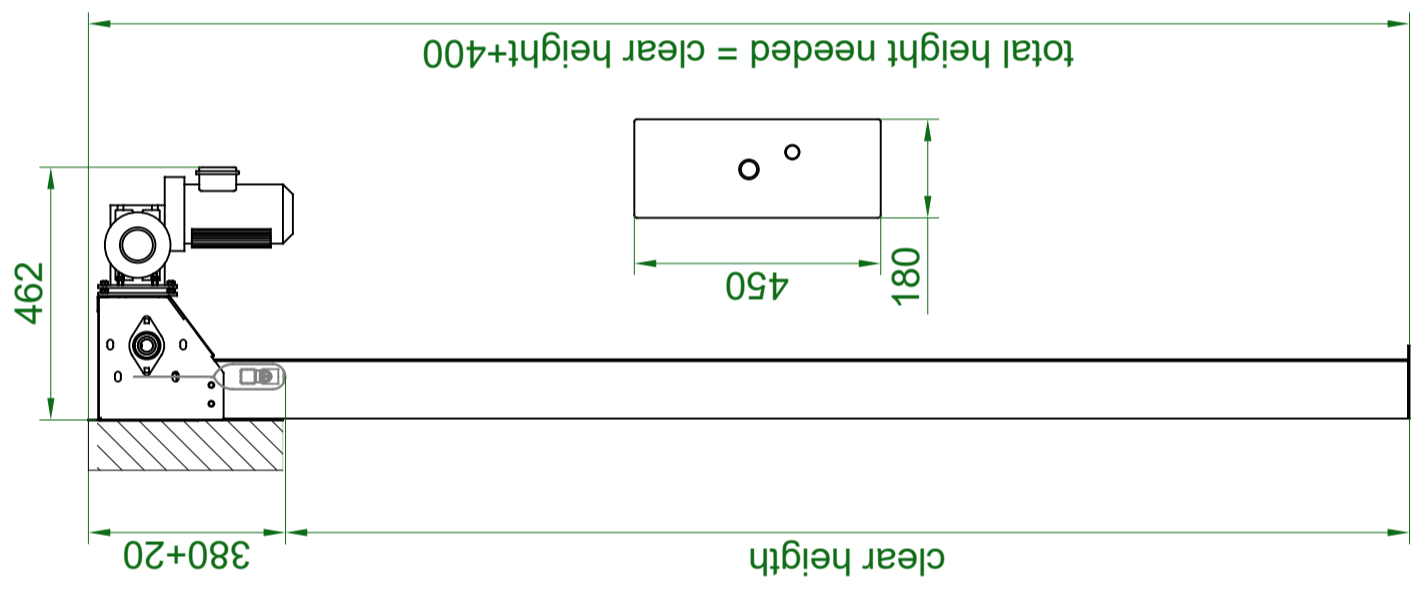
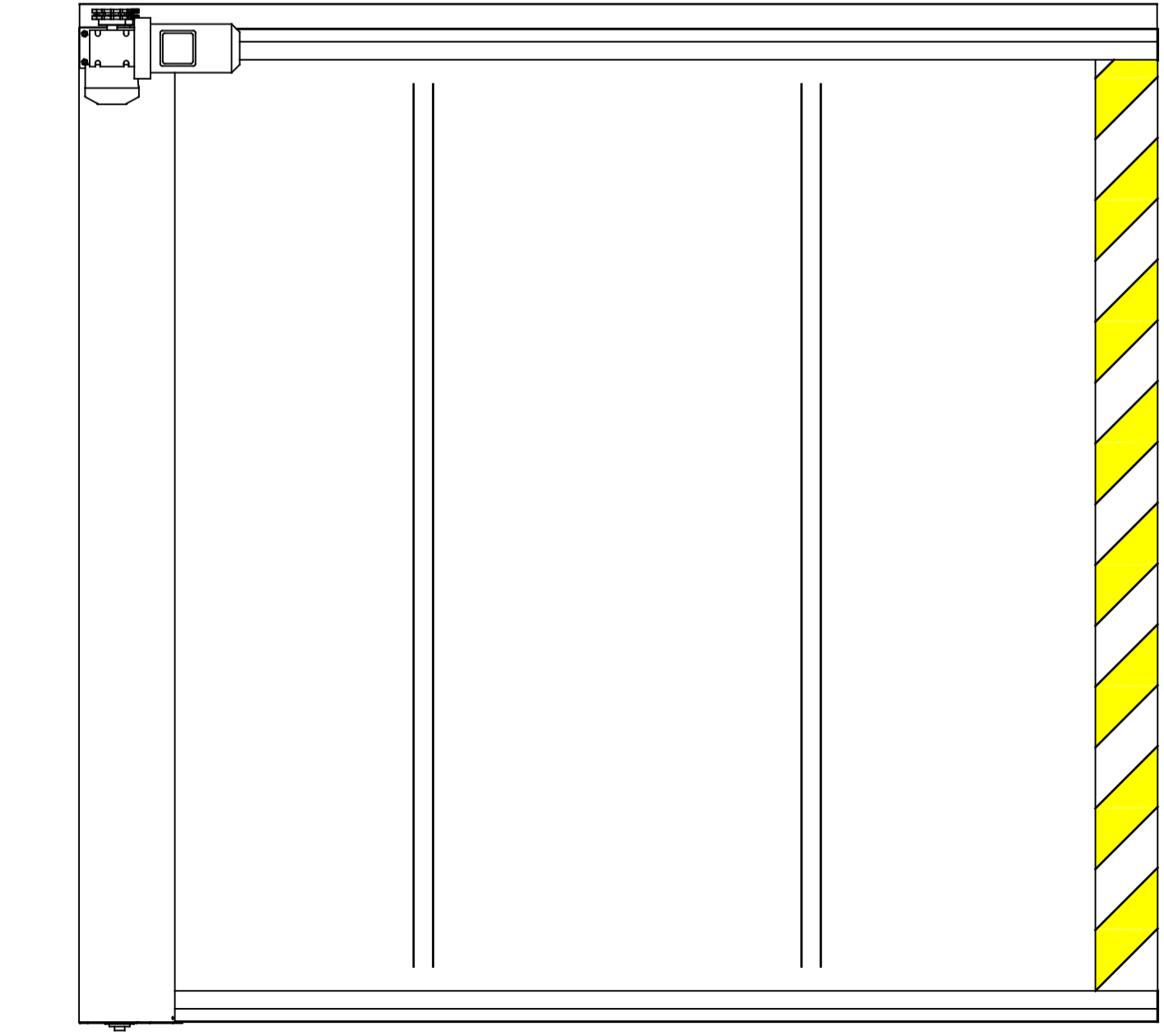
With motor cover
(optional order)



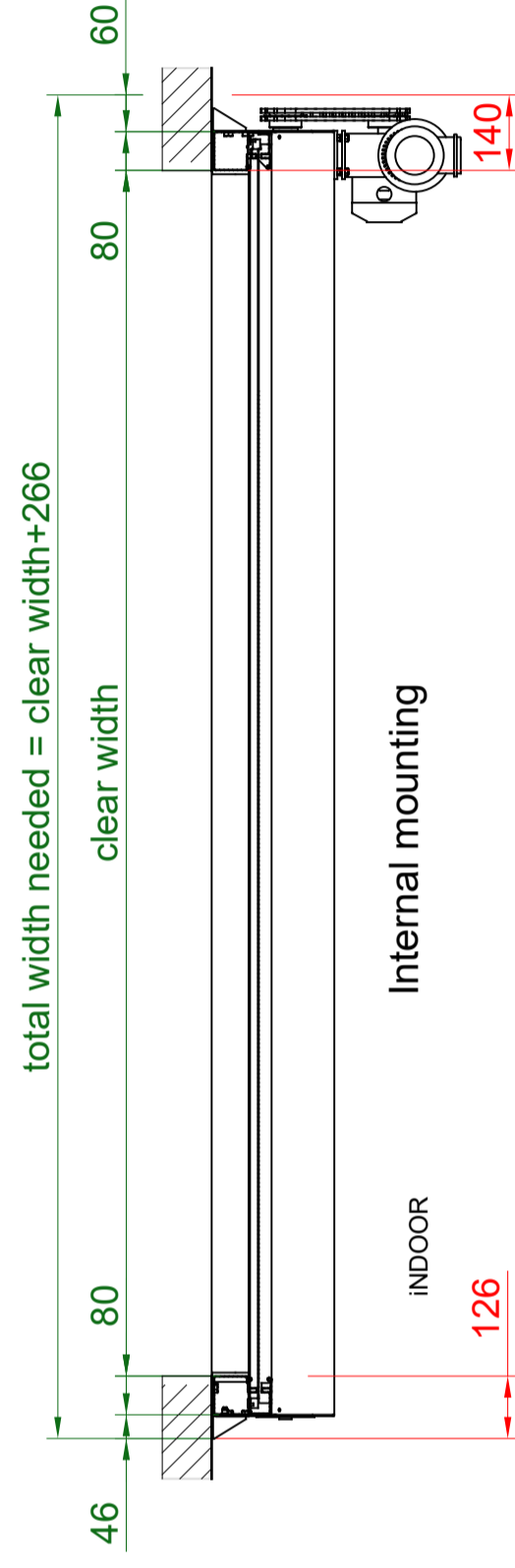
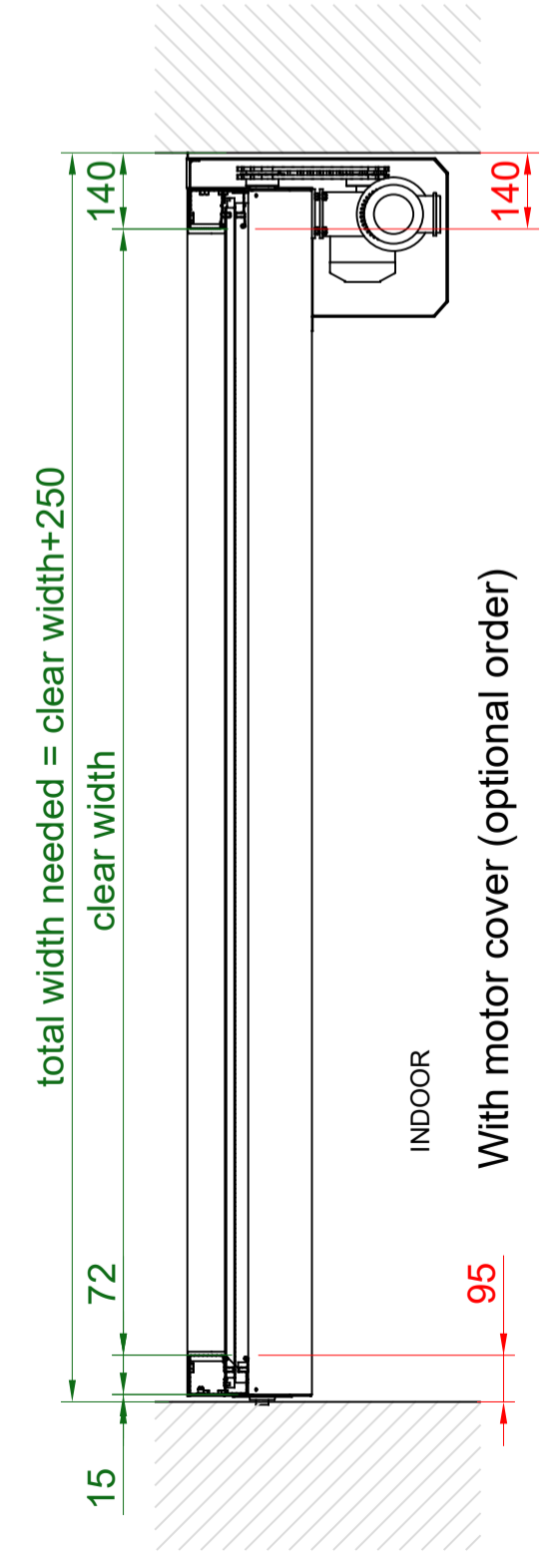
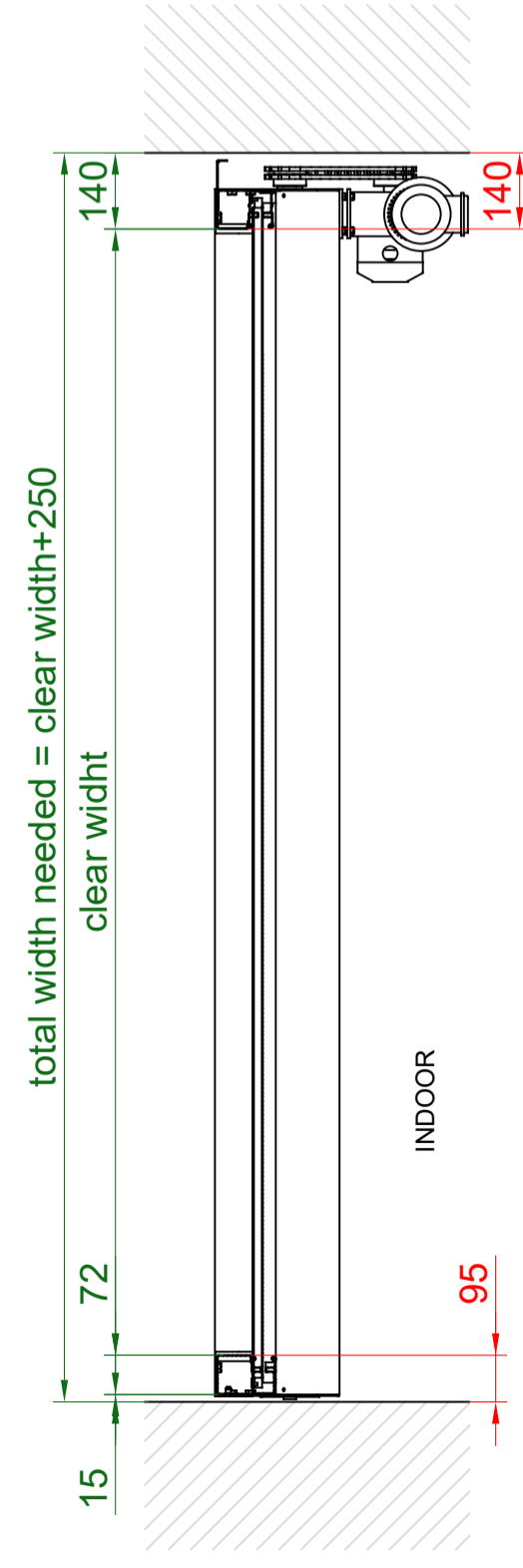
With motor cover (optional order)

Model:	Instant Roll Basic with lateral motor	
Maximum dimensions:	3300x3500 (width x height)	
Mounting conditions:	Inside	
Motor:	Porbi	
Electrical supply	230V monophase	
Electrical box	RSPV	
Manual operation by crank		
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	of.technical	14/01/2016
	Esteve	14/01/2016
Familia:	Rápidas	Título: Instant Roll Basic
Tipo: Instant Roll Basic		Código:
Material:		Conjunto al que pertenece: xxxxxx
		Hoja 1 de 3





With motor cover (optional required)



Model:	Instant Roll Basic with frontal motor	
Maximum dimensions:	3300x3500 (width x height)	
Mounting conditions:	Inside	
Motor:	Porbi	
Electrical supply	230V monophase	
Electrical box	RSPV	
Manual operation by crank		
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	of/technical	14/01/2016
Familia:	Rápidas	14/01/2016
Título:	Instant Roll Basic	
Tip: Instant Roll Basic	Código:	
Material:	Conjunto al que pertenece: xxxxxx	
		Hoja 1 de 3



17100 LA BISBAL
Girona Spain
Tel. +34 972640620
Fax. +34 972642451

INSTANT ROLL ECO

ROLLING WINDBREAK SPEED DOOR

The model INSTANT ROLL ECO from Angel Mir is a rolling speed door suitable for gaps of medium / large size for indoors use. It is perfect to divide environments and passages between industrial units, warehouses, garages, etc.

It has a mechanism with frequency inverter regulating the opening and closing speeds and has acceleration and the deceleration ramps when opening and closing.

It is an intensive use door.

Maximum sizes: 4500 x 4500.

Wind resistance on standard configuration: Class 0.

CHASSIS

× General:

- Standard: Pre-lacquered galvanized steel in White Pirineo.
- Not self-supporting, it needs to be fastened to a structure or wall.

Element	Material	Details
Guide	Pre-lacquered galvanized sheet	It is folded in U-shape, and has a reinforcement in omega-shape attached to the inner side of the U to ensure greater stiffness and strength to the whole set.
Exterior edge	Protected with aluminium rounded angle units	It eliminates friction and wear on the canvas.
Interior edge	Angle unit with nylon industrial brush	It increases the air sealing and eliminates friction and wear to the canvas.
Base	Galvanized steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.

Finishing

- ✓ Pre-lacquered White Pirineo

× Head:

Element	Material	Details
Back lid of the shaft	Pre-lacquered steel sheet	
Side supports	Painted galvanized steel sheet	They have holes for the ball bearings. Welded to the crosspiece.
Shaft	Extruded aluminium drum	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the rotation of the shaft.

Structure options

- ✓ Stainless steel AISI 304
- ✓ Front cover of steel sheet, in case of no lintel.
- ✓ RAL colour, to be chosen among a wide range.
- ✓ Joints improving the sealing in the guides. PVC coated foam.

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of technical fabric of high resistance polyester, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Concave-convex tubular profile made of fiberglass and polyester composite. Depending on the setting, they are inserted with solid composite.		Manufactured by pultrusion.
Skirting board	Galvanized steel tube		.
Fitting to the ground	Bottom bag of PVC coated polyester		Yellow bag with black diagonal strips.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquered on both sides; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Components	Composition
Resistant characteristics	Wind resistance	Standard: Doors >4000 x 4000: Class 0 (without wind forecast). Standard: Doors >4000 x 4000: Class 1 (80 km/h).

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures

MOTORIZATION

Operator	
Operator	EKM compact gear motor for intensive use, including integrated position switches.
Situation	On one side of the head.
Position switches	Mechanical.
Safety brake	Internal.
Shaft	Void with measured keyway to receive the shaft of the door.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank for doors up to 3000 mm and with chain for higher doors.
Voltage in volts	230 V three-phase.
Frequency in Hz	50 Hz
Power	0,37...0,55 kW, depending on door seizes.
Protection IP	IP 54

Motor options	
✓	Front motor with chain drive.
✓	Protection lid for the motor in galvanized steel, pre-lacquered in White Pirineo.
✓	Special voltages and frequencies.
✓	Operator with anti-humidity protection IP 65K. This motor has no unlocking system.

Control panel	
Model	RSPV ECO
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Logic controller	Thermal relay.
Power	Frequency inverter.
Frequency inverter	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller. Switches for opening and closing through maintained contact and basic programming.
Control box IP	PVC, with input / output cable glands.
Protection	IP 65.
Voltages	Power supply: 230 V single-phase. Manoeuvre: 24V DC.
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected with PVC standard conduit.

Control panel options	
✓	Special voltages and frequencies.
✓	Fiberglass control box with IP increased or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× **Door electrical data**

The voltage wiring up to the panel unit must be completed by a licensed electrician and must be protected according to the existing rules or standards.

The use of 300 mA superinmunized differentials is recommended.

STANDARD electrical characteristics	
Voltage V	230 V single-phase.
Frequency Hz	50 Hz
Power kW	0.47...0.65 kW, according to door sizes.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	Standard: +5...+50°C. It cannot be used in cold stores with negative temperature.

Safety	Used procedure
Anti-crushing	Photocells curtain protecting the entire width of the door and up to 2500 mm. height assembled inside the guides.
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior (UNE-EN 12453: 2000, 5.1.3 c).
Irreversible motor	It must be driven by crank or chain.
Motor with spring safety system	In case of breakage or internal wear.

× **Door speeds**

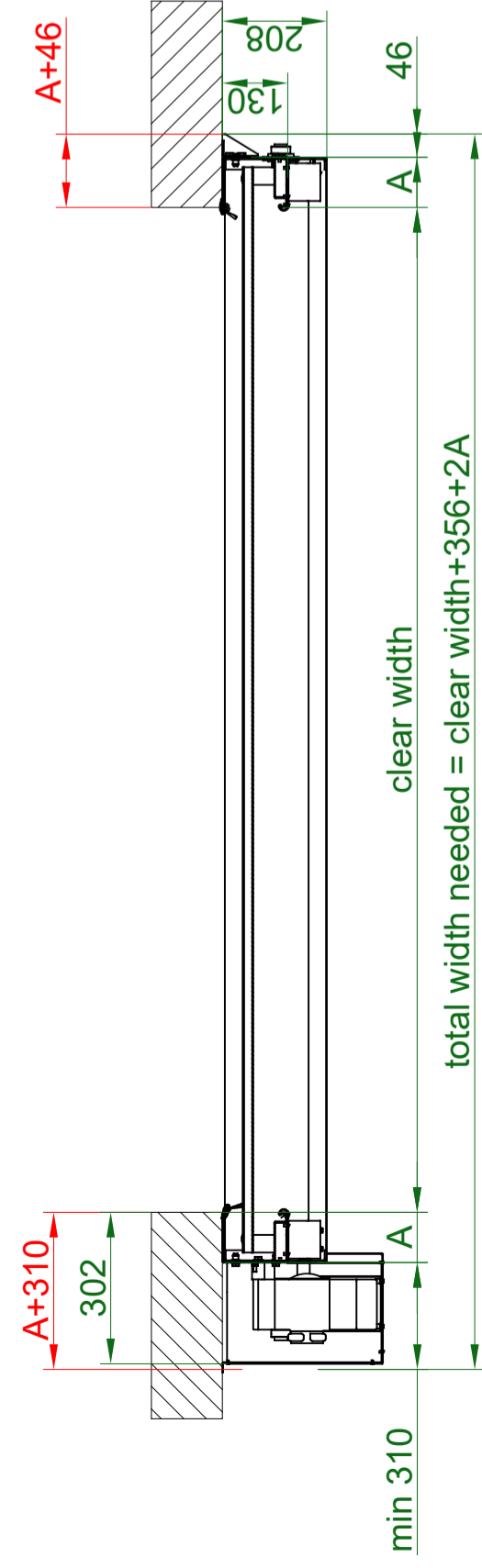
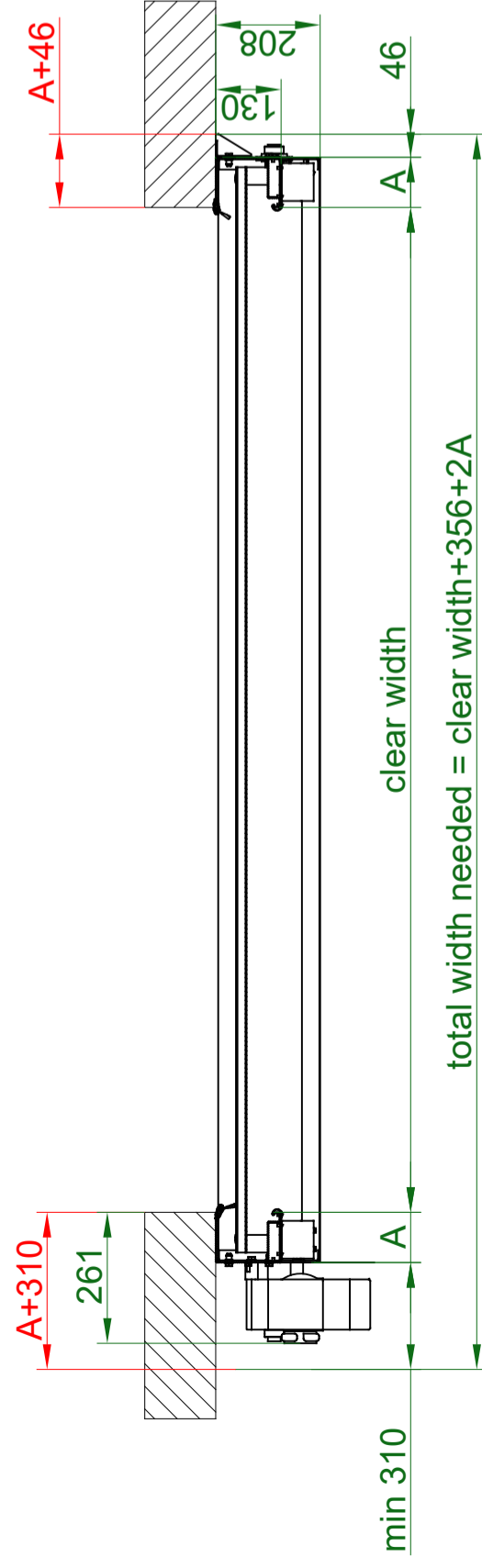
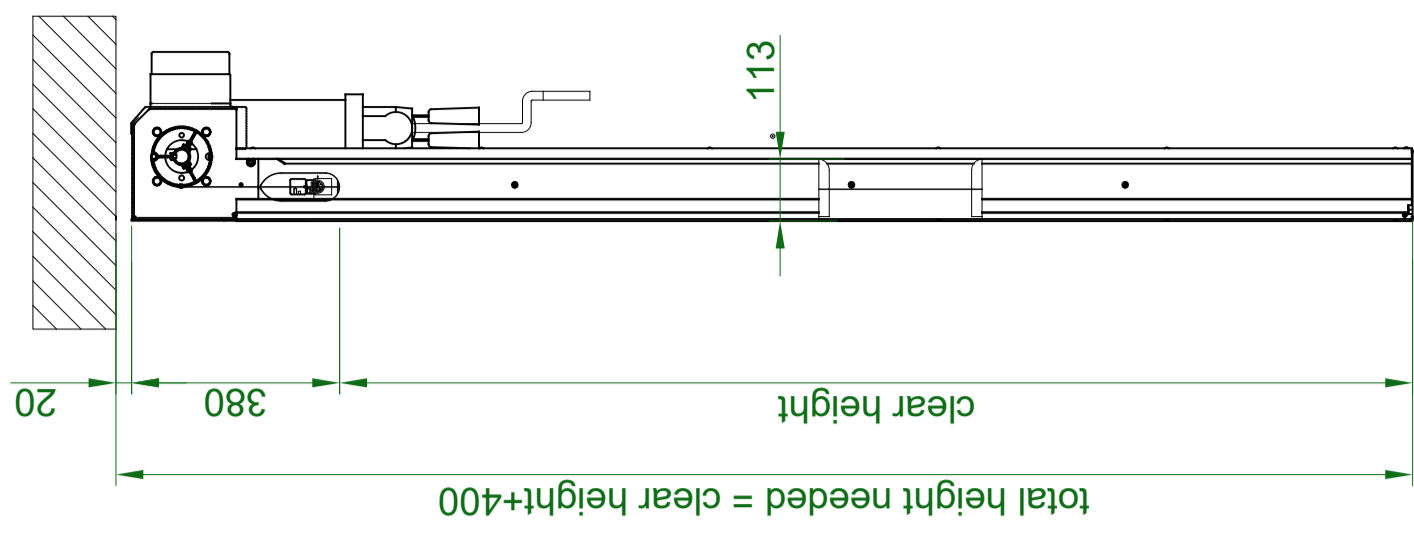
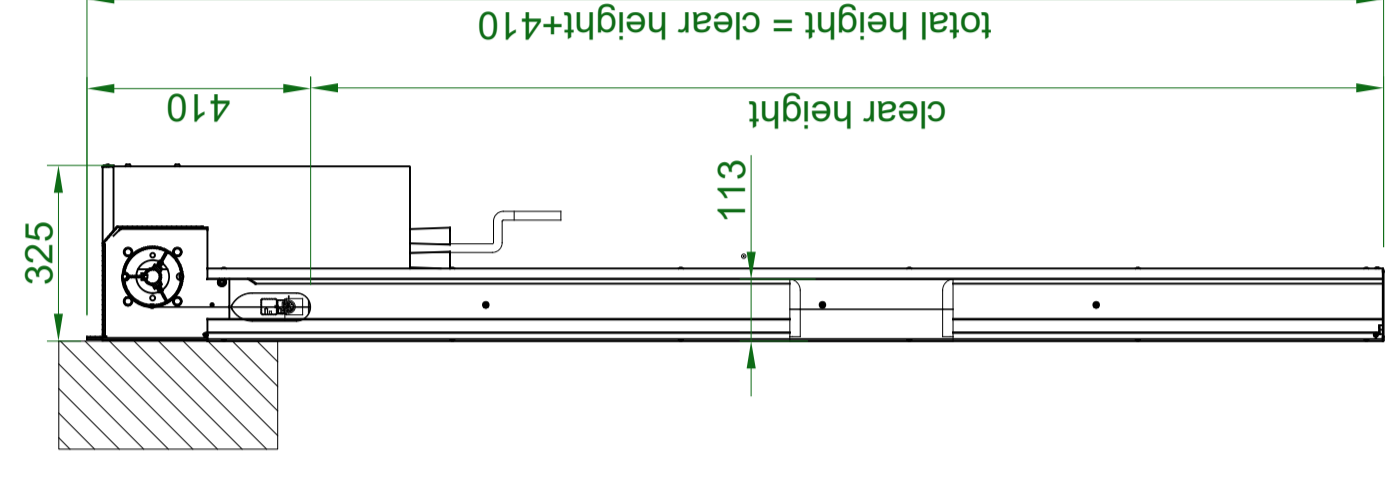
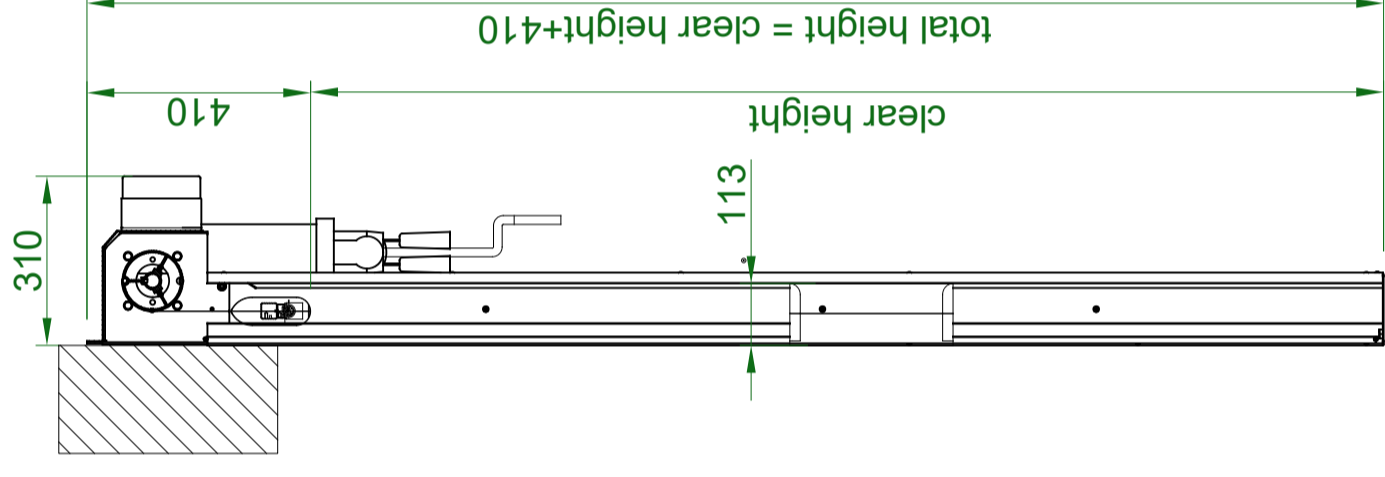
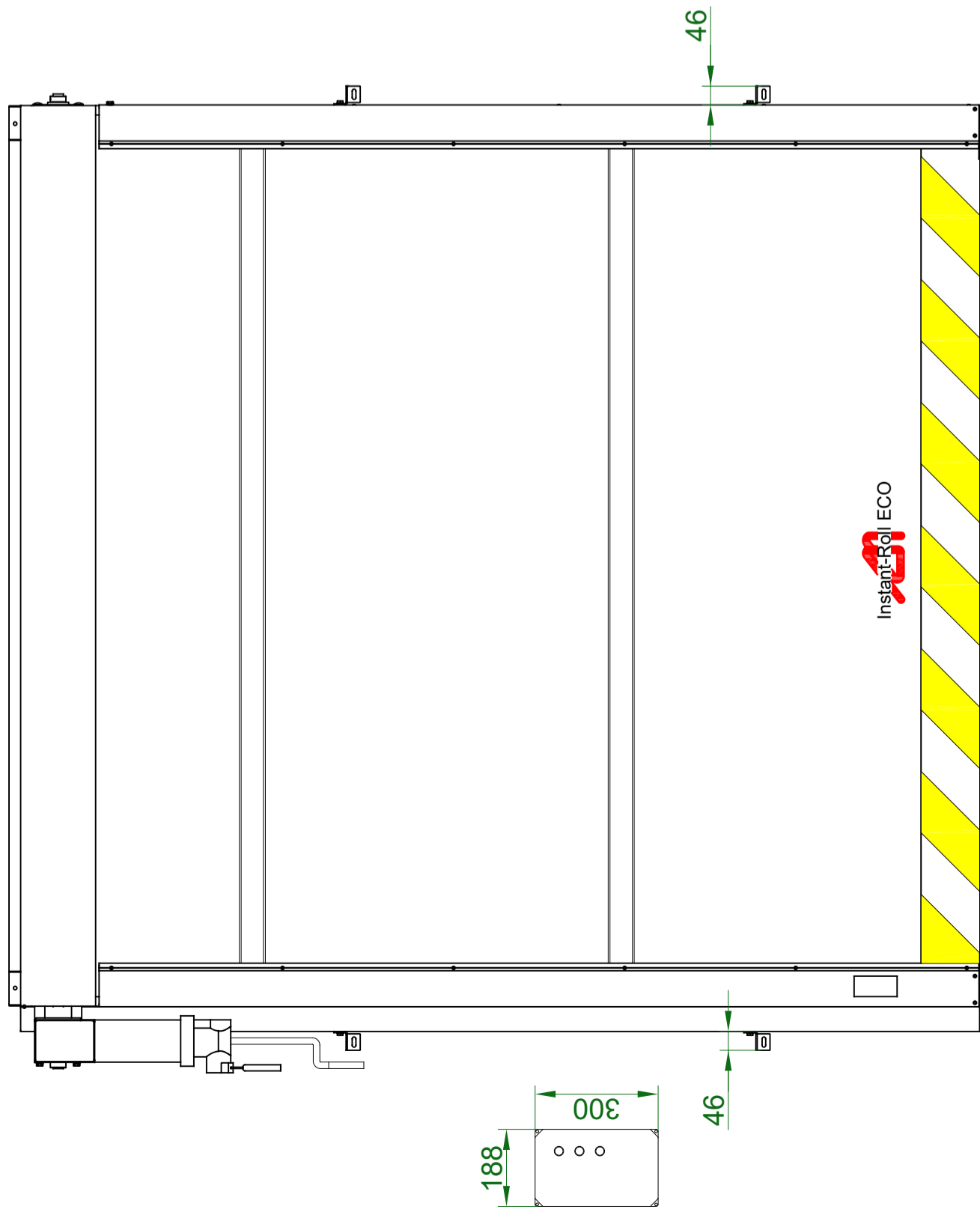
Speeds (m/s) *	Opening	Opening deceleration until	Closing
		1 m/s	0.6 m/s

*For other speeds, please ENQUIRE

CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

-For clear width up to 3000 A=100
 A -For clear width over 3000 A=150



Model:	Instant Roll Eco with lateral motor	
Maximum dimensions:	4500x4500 (width x height)	
Mounting conditions:	Inside	
Motor:	ELK	
Electrical supply:	230V Monophase	
Electrical box:	RSPV ECO	
Manual operation:	For total height up to 3000 by crank	
	For total height over 3000 by chain	
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	of.technical	13/01/2016
	Esteve	13/01/2016
Familia:	Rápidas	
Tipo:	Instant Roll Eco	
l/l	Material:	Código:
	xxxxxx	xxxxxx
		Hoja 1 de 3



Título: Instant Roll Eco

MIRFLEX Auto-tracking

ROLLING WINDBREAK SPEED DOOR

The model MIRFLEX from Angel Mir is an auto-tracking rolling speed door to close medium-sized interior voids. It is perfect to divide different environments and passages between industrial units, warehouses or shops. As it is designed with small profiles, it takes up very little space of the light void and also requires little space on the side doorjambes and on the lintel. The upper platform and the steel profiles of the feet give it a great mechanical resistance.

It withstands light or moderate air currents and the canvas relies on a system of flexible reinforcements coming out of the guides when they receive a strong impact and return afterwards on the rails when the door lifts.

It has a mechanism with frequency inverter regulating the opening and closing speeds and the acceleration and the deceleration ramps when opening and closing.

It is an intensive use door.

Maximum sizes: 3300 x 3500

Wind resistance on standard configuration: Class 0.

CHASSIS

× General:

- Not self-supporting. It must be fastened to a resistant structure. Guides of anodized aluminium, Aluminio Plata Mate (Mat Silver Aluminium) on support profile and prelacquered galvanized steel reinforcement. Upper platform of galvanized steel.

Element	Material	Details
Guides	Extruded aluminium profile	It has internal reinforcements.
Back profile	Profile of white prelacquered galvanized steel	Double rectangular shape profile with central channel for guide profile.
Tracking	Polyurethane	Black.
Base	Stainless steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.

× Head:

Element	Material	Details
Shaft lid	Prelacquered steel sheet	White Pirineo.
Platform	Prelacquered steel sheet	White Pirineo.
Shaft	Aluminium drum	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
Supports	Profiles of painted galvanized steel sheet	It has housings for the self-adjusting ball bearings supporting the shaft
* The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear-motor, shaft, etc.).		
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.).	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid bulging or movements due to the rotation of the shaft.

Structure options

- ✓ Painted in RAL colour, to be chosen by customer among a wide range

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Base of high strength polyester technical fabric, coated with dyed PVC.
Material		Characteristics	
Side reinforcements	Concave-convex tubular profile made of fiberglass and polyester composite. Depending on the insert setting, with solid composite profile		Manufactured by pultrusion.
Skirting board	Galvanized steel tube		It includes flexible elements at the ends.
Fitting to the ground	Polyester bottom bag coated with PVC		Yellow bag with black diagonal strips.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquered on both sides; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Components	Composition
Resistant characteristics	Wind resistance	Standard: Class 0 (without wind pressure).
Other wind resistances	To enquire.	

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures.

MOTORIZATION

Element	Characteristics
Operator	Angel Mir Irreversible gear motor for intensive use, including integrated position switches driven by the output shaft of the gear motor.
Location	On one side of the head.
Position switches	Mechanical.
Shaft	Void with measured keyway to receive the shaft of the door.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank.
Voltage in volts	230/400 V three-phase
Frequency in Hz	50 Hz
Power	0.6...1.87 CV / 0.45...1.38 kW, depending on door sizes.
Protection IP	IP 54

Motor options	
✓	Front motor with chain drive.
✓	Protection lid for the motor in galvanized steel.
✓	Special voltages and frequencies.

Control panel	
Model	RSPV ECO
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Logic controller	Programmable relay.
Frequency inverter	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller. Switches for opening and closing through maintained contact and basic programming.
Control box IP	Painted steel, with input / output cable glands.
Protection	IP 65 offset with cable glands. IP 55 when assembling at the door foot.
Voltages	Power supply: 230 V single-phase. Manoeuvre: 24V DC.
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected through aluminium accessible channel, fixed to the door foot on plastic supports.

Control panel options	
✓	Special voltages and frequencies.
✓	Fiberglass control box with IP increased or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules or standards.

The use of 300 mA superimmunized differentials is recommended.

STANDARD electrical characteristics	
Voltage V	230 V single-phase
Frequency Hz	50 Hz
Power kW	0.47...0.65 kW, depending on door size.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE.

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in cold stores with negative temperature.

Safety	Used procedure
Anti-crushing	Photocells curtain protecting the entire width of the door and up to 2500 mm. height assembled inside the guides.
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)

× **Door speeds**

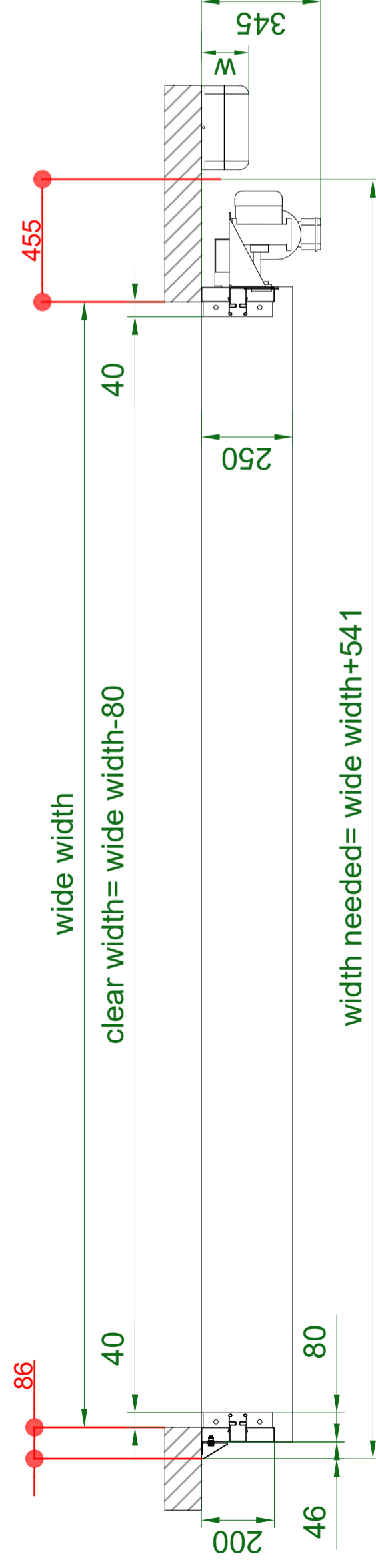
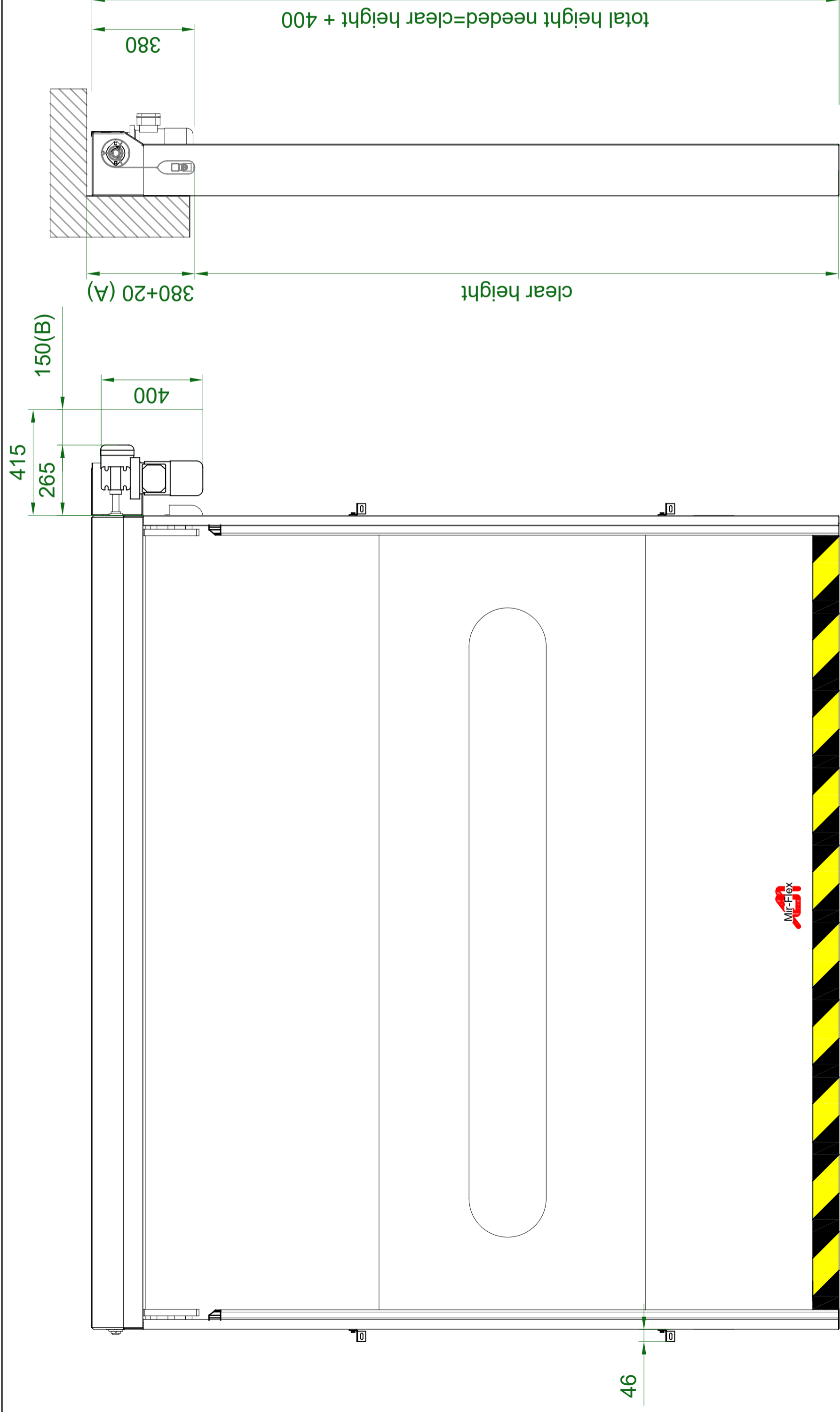
Speeds (m/s) *	Opening	Opening deceleration until	Closing
	0.82 m/s	0.60 m/s	0.60 m/s

*For other speeds, please ENQUIRE

CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

The information contained in this descriptive text is general for the referenced product. In no case is it binding or contractual. Portes Bisbal S.L. reserves the right to modify the features herein.



ELECTRICAL BOX	DIM. U x V x W
RSP	200 x 500 x 160
RSP INOX	300 x 400 x 150
RSP PLM	330 x 430 x 200

Model:	Mir Flex with lateral motor	
Maximum dimensions:	3300x3500 (width x height)	
mounting conditions:	door mounted inside	
Motor:	Pact	
Electrical supply:	Three phase 230/400 III	
For special dimensions consult our technical office		

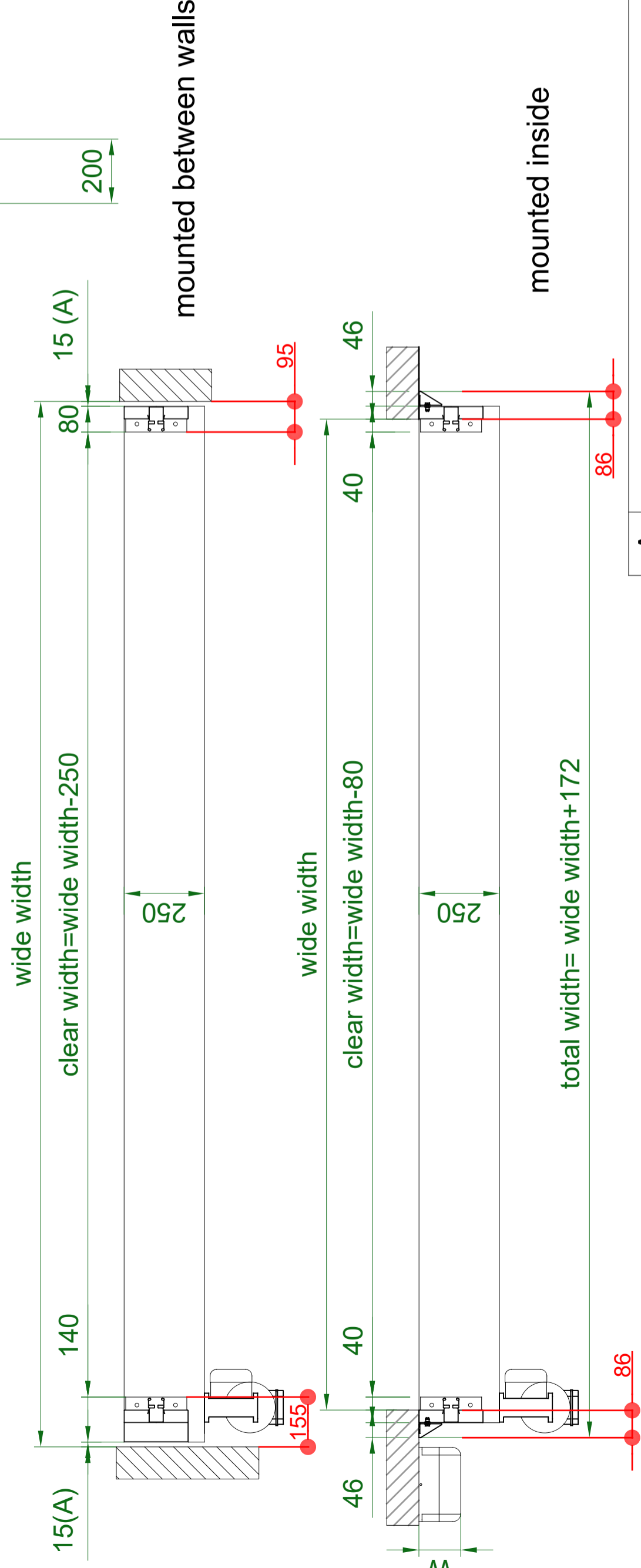
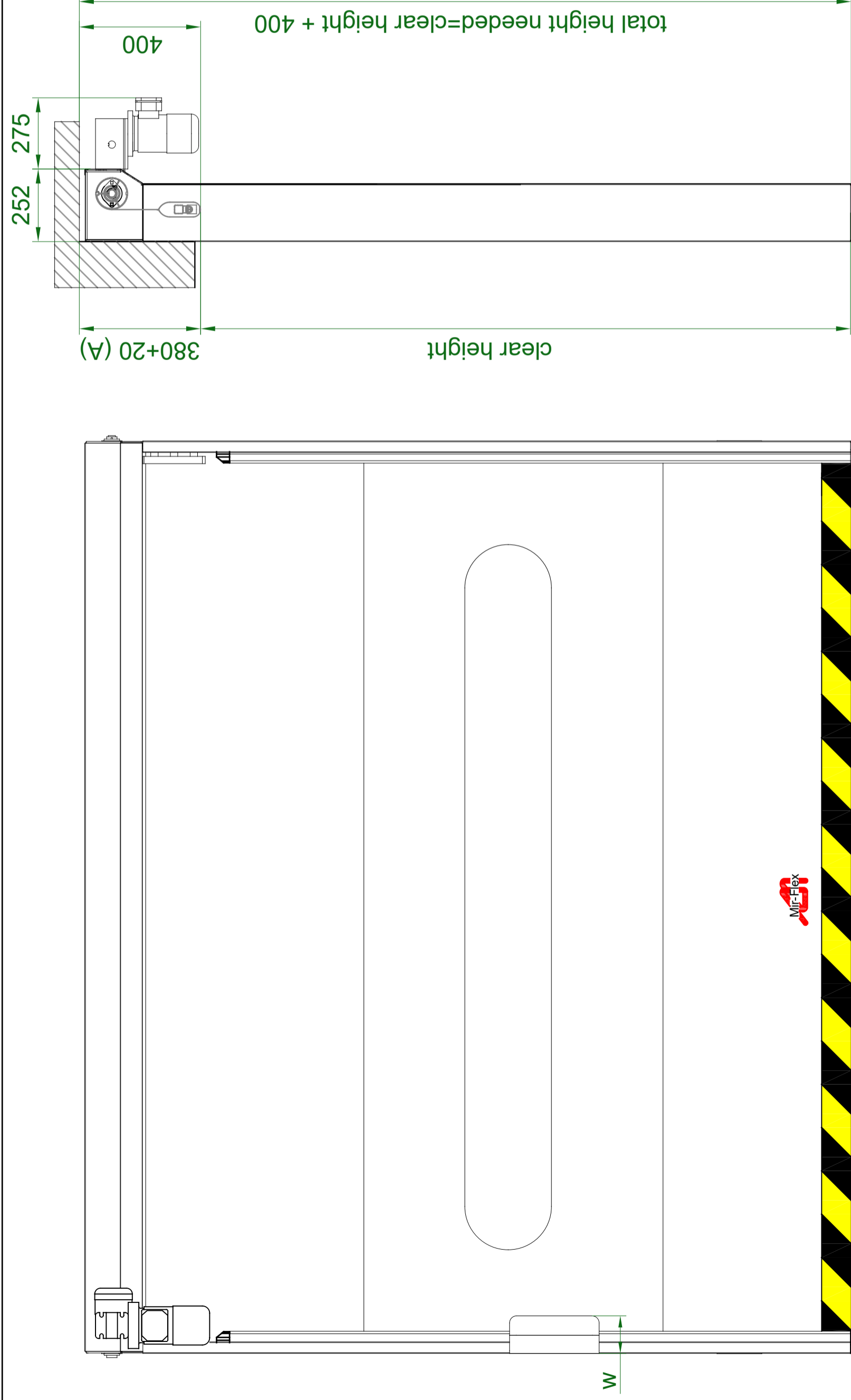
Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	18/04/12
Familia:	Rápidas	
Título:	Mir Flex	
Tipo:	Mir Flex	
Material:	xxxxxx	
Conjunto al que pertenece: xxxxxx		
Hoja 1 de 3		



17100 LA BISBAL
Girona Spain
Tel: +34 972640620
Fax: +34 972642451

A	Installation allowance	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE
B	For stroke limit switch setting	3x230/400-50	3x1,5+earth/10A
MOTOR	CURRENT (A) 230/415 V	1,7/1,0	
0,5 CV	POWER	0,37 KW	

width needed= wide width+541

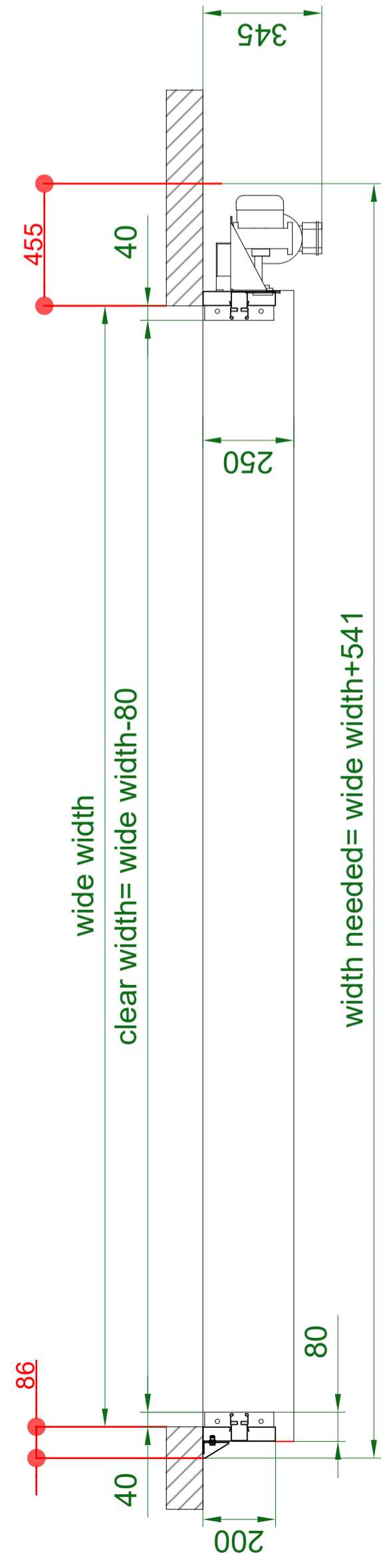
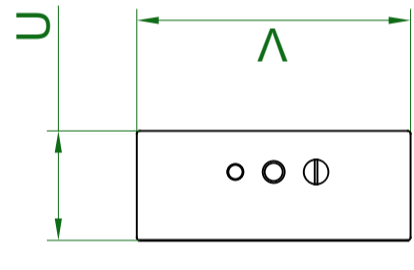
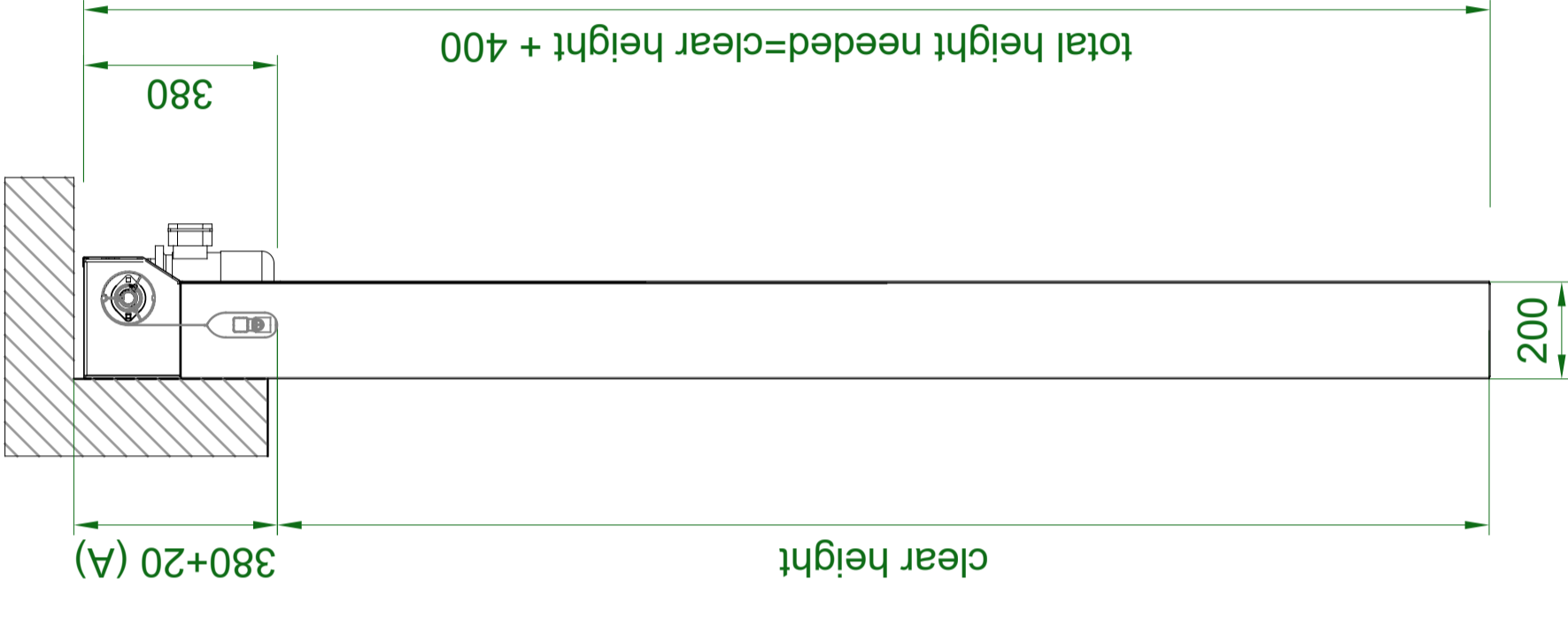
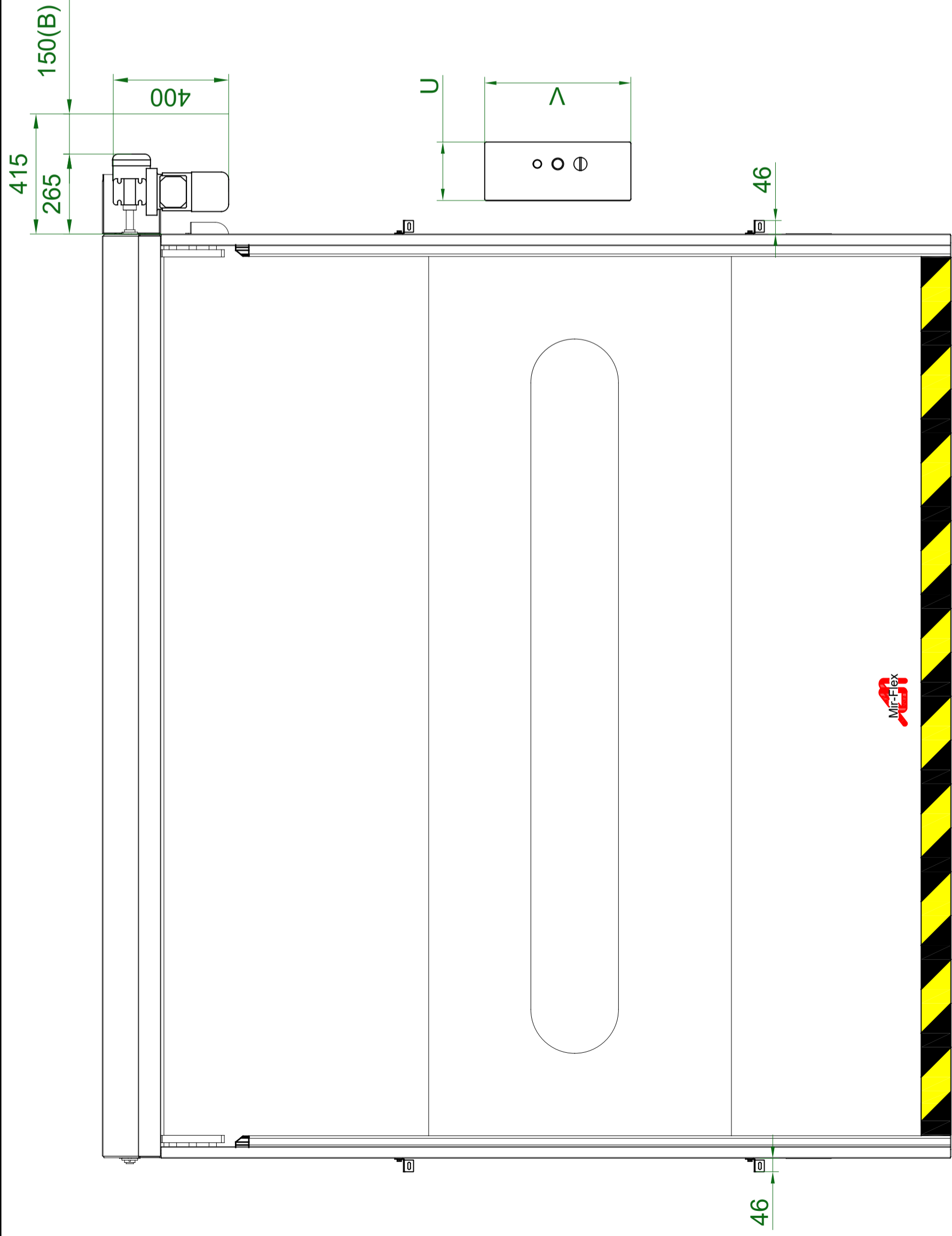


ELECTRICAL BOX	DIM. U x V x W
RSP	200 x 500 x 160
RSP INOX	300 x 400 x 150
RSP PLM	330 x 430 x 200

Model:	Mir Flex with frontal motor	
Maximum dimensions:	3300x3500 (width x height)	
mounting conditions:	door mounted inside / between walls	
Motor:	Pact	
Electrical supply:	Three phase 230/400 III	
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	18/04/12
Familia:	Rápidas	Título: Mir Flex

			
<small>17100 LA BISBAL Girona Spain Tel. +34 972640620 Fax. +34 972642451</small>			
Tipo: Mir Flex		Código: xxxxxx	
II		Material:	
Conjunto al que pertenece:		Hoja 1 de 3	

MOTOR	POWER	CURRENT (A)230/415 V	VOLTAGE (V) -FREQUENCY (Hz)	POWER SUPPLY CABLE
0,5 CV	0,37 KW	1,7/1,0	2x230/400-50	3x1,5+earth/10A



ELECTRICAL BOX	DIM. U x V x W
*RSPV (standard)	200 x 500 x 125
RSPV PLM POLIESTER	330 x 430 x 200
RSPV INOX	300 x 400 x 150
RSPV ECO	230 x 310 x 130

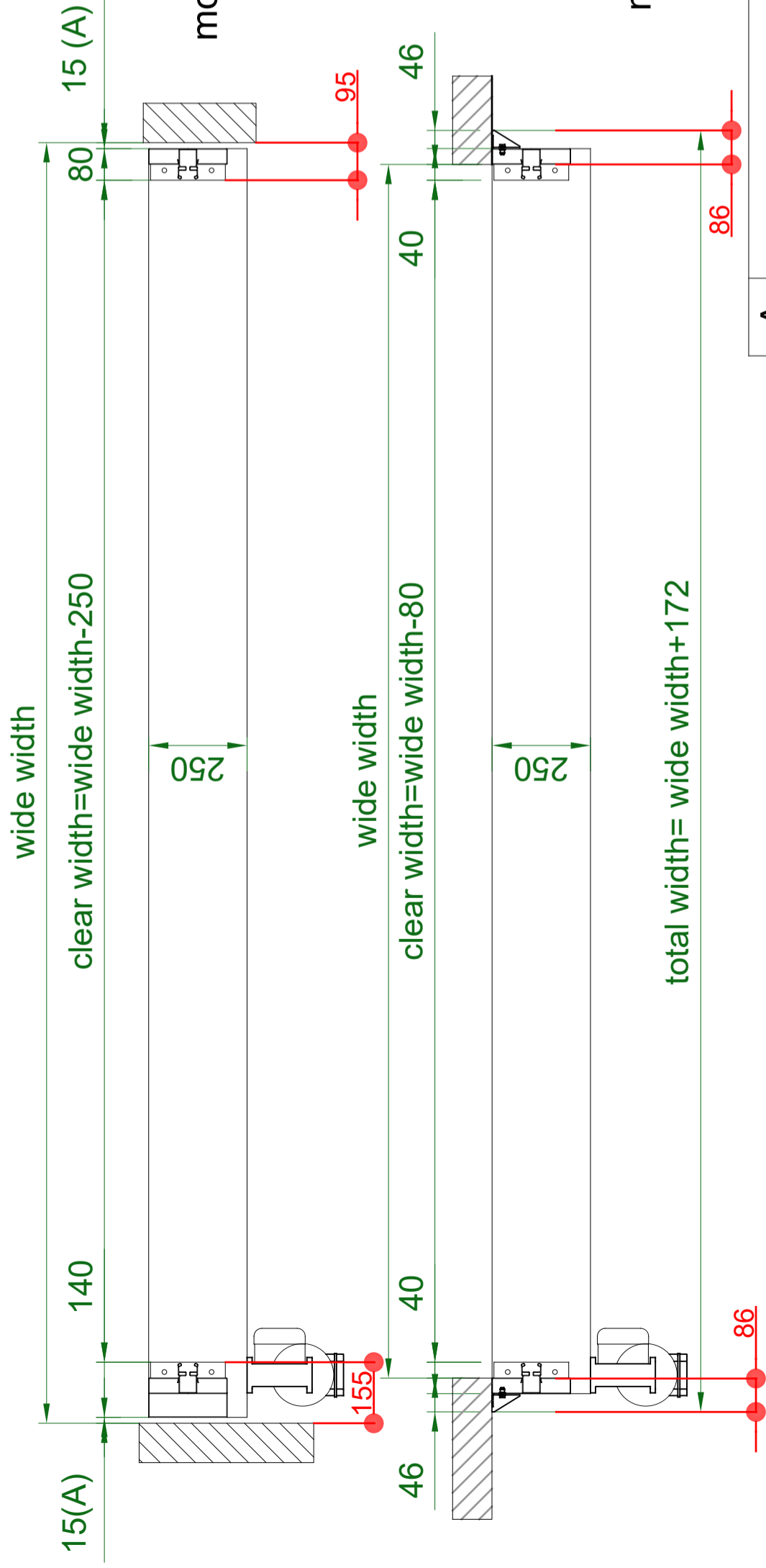
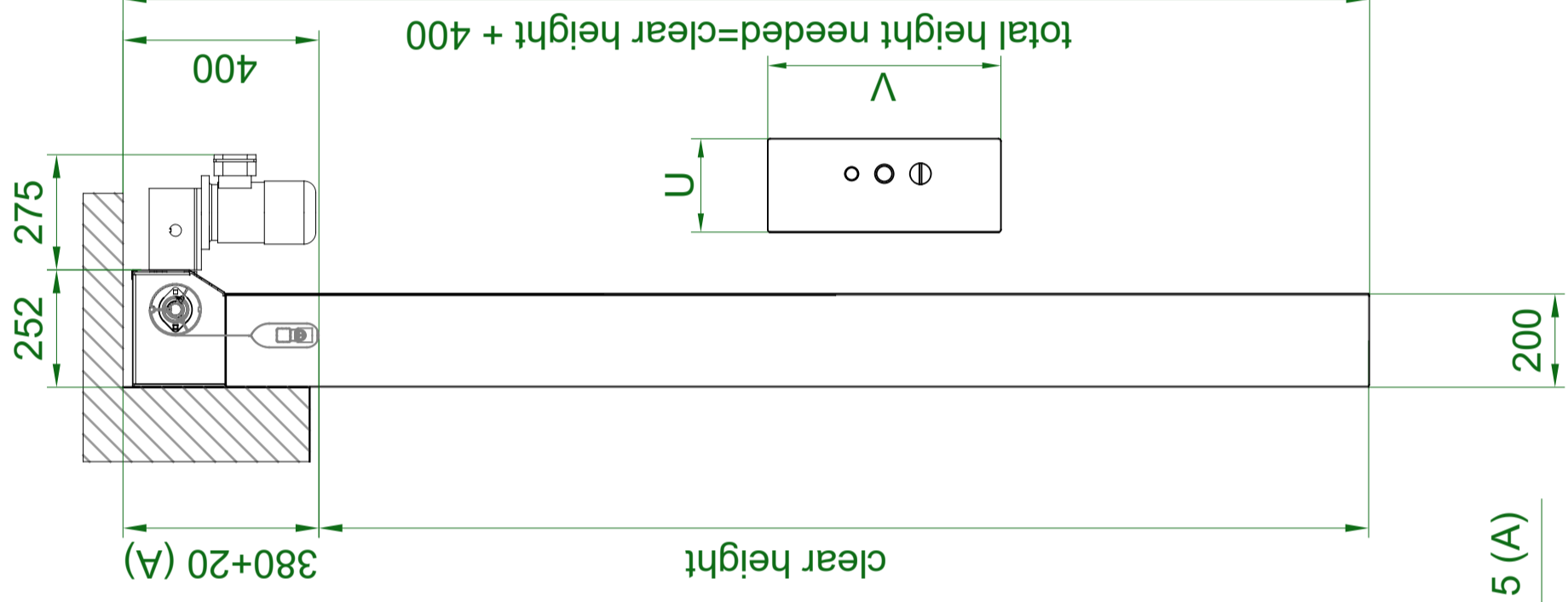
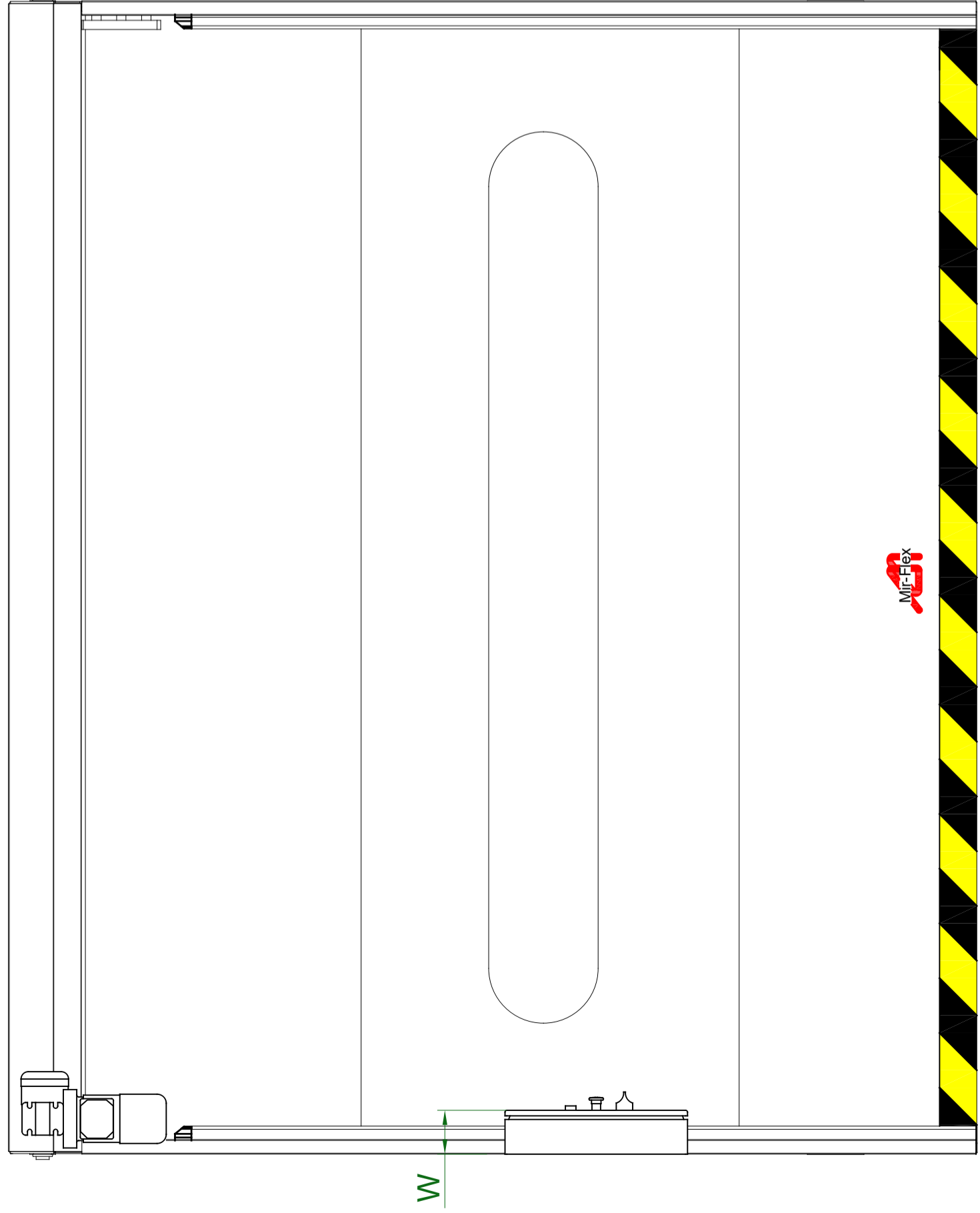
Model:	Mir Flex with lateral motor	
Maximum dimensions:	3300x3500 (width x height)	
mounting conditions:	door mounted inside	
Motor:	Pact	
Electrical supply:	monophase 230 II	
For special dimensions consult our technical office		

Dibujado	Nombre	Fecha
Comprobado	ofi. tecnica	18/04/12
Familia:	Rápidas	
Título:	Mir Flex	
Tipo:	Mir Flex	
Material:	xxxxxx	
Conjunto al que pertenece: xxxxxx		
Hoja 1 de 3		



17100 LA BISBAL
Girona Spain
Tel: +34 972640620
Fax: +34 972642451

A	Installation allowance	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE
B	For stroke limit switch setting	2x230-50	2x1,5+earth/10A
MOTOR	CURRENT (A)230 V	1,7	0,37 KW
0,5 CV			



ELECTRICAL BOX	DIM. U x V x W
*RSPV (standard)	200 x 500 x 125
RSPV PLM POLIESTER	330 x 430 x 200
RSPV INOX	300 x 400 x 150
RSPV ECO	230 x 310 x 130

Model:	Mir Flex with frontal motor	
Maximum dimensions:	3300x3500 (width x height)	
mounting conditions:	door mounted inside/ between walls	
Motor:	Pact	
Electrical supply:	monophase 230 II	
For special dimensions consult our technical office		
Dibujado	Nombre	Fecha
Comprobado	ofi.technical	18/04/12
Familia:	Rápidas	Título: Mir Flex

		17100 LA BISBAL (Granollers, Spain) Tel. +34 972640620 Fax. +34 972642451	
		Código: xxxxxx Conjunto al que pertenece: xxxxxx	
Tipo: Mir Flex Material:		Hoja 1 de 3	

MOTOR	POWER	CURRENT (A)230 V	VOLTAGE (V) -FREQUENCY (Hz)	POWER SUPPLY CABLE
0,5 CV	0,37 KW	1,7	2x230-50	2x1,5+earth/10A

MIRFLEX ECO Auto-tracking

ROLLING WINDBREAK SPEED DOOR

The model MIRFLEX ECO from Angel Mir is a rolling speed door suitable to close internal gaps of medium size. It is perfect to divide different environments and passages between industrial units, warehouses or shops. As it is designed with small profiles, it takes up very little space of the light void and requires also little space on the side doorjambes and on the lintel. It is an intensive use door.

It withstands light or moderate air currents and the canvas count on a system of flexible reinforcements coming out of the guides when they receive a strong impact and return afterwards on the rails when the door lifts.

It has a mechanism with frequency inverter regulating the opening and closing speeds and the acceleration and the deceleration ramps when opening and closing.

Maximum sizes 3300 x 3500

Wind resistance on standard configuration: Class 0.

CHASSIS

- Not self-supporting. It must be fastened to a resistant structure. Aluminium rails on support profile and aluminium reinforcement. No upper platform.

Element	Material	Details
Guides	Extruded aluminium profile	It has internal reinforcements.
Guide support profile	Extruded aluminium profile	Double rectangular profile with central channel for guide profile.
Tracking	Polyurethane	Black.
Base	Stainless steel sheet	It has holes for fastening to the ground.
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure.
Finishing	White lacquered Pirineo	

× Head:

Element	Material	Details
Shaft	Aluminium drum	Of Ø110mm with reinforcement radius and hollow central knot with keyway.
	Solid profile of galvanized steel	Of Ø25.4mm with keyway along its entire length.
Supports	Profiles of painted galvanized steel sheet	It has housings for the self-adjusting ball bearings supporting the shaft
Back lid of the shaft	Lacquered or white RAL 9006 steel sheet	
Fastening	Anchoring suitable to the kind of support (metallic, chemical dowels, etc.)	It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the rotation of the shaft.
Finishing	White lacquered Pirineo	

Structure options

✓ Painted RAL colour chosen from a wide range by the customer.
✓ Front cover of steel sheet, in case of no lintel.
✓ Anodized matt inox or lacquered grey RAL 7045

CANVAS

Element	Mass (kg/m ²)	Work temperature (°C)	Characteristics
Canvas	0.95	-20...+70	Self-extinguishing M2 or M3.
Material		Characteristics	
Side reinforcements	Concave-convex tubular profile made of fiberglass and polyester composite. Depending on the setting, they are inserted with solid composite.		Manufactured by pultrusion.
Skirting board	Galvanized steel tube		It includes flexible elements at the ends.
Fitting to the ground	Reinforced fabric of polyester coated with PVC		Yellow bag with black diagonal strips.
Welding	All welding through high frequency including windows.		
Finishing	Bright lacquered on both sides; colour to be chosen from a wide range.		

Colours	Colours similar to RAL						
Reaction to fire M2	Red 3002	Yellow 1003	Green 6026	Blue 5005	Grey 7016	Grey 7040	White 9003
Reaction to fire M3	Ivory 1014	Orange 2004	Orange 2002	Black 9005	Brown 8016	Grey 9006	

	Components	Composition
Resistant characteristics	Wind resistance	Standard: Class 0 (without wind forecast).
Other wind resistances		Please enquire

Canvas options
✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures

MOTORIZATION

Operator	
Operator	EKM compact gear motor for intensive use, including integrated position switches.
Situation	On one side of the head.
Position switches	Mechanical.
Safety brake	Internal.
Shaft	Void with measured keyway to receive the shaft of the door.
Electro brake	For precise positioning and canvas locking.
Unlocking	Through handle.
Manual drive	Through crank for doors up to 3000 mm and with chain for higher doors.
Voltage in volts	230 V three-phase
Frequency in Hz	50 Hz
Power	0.4...0.75 CV / 0.29...0.55 kW, depending on door seizes.
Protection IP	IP 54

Motor options
✓ Front motor with chain drive.
✓ Protection lid for the motor in galvanized steel, lacquered, stainless steel and polystyrene.
✓ Special voltages and frequencies.
✓ Motor with increased IP (IP65).

Control panel	
Model	RSPV ECO
Keys on exterior lid	Switches for opening and emergency stop. Voltage breaker.
Logic controller	Thermal relay.
Power	Frequency inverter.
Frequency inverter	Opening and closing adjustable speeds. Speed opening, fast. Speed closing, slow. Acceleration ramps at the beginning of the movement. Deceleration ramps at the end of the movement. Protection of the motor because overconsumption and lack of phase.
Display registering status and information	Reports: position, kind of failure and manoeuvre controller. Switches for opening and closing through maintained contact and basic programming.
Control box IP	PVC, with input/output cable glands.
Protection	IP 65.
Voltages	Power supply: 230 V single-phase. Manoeuvre: 24V DC.
Control panel electrical installation to the motor and to the fixed elements at the feet	Protected with PVC standard conduit.

Control panel options
✓ Special voltages and frequencies.
✓ Fiberglass control box with IP increased or stainless steel.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

× **Door electrical data**

The voltage wiring up to the panel unit must be completed by a licensed electrician and must be protected according to the existing rules or standards.

The use of 300 mA superimmunized differentials is recommended.

STANDARD electrical characteristics	
Voltage V	230 V single-phase
Frequency Hz	50 Hz
Power kW	0.39...0.65 kW, according to door sizes.
Protection	IP 54

For other voltages and frequencies, please ENQUIRE

Other characteristics	
Work temperature	Standard: +5...+50°C It cannot be used in cold stores with negative temperature.

Safety	Used procedure
Anti-crushing	Photocells curtain protecting the entire width of the door and up to 2500 mm. height assembled inside the guides.
Vision	Bottom of the canvas painted with safety stripes (diagonal yellow / black).
Manoeuvres	Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c)
Irreversible motor	It must be driven by crank or chain.
Motor with spring safety system	In case of breakage or internal wear.

× **Door speeds**

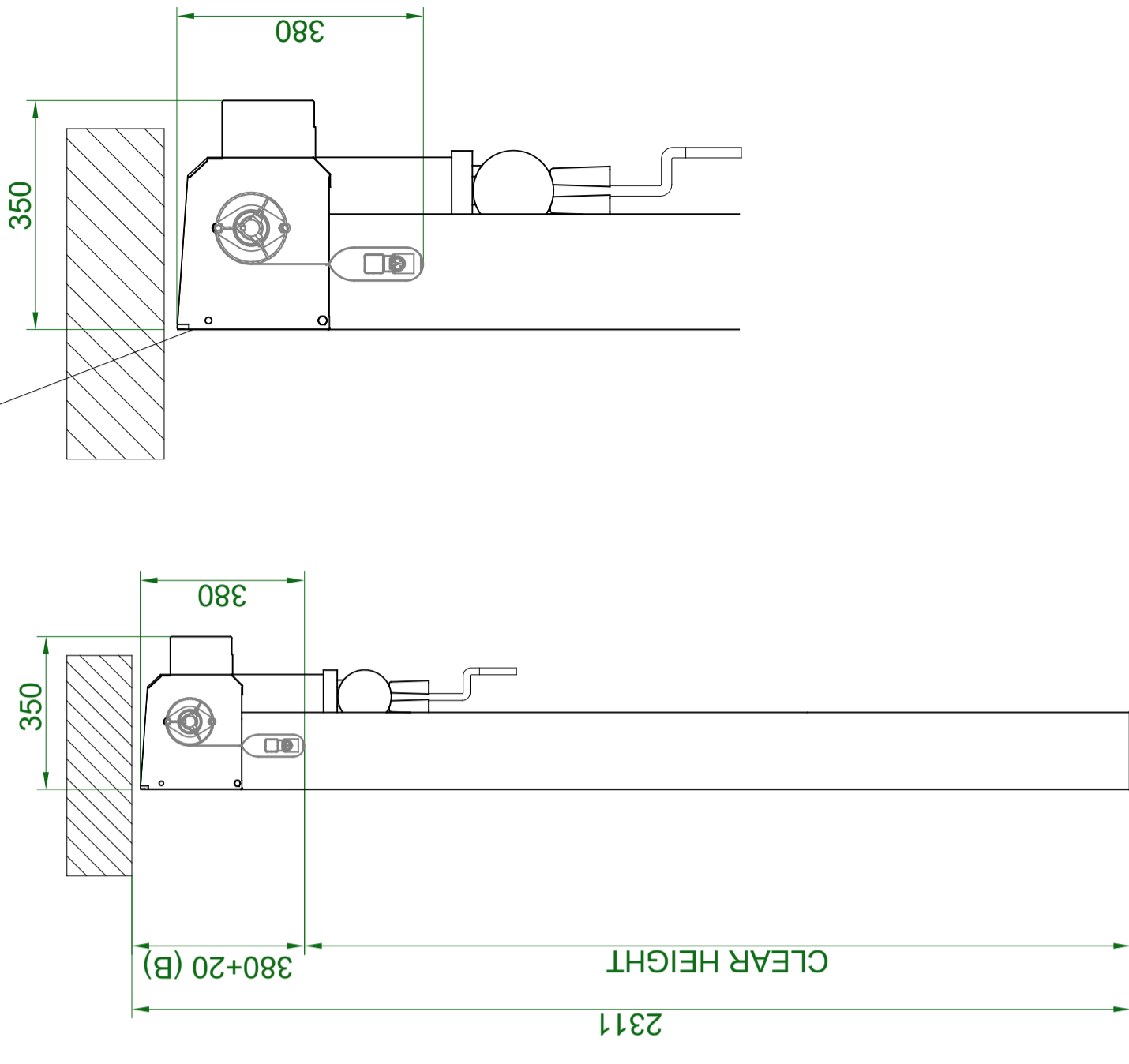
Speeds (m/s)*	Opening	Opening deceleration until	Closing
	0,82 m/s	0.6 m/s	0.6 m/s

*For other speeds, please ENQUIRE

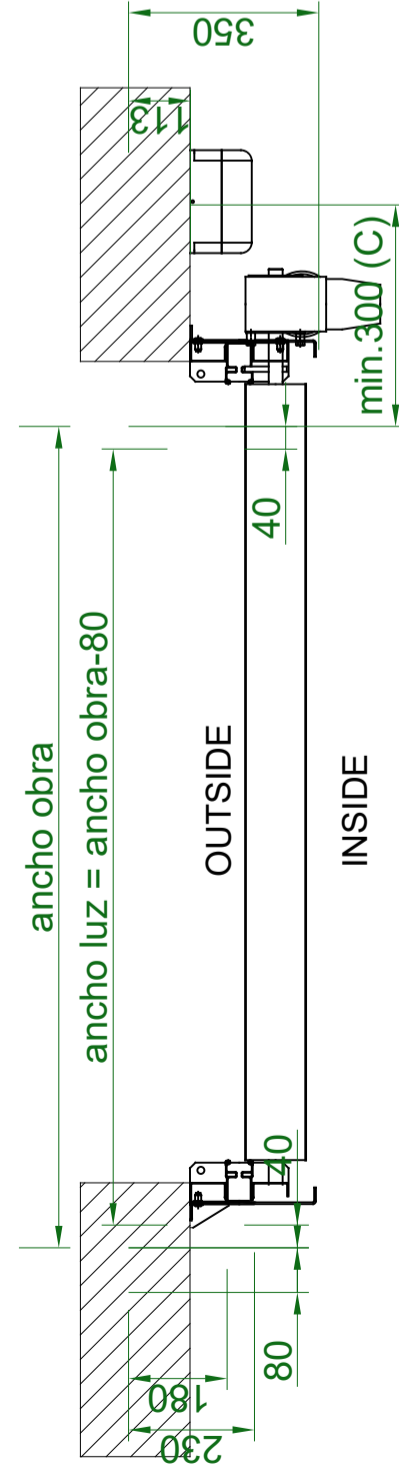
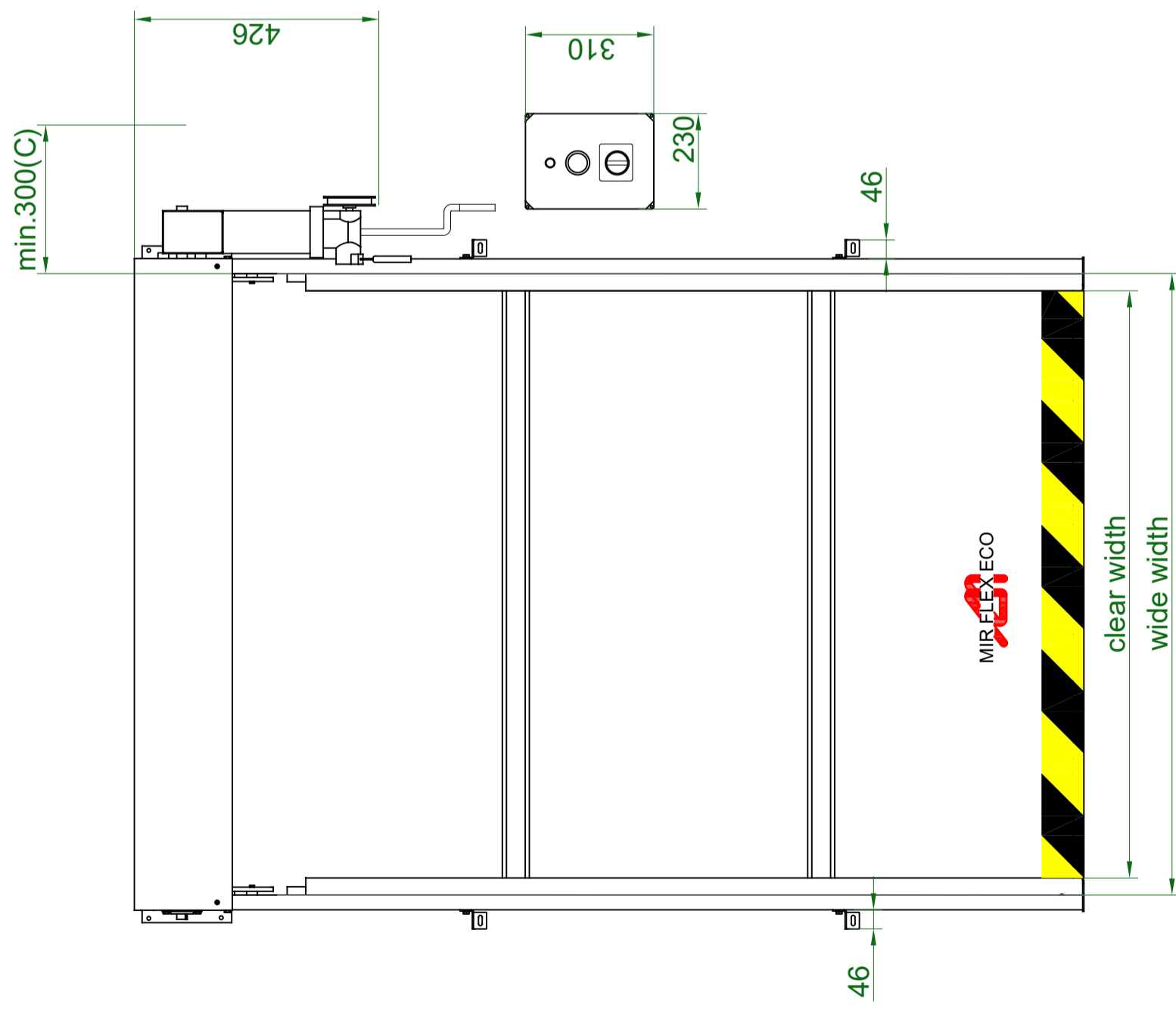
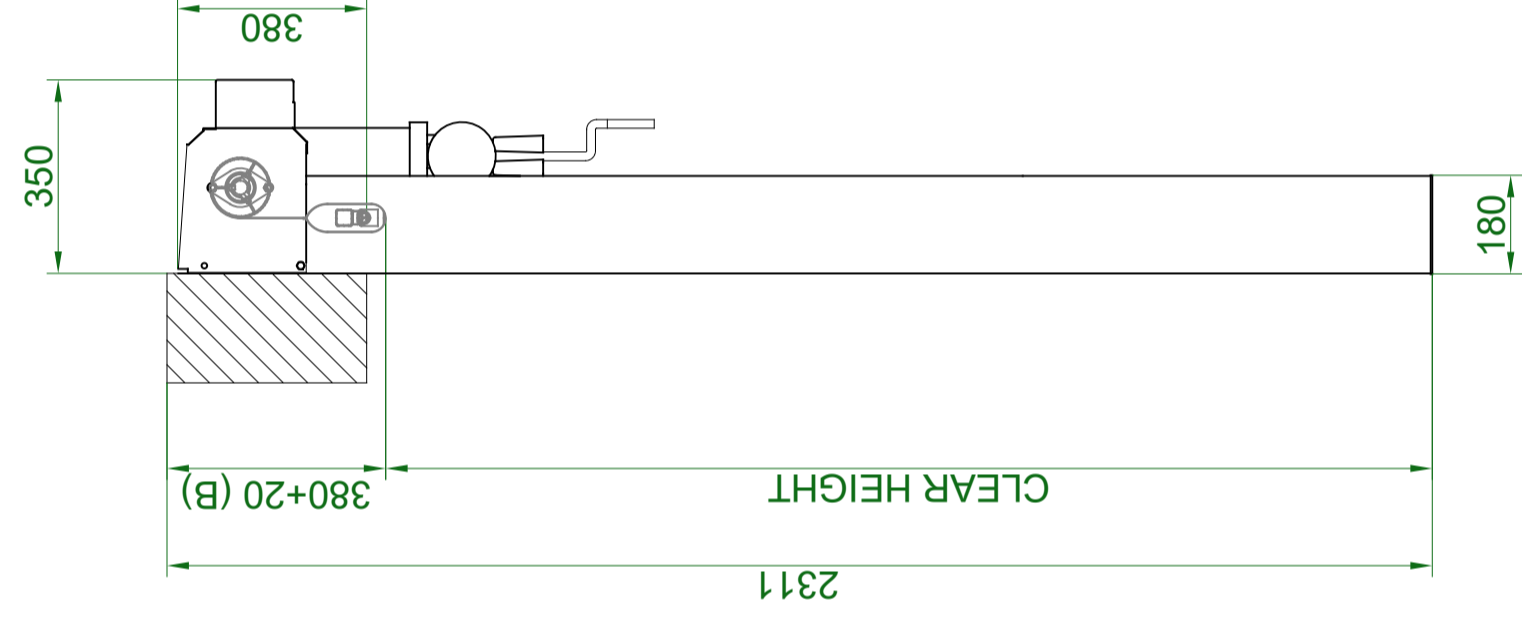
CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

rear cover (optional order)



With front cover and rear cover (optional order)



B	Installation allowance
C	For assembling and disassembling the motor -For total heights up to 3 m manual operation by crank. -For total heights from 3 m manual operation by chain.

MOTOR	POWER	CURRENT (A) 230	VOLTAGE (V) - FREQUENCY (Hz)	POWER SUPPLY CABLE
3,5.160	0,45kw	1,9	2x230-50	2x1,5+earth/10A

Model:	Mir flex Eco monophase
Maximum dimensions:	3300x3500 (width x height)
mounting conditions:	door frontal mounted
Motor:	Elektromaten
Electrical supply:	monophase 230 II
Electrical box	RSPV ECO

For special dimensions consult our technical office

Dibujado	Nombre	Fecha
Comprobado	ofi.technical	06/10/11
Familia:	Rápidas	
Tipo:	Mir Flex Eco	
l/l	Material:	



Título: Mir Flex Eco montaje interior sin dintel	
Código: xxxxxx	
Conjunto al que pertenece: xxxxxx	
Hoja 1 de 3	

INSTANT PASS BASIC SCHEDULE - WIND CLASS 3 (120 KM/H) (*)

DATA (x,x/xxx/x,xx): Torque (Nm x 0,1)/output speed (rpm)/maximum door speed (m/s)

Last Review: 26/07/2012

v = 120 km/h	MOTOR ELEKTROMATEN													
	CLEAR WIDTH (mm.)													
	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	Panels	B (fold)	
2000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	5	958
2200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	5	1008
2400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	5	1058
2600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	5	1108
2800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	940
3000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	973
3200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	1007
3400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	1040
3600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	1073
3800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	7	1107
4000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	985
4200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1010
4400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1035
4600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1060
4800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1085
5000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1110
5200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	9	1135
5400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	11	1051
5600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	11	1071
5800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	11	1091
6000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	11	1111
Reinforcement:	COMPOSITE Bars													

v = 120 km/h	MOTOR ELEKTROMATEN													
	CLEAR WIDTH (mm.)													
	4200	4400	4600	4800	5000	5200	5400	5600	5800	6000	Panels	B (fold)		
2000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	5	958
2200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	5	1008
2400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	5	1058
2600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	5	1108
2800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	940
3000	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	973
3200	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	1007
3400	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	1040
3600	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	1073
3800	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	3.5/160/0.92	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	7	1107
4000	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	985
4200	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	1010
4400	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	1035
4600	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	1060
4800	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	1085
5000	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	9	1135
5200	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	6/115/0.66	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	11	1051
5400	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	11	1071
5600	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	11	1091
5800	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	11	1091
6000	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	12/90/0.52	11	1111
Reinforcement:	COMPOSITE Bars													
STEEL Bars														

Leg Width (G):	200 mm.	220 mm.	250 mm.	300 mm.	400 mm.	500 mm.
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MOTOR	POWER	CURRENT (A)230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	DIM. MOTOR Y x z (mm.)	DIM. MOTOR X (mm.)
3.5/160	0.45 KW	1.9/1.1	3x230/400-50	2x230-50	4x1.5/10A	2x1.5+Hterra/10A	245x500	235
4.5/160	0.55 KW	2.2/1.27	3x230/400-50	2x230-50	4x1.5/10A	2x1.5+Hterra/10A	245x500	235
6/115	0.65 KW	3.1/1.8	3x230/400-50	2x230-50	4x1.5/10A	2x1.5+Hterra/10A	245x500	235
12/90	1.1 KW	14/8.1	3x230/400-50	-	4x1.5/10A	-	341x540	280
28/46	1.1 KW	4.6/2.7	3x230/400-50	-	4x2.5/16A	-	341x540	280
25/60	1.8 KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	341x540	280
20/90	1.8KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	341x540	280

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.

INSTANT PASS ECO SCHEDULE - STANDARD WIND CLASS (CLASS 1, 80 KM/H) (*)

Last Review: 26/07/2012

DATA (x,x/xxx/x,xx): Torque (Nm x 0.1)/output speed (rpm)/maximum door speed (m/s)

v = 80 km/h		MOTOR ELEKTROMATEN																	
		CLEAR WIDTH (mm.)																	
		2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	Panels	B (fold)
2000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	958
2200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1008
2400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1058
2600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1108
2800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	940
3000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	973
3200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1007
3400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1040
3600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1073
3800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1107
4000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	985
4200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1010
4400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1035
4600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1060
4800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1085
5000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1110
5200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1135
5400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1051
5600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1071
5800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1091
6000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1111
Reinforcement:		COMPOSITE Bars																	

Leg Width (G):	200 mm.	220 mm.	250 mm.	300 mm.	400 mm.	500 mm.
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MOTOR	POWER	CURRENT (A)230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	DIM. MOTOR y x z (mm.)	DIM. MOTOR X (mm.)
3.5/160	0.45 KW	1.9/1.1	3x230/400-50	2x230-50	4x1.5/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	245x500	235
4.5/160	0.55 KW	2.2/1.27	3x230/400-50	2x230-50	4x1.5/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	245x500	235
6/115	0.65 KW	3.1/1.8	3x230/400-50	2x230-50	4x1.5/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	2x1.5-Hierrel/10A	245x500	235
12/90	1.5 KW	14/8.1	3x230/400-50	-	4x1.5/10A	-	-	-	341x540	280
28/46	1.1 KW	4.6/2.7	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280
25/60	1.8 KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280
20/90	1.8KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.

INSTANT PASS ECO SCHEDULE - WIND CLASS 2 (95 KM/H) (*)

DATA (x,x/xxx/x,xx): Torque (Nm x 0.1)/output speed (rpm)/maximum door speed (m/s)

Last Review: 26/07/2012

MOTOR ELEKTROMATEN																					
		CLEAR WIDTH (mm.)																			
		2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	Panels	B (fold)		
2000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	958		
2200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1008		
2400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1058		
2600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1108		
2800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	940		
3000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	973		
3200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1007		
3400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1040		
3600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1073		
3800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1107		
4000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	985		
4200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1010		
4400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1035		
4600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1060		
4800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1085		
5000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1110		
5200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1135		
5400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1051		
5600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1071		
5800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1091		
6000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1111		
Reinforcement:		COMPOSITE Bars																			
Leg Width (G):		200 mm.	220 mm.	250 mm.	300 mm.	400 mm.	500 mm.														

MOTOR	POWER	CURRENT (A)230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	SINGLE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	DIM. MOTOR Y x Z (mm.)	DIM. MOTOR X (mm.)
3.5/160	0.45 KW	1.9/1.1	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	245x500	235
4.5/160	0.55 KW	2.1/1.27	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	245x500	235
6/115	0.65 KW	3.1/1.8	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	2x1.5/Hierro/10A	245x500	235
12/90	1.5 KW	14/8.1	3x230/400-50	-	4x1.5/10A	-	-	-	341x540	280
28/46	1.1 KW	4.6/2.7	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280
25/60	1.8 KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280
20/90	1.8KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	-	341x540	280

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.

INSTANT PASS ECO SCHEDULE - WIND CLASS 3 (120 KM/H) (*)

Last Review: 26/07/2012

DATA (x/x/xxx/x,xx): Torque (Nm x 0.1)/output speed (rpm)/maximum door speed (m/s)

v = 120 km/h		MOTOR ELEKTROMATEN																		
		CLEAR WIDTH (mm.)																		
		2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	Panels	B (fold)	
2000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	958
2200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1008
2400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1058
2600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	5	1108
2800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	940
3000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	973
3200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1007
3400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1040
3600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1073
3800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	7	1107
4000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	985
4200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1010
4400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1035
4600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1060
4800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1085
5000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1110
5200	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	9	1135
5400	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1051
5600	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1071
5800	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1091
6000	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	3.5 / 160/0.92	11	1111
Reinforcement:																				STEEL BARS

Leg Width (G):	200 mm.	220 mm.	250 mm.	300 mm.	400 mm.	500 mm.
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MOTOR	POWER	CURRENT (A)230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	THREE PHASE POWER SUPPLY CABLE	SINGLE POWER SUPPLY CABLE	DIM. MOTOR Y x Z (mm.)	DIM. MOTOR X (mm.)
3.5/160	0.45 KW	1.9/1.1	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hiera/10A	2x1.5/Hiera/10A	4x1.5/10A	2x1.5/Hiera/10A	245x500	235
4.5/160	0.55 KW	2.1/1.27	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hiera/10A	2x1.5/Hiera/10A	4x1.5/10A	2x1.5/Hiera/10A	245x500	235
6/115	0.65 KW	3.1/1.8	3x230/400-50	2x230-50	4x1.5/10A	2x1.5/Hiera/10A	2x1.5/Hiera/10A	4x1.5/10A	2x1.5/Hiera/10A	245x500	235
12/90	1.5 KW	14/8.1	3x230/400-50	-	4x1.5/10A	-	-	4x1.5/10A	-	341x540	280
28/46	1.1 KW	4.6/2.7	3x230/400-50	-	4x2.5/16A	-	-	4x2.5/16A	-	341x540	280
25/60	1.8 KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	4x2.5/16A	-	341x540	280
20/90	1.8KW	6.6/3.9	3x230/400-50	-	4x2.5/16A	-	-	4x2.5/16A	-	341x540	280

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.

INSTANT PASS ISO SCHEDULE - STANDARD WIND CLASS (CLASS 1, 80 KM/H) (*)

Last Review: 26/07/2012

DATA (x,x/xxx/x,xx): Power (CV)/output speed (rpm)/maximum door speed (m/s)

CLEAR HEIGHT (m.)	MOTOR PACT													
	CLEAR WIDTH (mm.)													
	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	Panels	B (fold)	
2000	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	5	958
2200	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	5	1008
2400	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	5	1058
2600	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	5	1108
2800	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	940
3000	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	973
3200	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	1007
3400	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	1040
3600	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	1073
3800	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,5/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	7	1107
4000	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	0,75/142/0,82	1,5/142/0,82	1,5/142/0,82	1,5/142/0,82	9	985
Reinforcement:	COMPOSITE Bars													

Leg Width (G):	200 mm.	220 mm.	250 mm.	300 mm.	400 mm.	500 mm.
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MOTOR	POWER	CURRENT (A)230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	SINGLE PHASE SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE PHASE POWER SUPPLY CABLE	DIM. MOTOR X x Z (mm.)	DIM. A (mm.)
0,5 CV	0,37 KW	1,7/1,0	3x230/400-50	3x230/400-50	2x230-50	4x1,5/10A	2x1,5+tierra/10A	245x400	70
0,75 CV	0,55 KW	3,8/2,2	3x230/400-50	3x230/400-50	2x230-50	4x1,5/10A	2x1,5+tierra/10A	300x470	70
1 CV	0,75 KW	3,6/2,1	3x230/400-50	3x230/400-50	2x230-50	4x1,5/10A	2x1,5+tierra/10A	300x470	70
1,5 CV	1,1 KW	4,8/2,8	3x230/400-50	3x230/400-50	-	4x1,5/10A	-	300x530	120
2 CV	1,5 KW	6/3,5	3x230/400-50	3x230/400-50	-	4x2,5/16A	-	300x570	110
3 CV	2,2 KW	9,2/5,3	3x230/400-50	3x230/400-50	-	4x2,5/16A	-	350x650	110
4 CV	3 KW	12/7,7	3x230/400-50	3x230/400-50	-	4x2,5/16A	-	350x650	110
5,5 CV	4 KW	16/9,2	3x230/400-50	3x230/400-50	-	4x2,5/16A	-	355x670	130

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.

INSTANT PASS LACQUERED SCHEDULE - STANDARD WIND CLASS (CLASS 1, 80 KM/H) (*)

Last Review: 26/07/2012

DATA (x,x/xxx/x,xx): Power (CV)/output speed (rpm)/maximum door speed (m/s)

v = 80 km/h		MOTOR PACT											
		CLEAR WIDTH (mm.)											
CLEAR HEIGH (mm.)	v	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	Panels	B (fold)
		2000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5
2200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1008	
2400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1058	
2600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1108	
2800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	940	
3000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	973	
3200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1007	
3400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1040	
3600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1073	
3800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1107	
4000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	985	
4200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1010	
4400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1035	
4600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1060	
4800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1085	
5000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1110	
5060	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1118	
Reinforcement:													

COMPOSITE Bars

v = 80 km/h		MOTOR PACT										
		CLEAR WIDTH (mm.)										
CLEAR HEIGH (mm.)	v	4000	4200	4400	4600	4800	5000	5200	5400	5600	Panels	B (fold)
		2000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82
2200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1008
2400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1058
2600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	5	1108
2800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	940
3000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	973
3200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1007
3400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1040
3600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1073
3800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	7	1107
4000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	985
4200	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1010
4400	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1035
4600	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1060
4800	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1085
5000	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1110
5060	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	0.5/142/0.82	9	1118
Reinforcement:												

COMPOSITE Bars

MOTOR	POWER	CURRENT (A)/230V/415V	THREE PHASE SUPPLY(V)-FREQUENCY(Hz)	SINGLE POWER SUPPLY(V)-FREQUENCY(Hz)	THREE PHASE POWER SUPPLY CABLE	SINGLE PHASE POWER SUPPLY CABLE	SINGLE PHASE POWER SUPPLY CABLE	DIM. MOTOR X x Z (mm.)	DIM. A (mm.)
0.5 CV	0.37 KW	1.7/1.0	3x230/400-50	2x230-50	4x1.5/10A	4x1.5/10A	2x1.5+tierra/10A	245x400	70
0.75 CV	0.55 KW	3.8/2.2	3x230/400-50	2x230-50	4x1.5/10A	4x1.5/10A	2x1.5+tierra/10A	300x470	70
1 CV	0.75 KW	3.6/2.1	3x230/400-50	2x230-50	4x1.5/10A	4x1.5/10A	2x1.5+tierra/10A	300x470	70
1.5 CV	1.1 KW	4.8/2.8	3x230/400-50	-	4x1.5/10A	-	-	300x530	120
2 CV	1.5 KW	6/3.5	3x230/400-50	-	4x2.5/16A	-	-	300x570	110
3 CV	2.2 KW	9.2/5.3	3x230/400-50	-	4x2.5/16A	-	-	350x650	110
4 CV	3 KW	12.1/7	3x230/400-50	-	4x2.5/16A	-	-	350x650	110
5.5 CV	4 KW	16/9.2	3x230/400-50	-	4x2.5/16A	-	-	355x670	130

(*) The resistance to the wing is considered with the door closed. For doors which must be operative with wind loads, special reinforcements and calculations must be added.