

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**

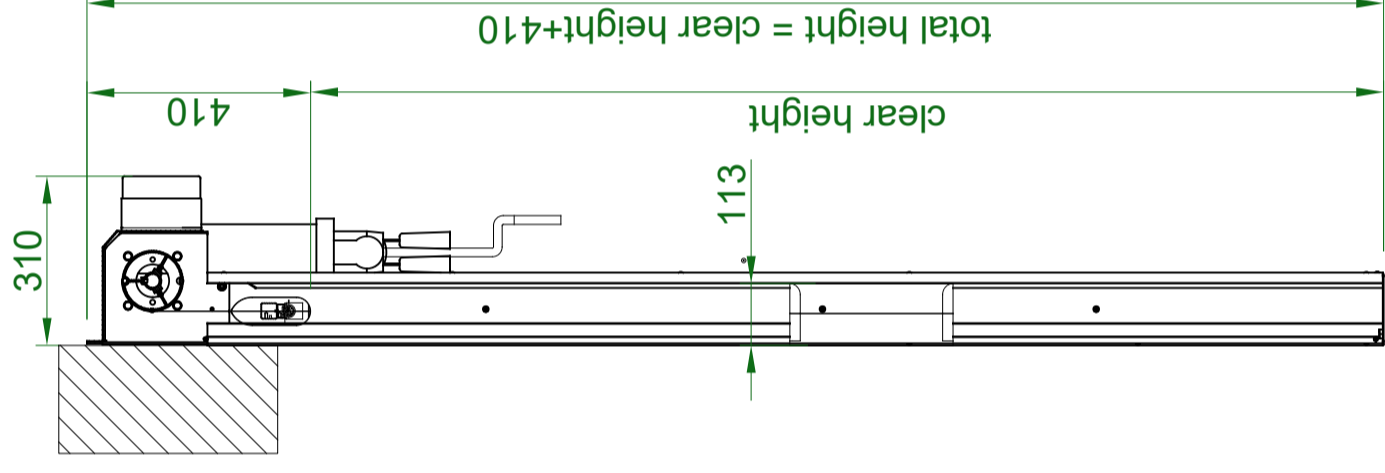
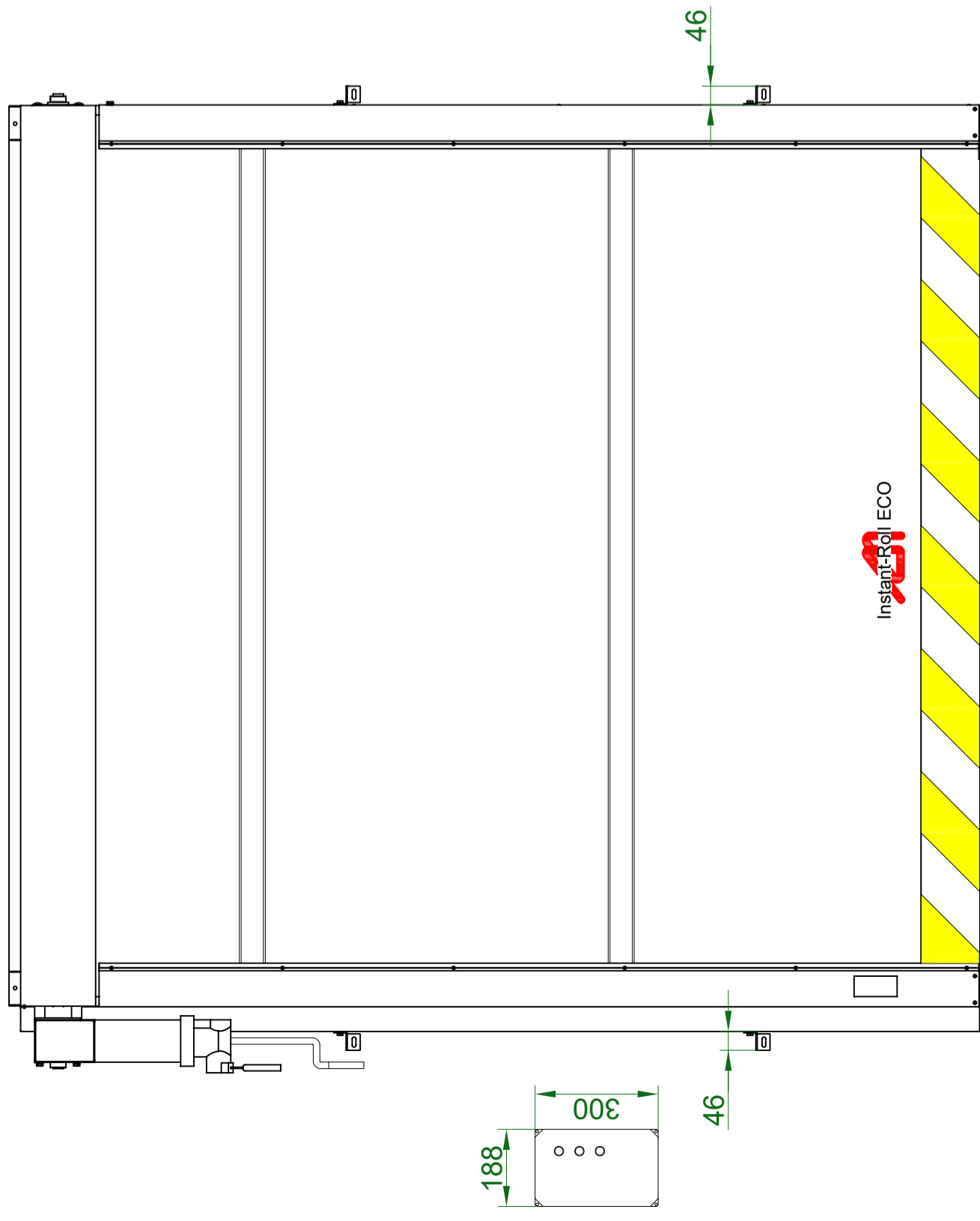
Speeds (m/s) *	Opening	Opening deceleration until	Closing
		1 m/s	0.6 m/s

*For other speeds, please ENQUIRE

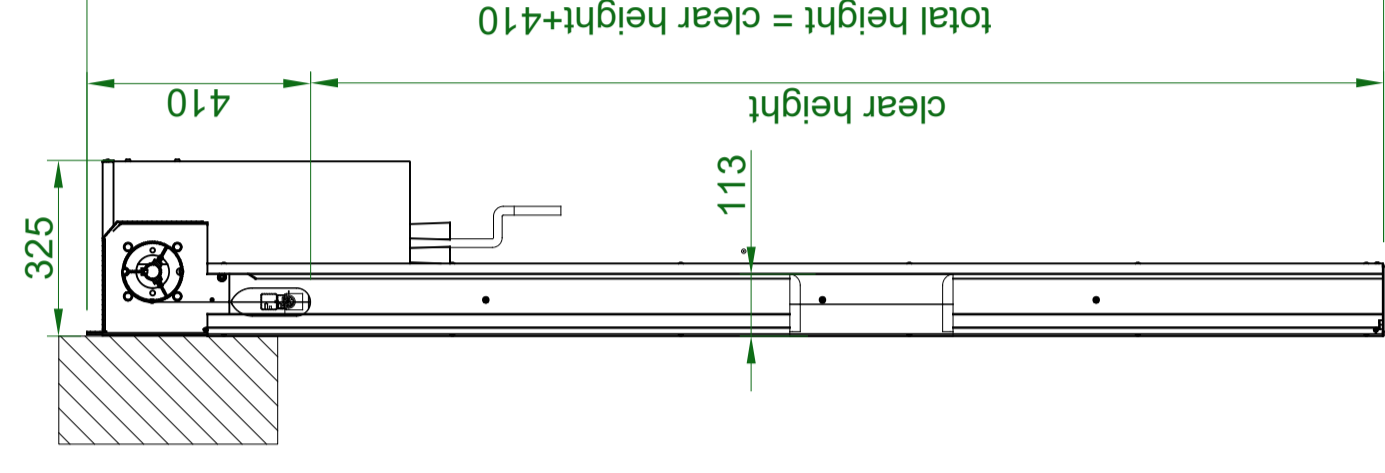
CERTIFICATES AND STANDARDIZATIONS

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.

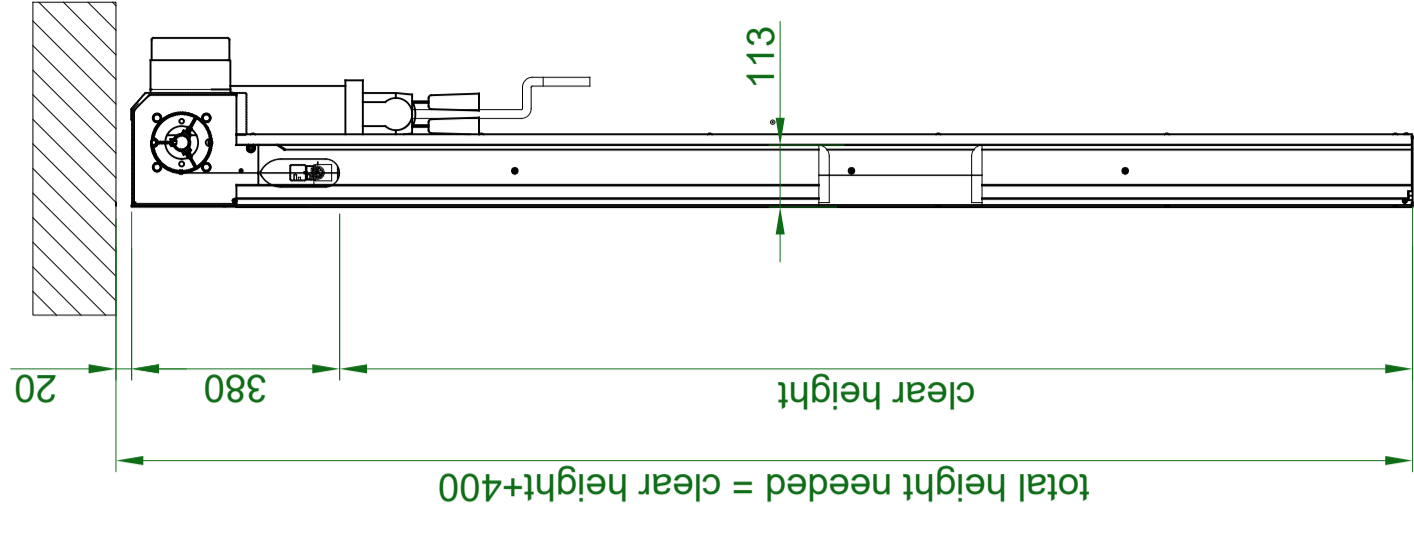
-For clear width up to 3000 A=100
 A -For clear width over 3000 A=150



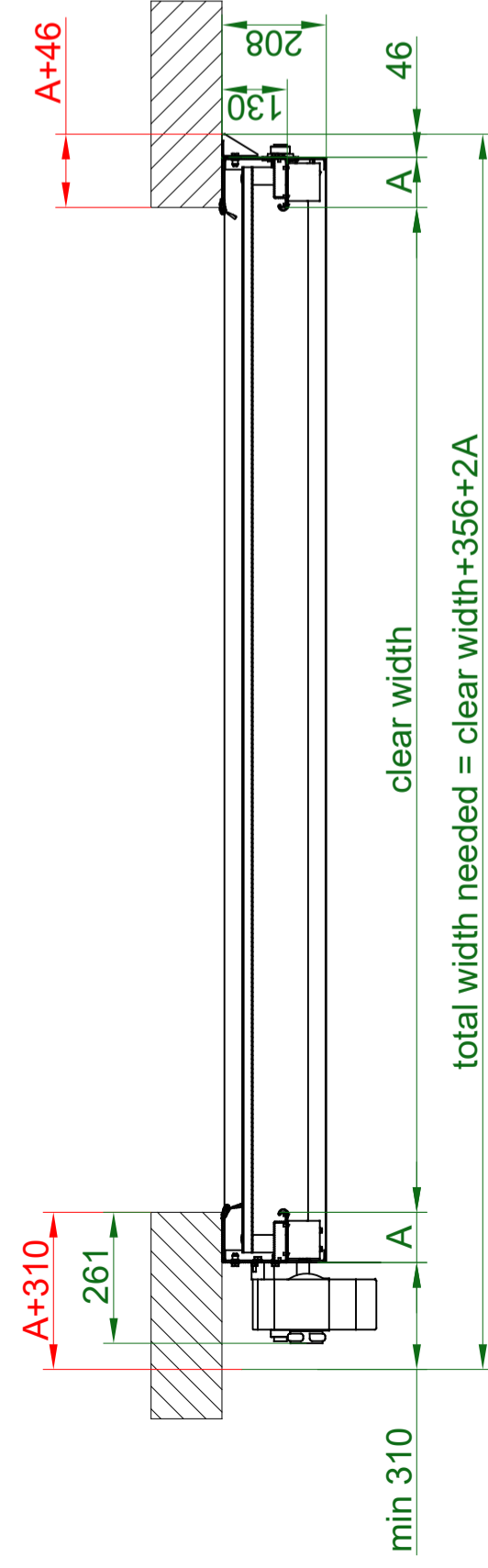
Standard



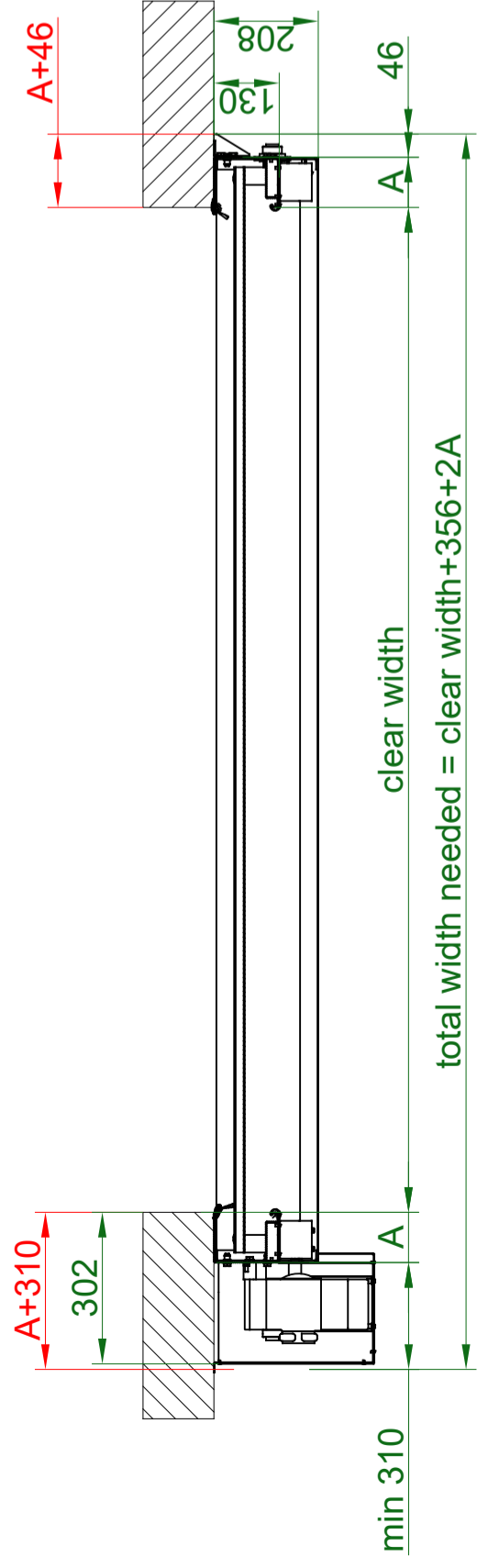
With motor cover
(optional order)



With frontal and rear cover
(optional order)

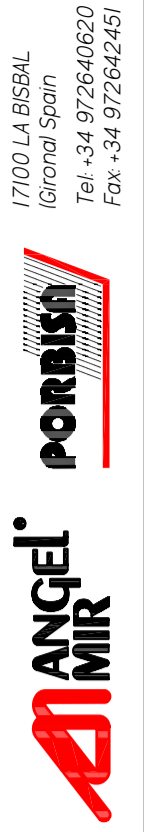


Standard



With motor cover (optional order)

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



17100 LA BISBAL
 (Granada Spain)
 Tel. +34 972640620
 Fax. +34 972642451