



ZOOTECHNICAL CLIMATE SOLUTIONS



WINDOW

Light Progress has been involved since 1987 in the design and production of solutions for air treatment and improvement of environmental conditions.

Applications in the field of zootechnical ventilation have always been one of our main focuses.

CLIMA PROGRESS is the division of Light Progress S.r.l. which deals with products for ventilation in the zootechnical field.

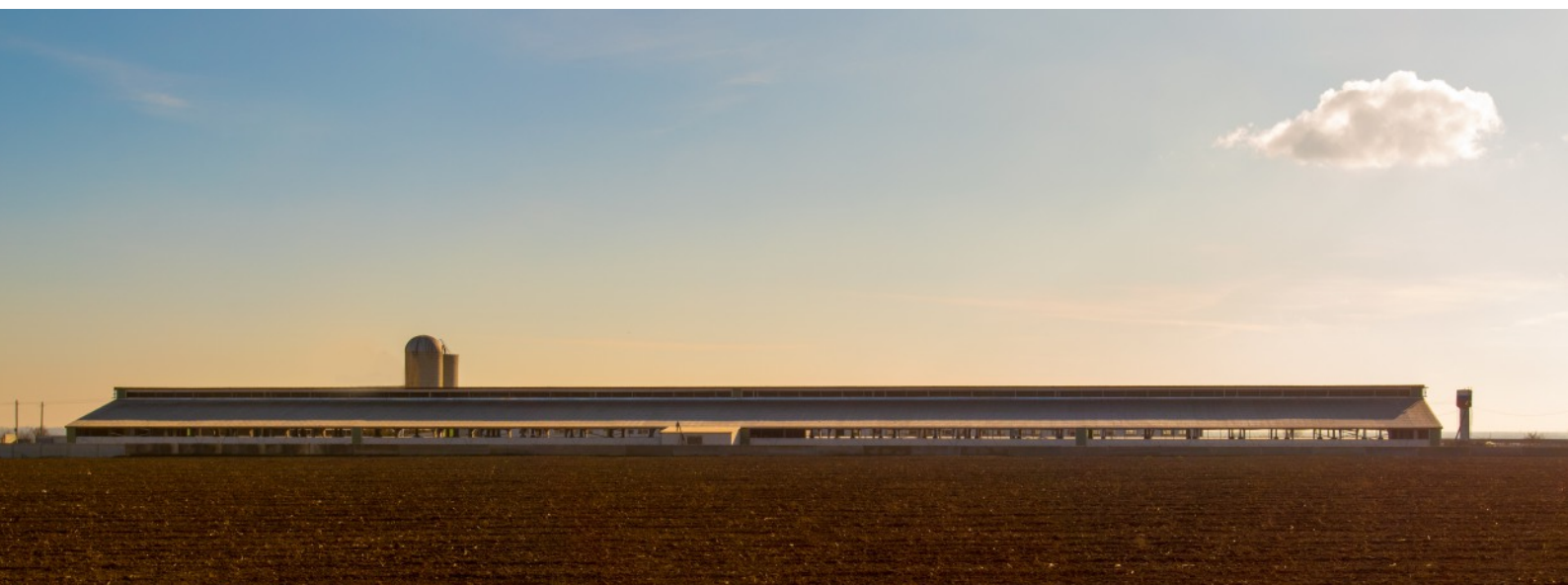
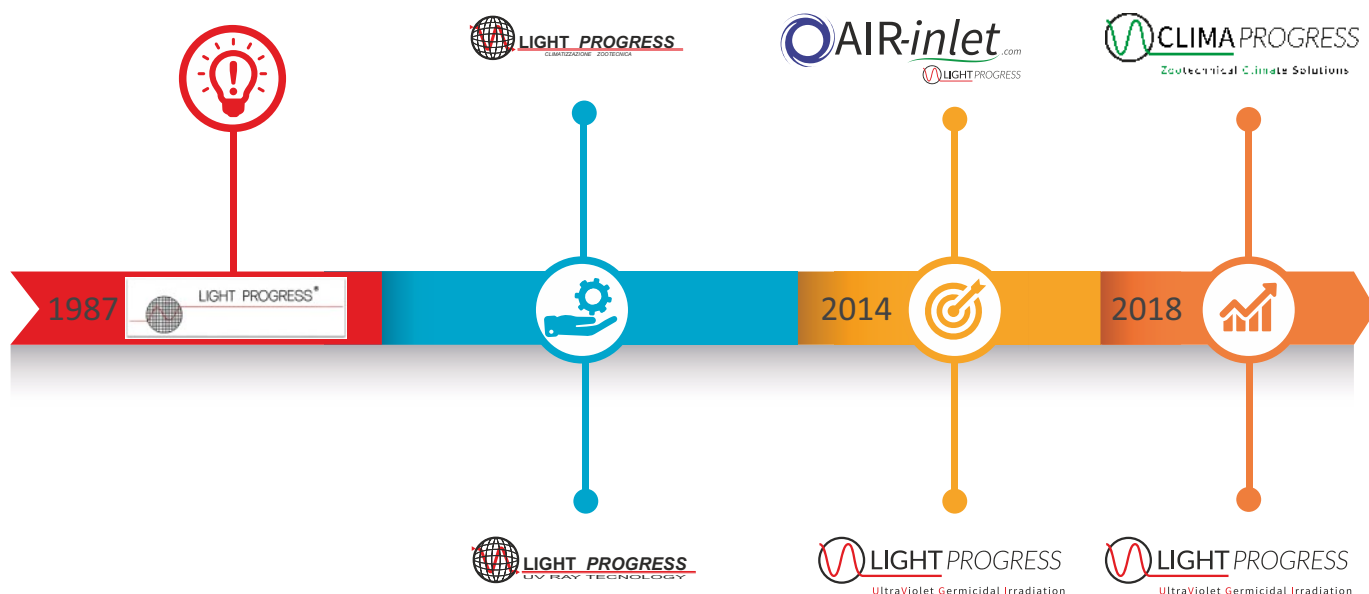
With the new brand CLIMA PROGRESS we have recently re-branded and differentiated our division involved in the design and production of equipment and automation for livestock climatization as well as the calculation and customization of their installation in existing or newly built farms.

Our experience has been constantly growing in thirty years of applications, and it has been enriched thanks to all the collaborations with technicians and designers of this sector. Our orientation to the client and his needs make us paying attention and care to the design of flexible and customizable solutions.

Our offer of practical systems and the use of high-quality materials take into consideration the applications of our products in particularly difficult environments and where aggressive agents are present, such as farms.

Every single item is entirely built in our headquarters in Italy and undergoes a specific and individual test. This attention distinguishes us and qualifies CLIMA PROGRESS for reliability, efficiency and durability of our products.

Our team is ready to meet customer requests by providing a thorough know-how and an extreme ability to adapt any product to customer needs.



WINDOW series includes important features, such as:

- Models are available from 1 to 14 plates (10 for WINDOW 30)
- Plates are available in shock resistant PVC or alveolar polycarbonate
- Plates are inserted in nylon-glass plates holders
- Side uprights in PVC or aluminum
- Common crossbar or «L» shaped crossbar with or without gaskets.
- Models available with central fulcrum or wasistas opening
- Several ways of opening automation (servomotor, RPM reducer)
- Hermetical sealing outline due to plate's joint shape border.

PVC plates

WINDOW

p. 1

Polycarbonate plates (h15)

WINDOW 15

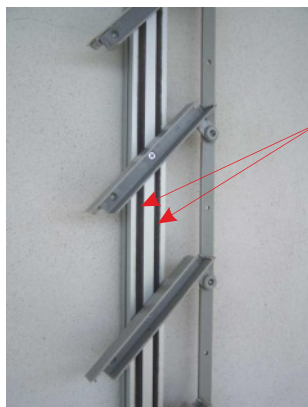
p. 10

Polycarbonate plates (h30)

WINDOW 30

p. 13

WINDOW



Double seal brush between upright and plateholder



TECHNICAL DATA

15mm, white, shock resistant PVC plates

Hermetical sealing outline due to plates's joint shape border (Pic.1)

Plates are inserted in nylon-glass plates holders

Plates-holders pivot on side uprights, rectangular shaped made in PVC or aluminum

Upright joined together by crossbars made in anodized aluminum

Plates-holders are linked between themselves through a nylon connecting rod.

CENTRAL FULCRUM MODEL

WINDOW ...BG (aluminum crossbars + gasket)

WINDOW ...G (aluminum "L" shape crossbar + gasket)

WINDOW ... (aluminum crossbar no gasket)

WASISTAS MODEL

WINDOW ...BGW (aluminum crossbars + gasket)

WINDOW ...GW (aluminum "L" shape crossbar + gasket)

WINDOW ...W (aluminum crossbar no gasket)

MODEL	NUMBER OF PLATES	WINDOW'S HEIGHT (cm)
WINDOW 1 BG	1	18
WINDOW 2 BG	2	33
WINDOW 3 BG	3	48
WINDOW 4 BG	4	63
WINDOW 5 BG	5	78
WINDOW 6 BG	6	94
WINDOW 7 BG	7	109
WINDOW 8 BG	8	124
WINDOW 9 BG	9	139
WINDOW 10 BG	10	154
WINDOW 11 BG	11	170
WINDOW 12 BG	12	184
WINDOW 13 BG	13	200
WINDOW 14 BG	14	215

CONFIGURATION

WINDOW / n° of plates / contact / open

Example:

WINDOW / n° of plates / contact / opening

1	8
2	9
3	10
4	11
5	12
6	13
7	14

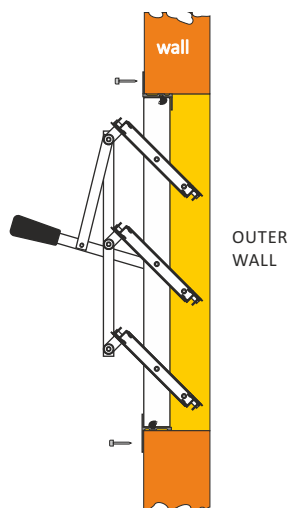
BG
G

W

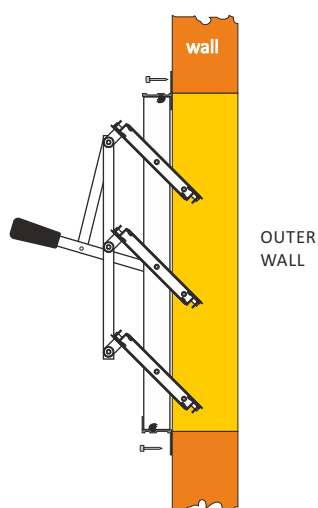
WIDOWS' length size is made according to customer request.

CONTACT

BG = Aluminum section bar with lower + upper stroke of 3 cm+ gasket

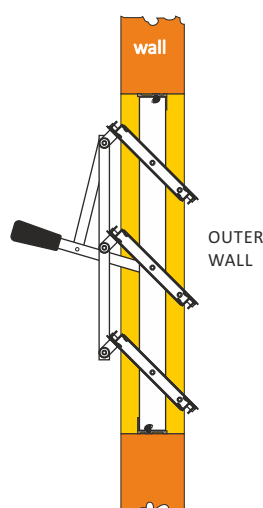


Example 1
WINDOW 3 BG



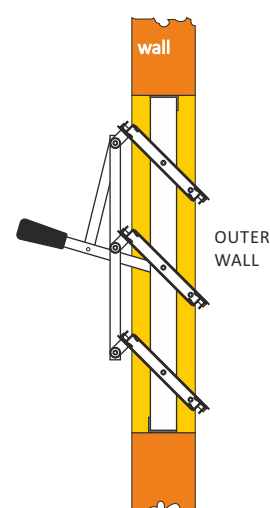
Example 2
WINDOW 3 BG

G = aluminum section bar, "L" shape + gasket



Example 2
WINDOW 3G

aluminum section bar, "L" shape, no gasket



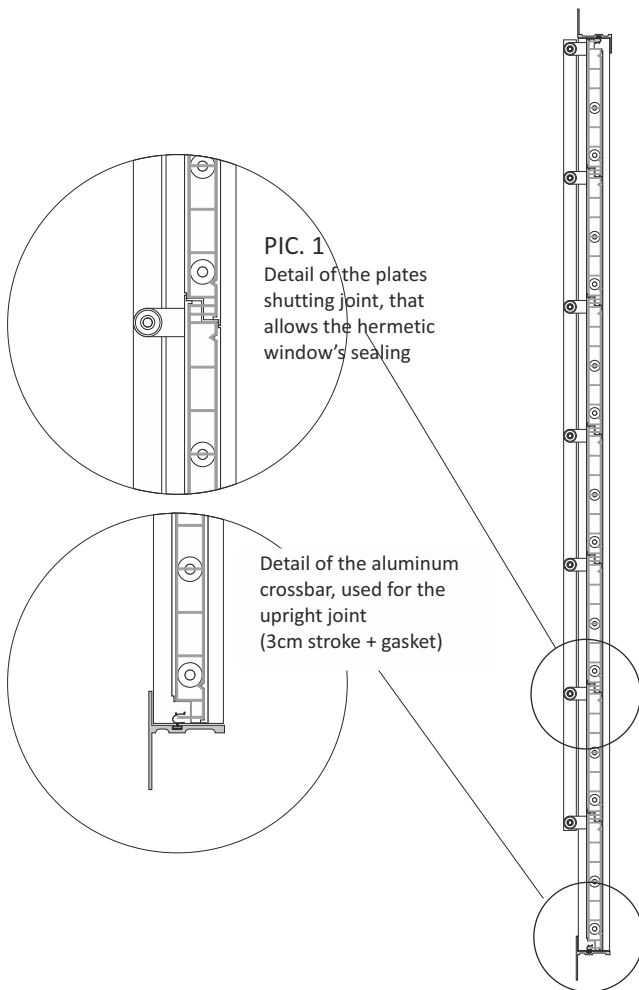
Example 2
WINDOW 3

The most commonly used methods for windows opening/closing are:

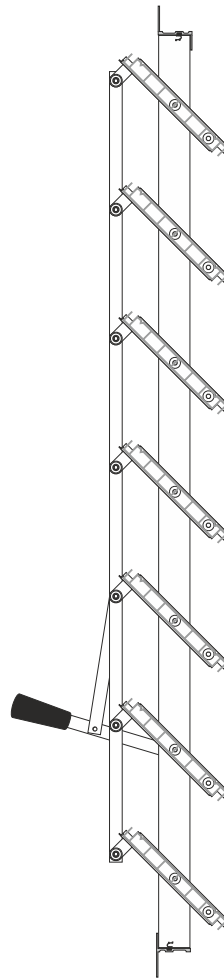
- ⑩ Manually using a handle for all the plates in the window height-wise, or by groups of plates each group with its own handle.
- ⑩ Automatically by means of control units that control reduction gears rotating a shaft equipped with levers that operate the opening/closing of the windows. This shaft features a maximum length of approximately 25 m per reduction gear side.
- ⑩ Automatically by means of control units that control small servomotors. Each servomotor can operate up to 6/7 m² of window.

OPENING

Section of closed window

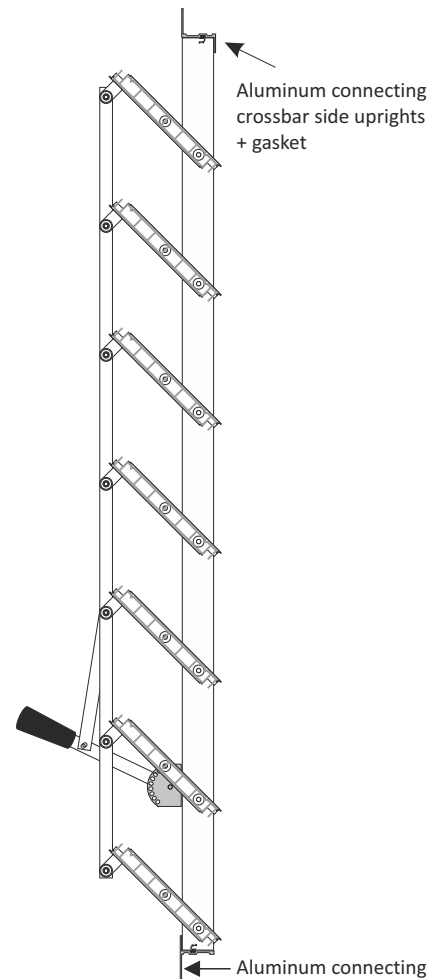


Central fulcrum window



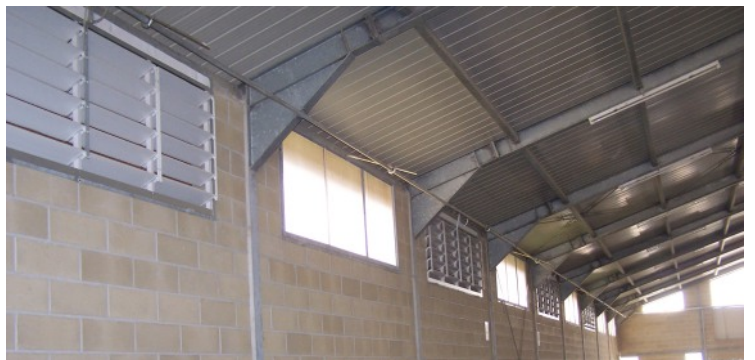
Example
WINDOW 7 BG

W = Wasistas window



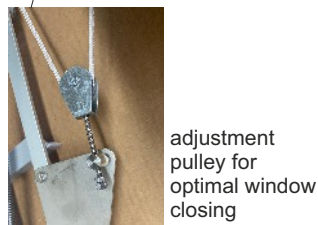
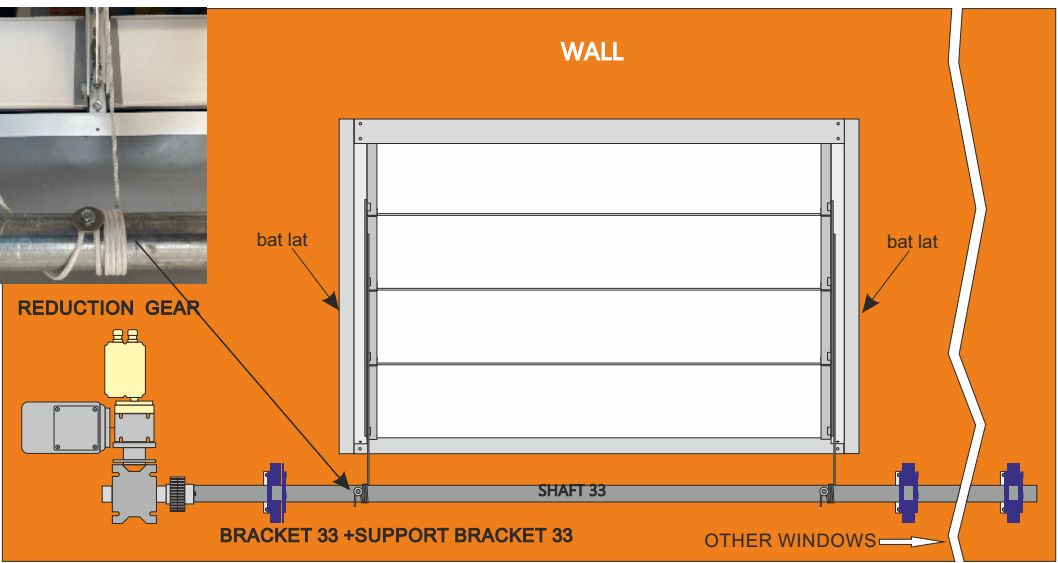
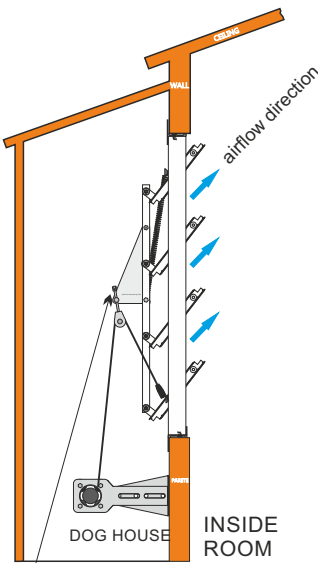
Example
WINDOW 7 BGW

AUTOMATION



AUTOMATION WITH SPRING - TOWING WITH ROTATING TUBE OUTSIDE THE WINDOWS BGW ROOM

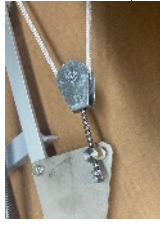
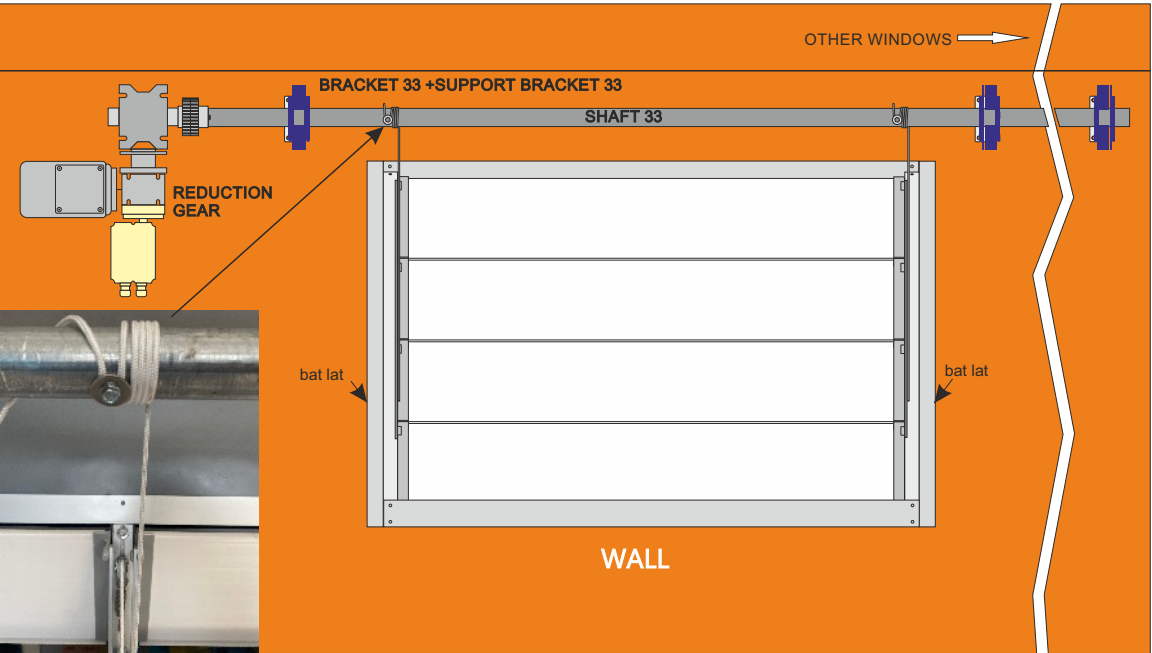
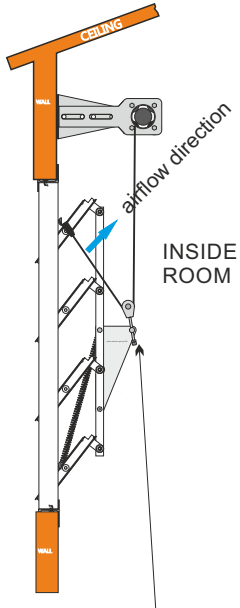
WINDOW 4 INSTALLATION EXAMPLE



adjustment pulley for optimal window closing

AUTOMATION WITH SPRING - TOWING WITH ROTATING TUBE INSIDE THE WINDOWS BGW ROOM

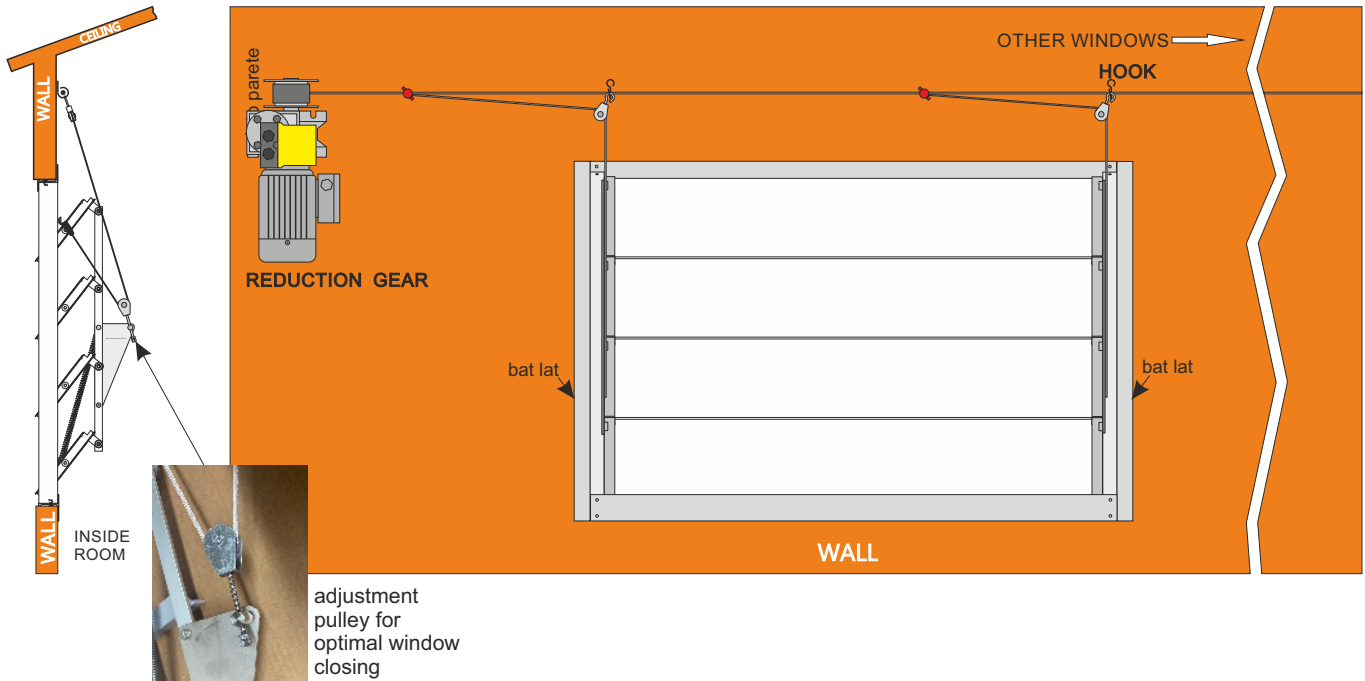
WINDOW 4 INSTALLATION EXAMPLE



adjustment pulley for optimal window closing

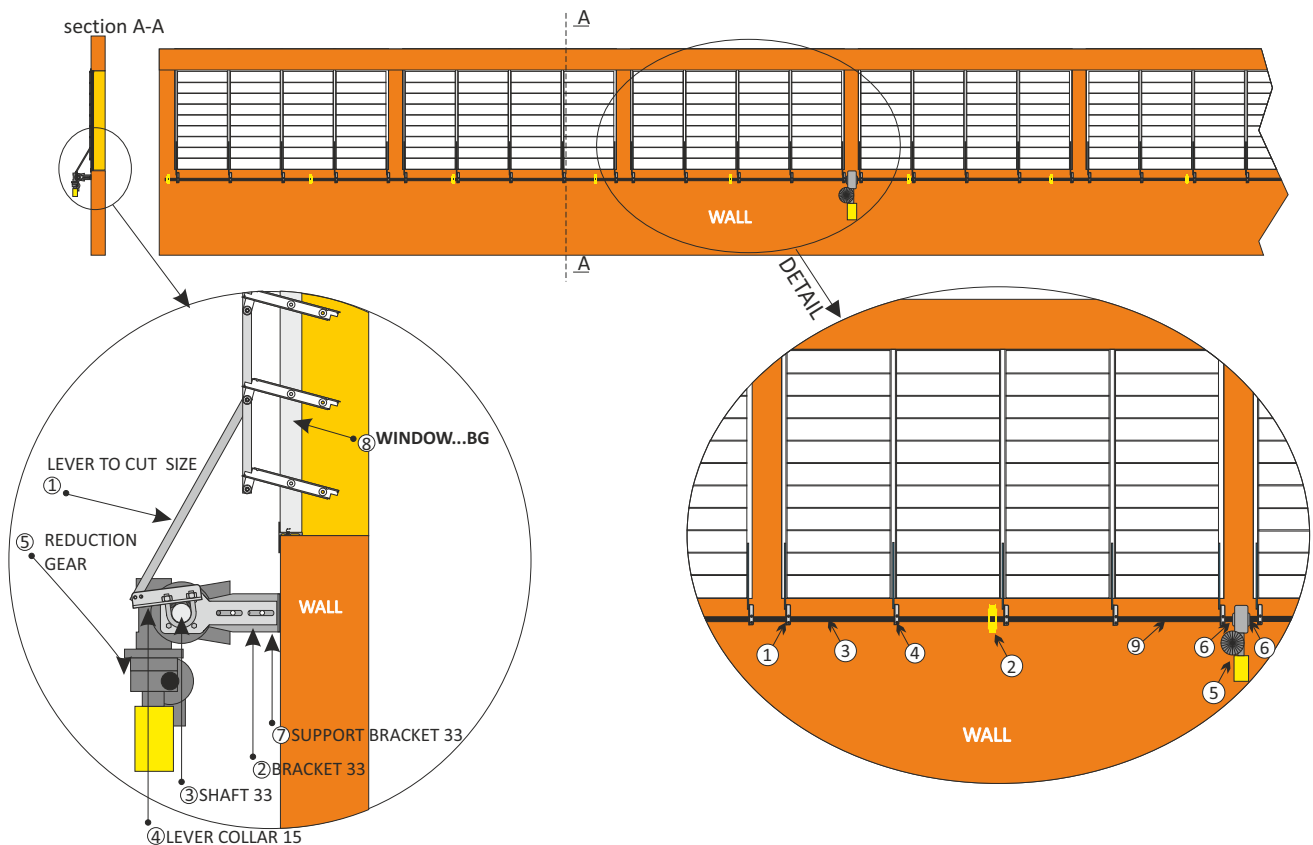
SPRING - TOWING WITH CABLE INSIDE THE WINDOWS BGW ROOM

WINDOW 4 INSTALLATION EXAMPLE



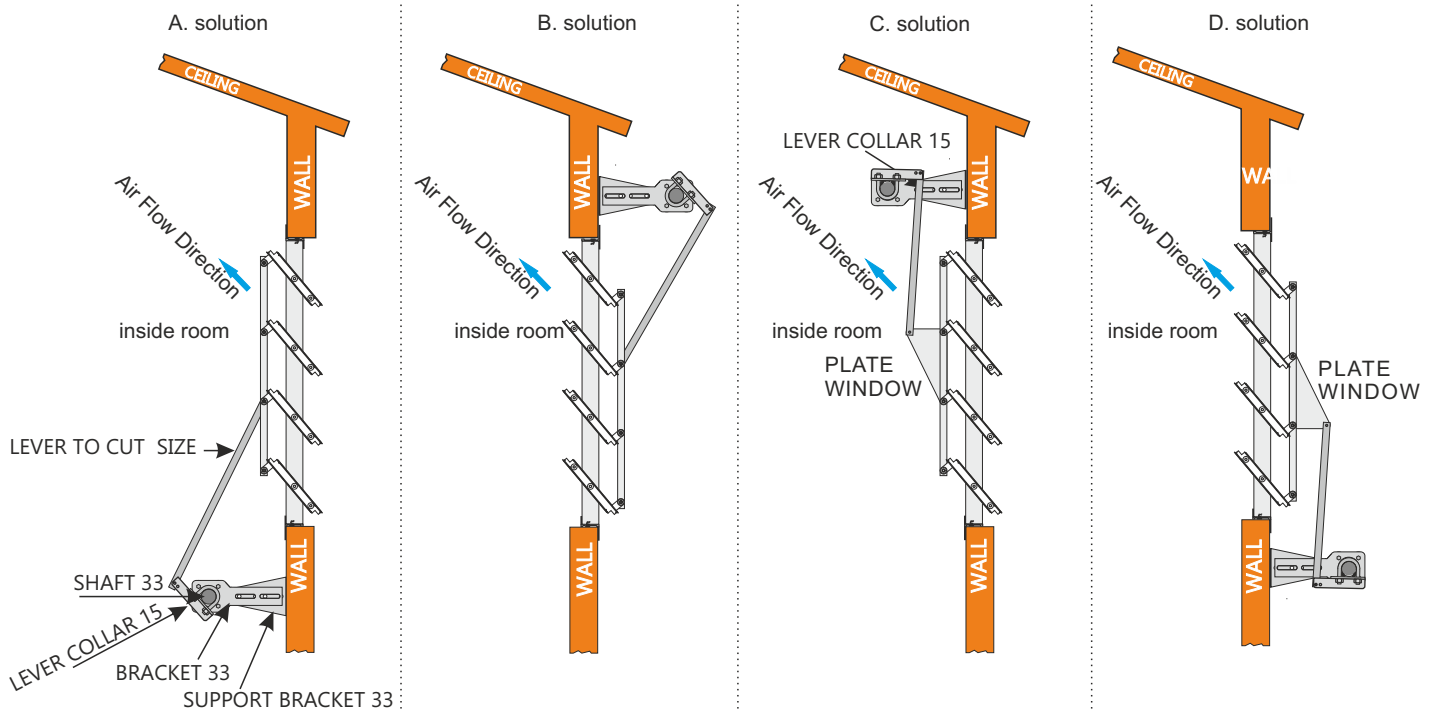
AUTOMATION WITH BRACKETS

MODEL INSTALLATION

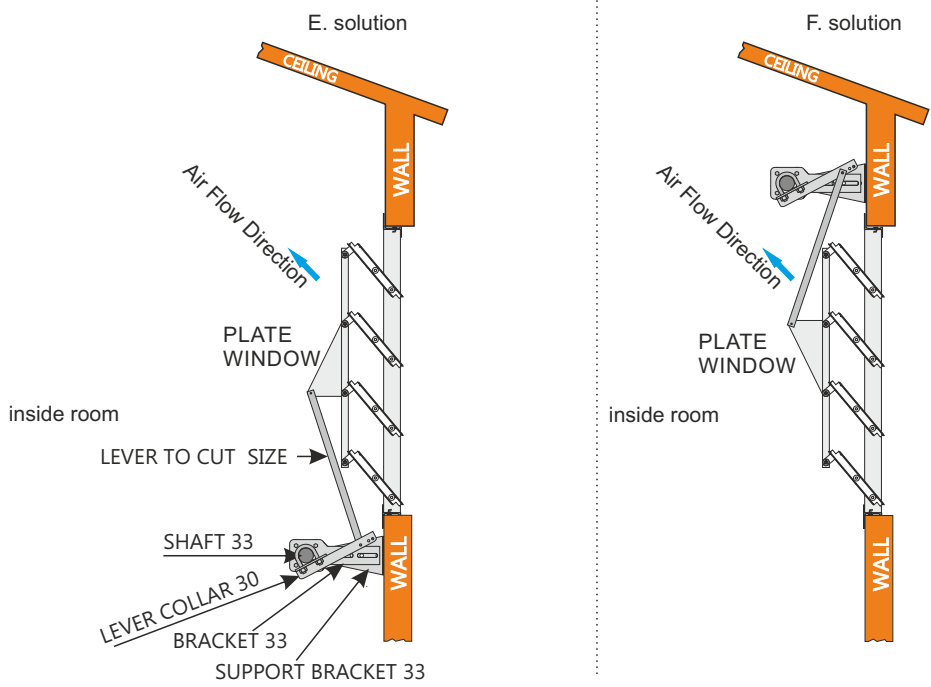


AUTOMATION WITH BRACKETS

CENTRAL FULCRUM POSITIONING SOLUTIONS

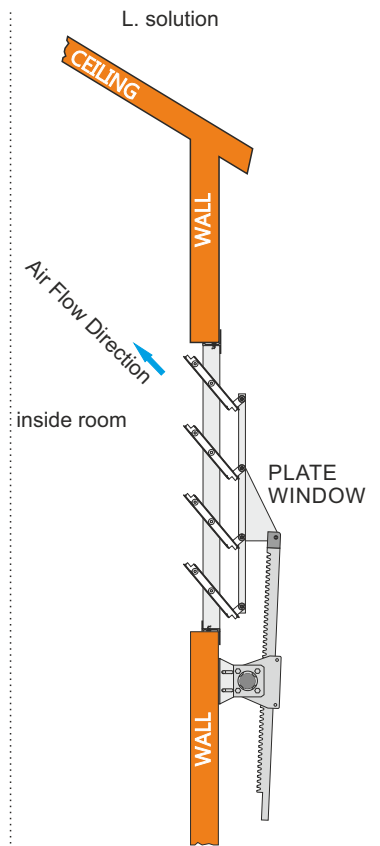
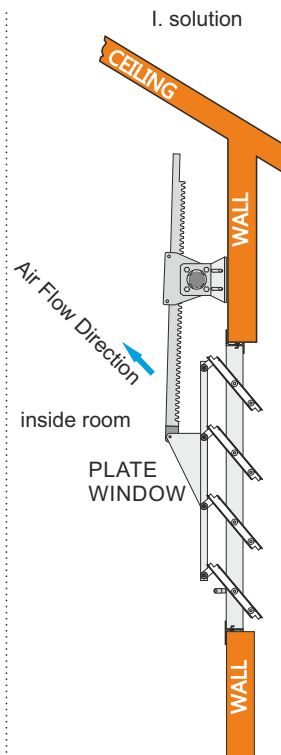
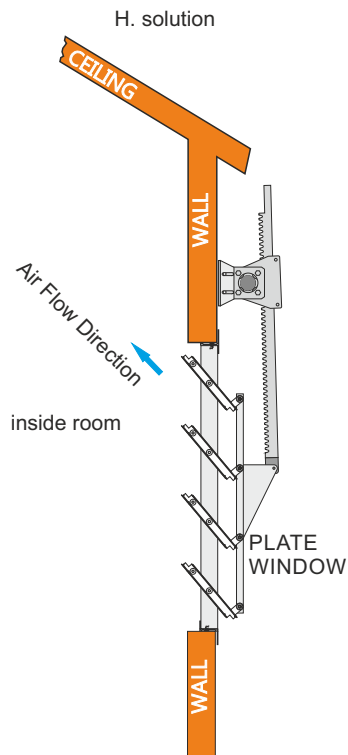
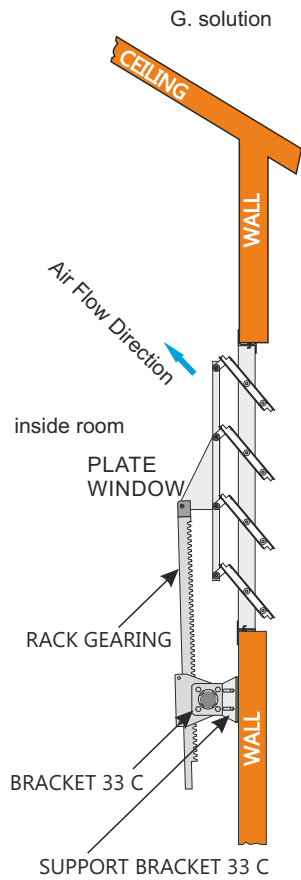


WASISTAS FULCRUM POSITIONING SOLUTIONS

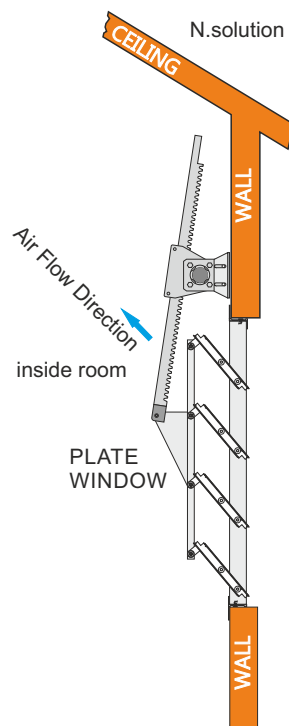
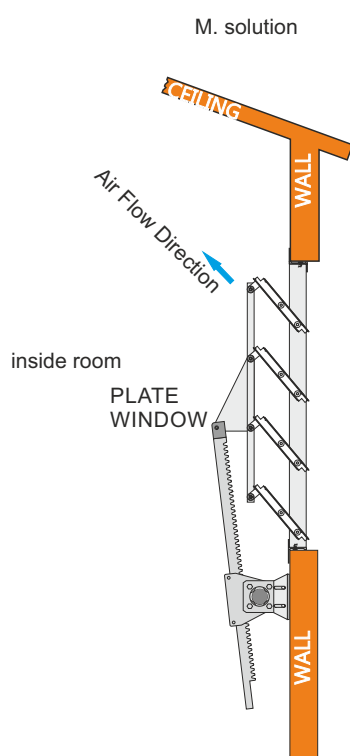


AUTOMATION WITH RACK

CENTRAL FULCRUM POSITIONING SOLUTIONS



WASISTAS FULCRUM POSITIONING SOLUTIONS



ARTICLES AND ACCESSORIES

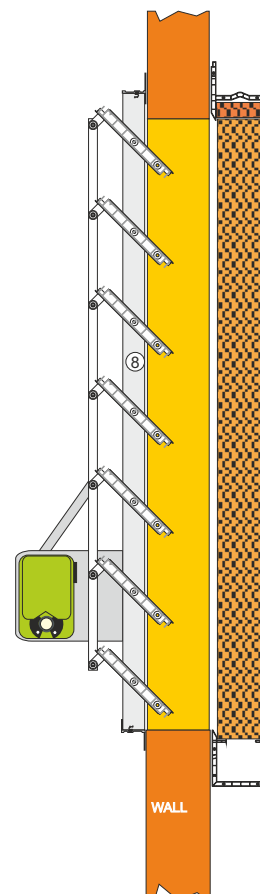
 ⑧	WINDOW... BG (Vedi misure a pag.1)	This article includes: pvc or aluminium profile uprights with hinged slat holders connected by nylon or aluminium rods. Shockproof honeycomb pvc slats. Upper and lower aluminium section bars with gasket. Handles and screws required for handling and assembly.
	MASTER FP....	Window control unit with one, two or three zones depending on the model. (see price list). Controls REDUCTION GEAR geared motors with or without potentiometer.
 ⑤	R.G.3000	Three-phase or single-phase gearmotor with adjustable limit switches without potentiometer or with potentiometer (P series), including wall mounting bracket.
 ⑥	JOINT 33	Shaft coupling (SHAFT 33 P) to geared motor.
 ⑨	SHAFT 33 P	Rotating galvanised shaft with pinion for connection to the geared motor via (JOINT 33)
 ③	SHAFT 33	Galvanised rotating shaft connected to the gearmotor, 6m long and drilled at both ends for joining to subsequent shafts via SHAFT 33 JOINT.
	SHAFT 33 joint	SHAFT connecting joint 33
 ②	BRACKET 33	Support bracket with shaft bearing (SHAFT 33)
 ⑦	SUPPORT BRACKET 33	BRACKET 33. wall-mounted support bracket
	BRACKET 33 C	Short support bracket with shaft bearing (SHAFT 33)
	SUPPORT BRACKET 33 C	BRACKET 33 C wall-mounted support bracket
 ④	LEVER COLLAR 15	Stainless steel lever with fully threaded collar for fixing on the SHAFT shaft 33
	LEVER COLLAR 30	Stainless steel lever with fully threaded collar for fixing on the SHAFT shaft 33
 ①	LEVER TO CUT SIZE	Aluminium connecting lever between LEVER COLLAR and window L=500mm to be cut to size according to the position of the shaft according to the positioning of the SHAFT shaft 33
	PLATE WINDOW	Stainless steel plate anchored to window for automation
	RACK GEARING	Gear rack with toothed rod of various lengths + input + cap + compensator
	BAT LAT	Pair of anodised aluminium L-shaped side stops, suitable for framing side openings in the wall. in the wall
	GASKET	Optional adhesive seal between the slats

AUTOMATION WITH SERVOMOTORS

For windows up to 2 meters long, a servomotor is used, positioned in the central upright (picture 3). For windows with length included between 2 and 5 meters, a JOV... servomotor is used; through SHAFT 22, this servomotor transmits the rotation for the opening/closing to the slat sectors that are farther away (picture 1).



Example of wall section with WINDOW 7 BG with COOLING panel on the outside








Detail of servomotor JOV.24V. mounted on window upright



WINDOW 7 BG with 24Vac servomotor



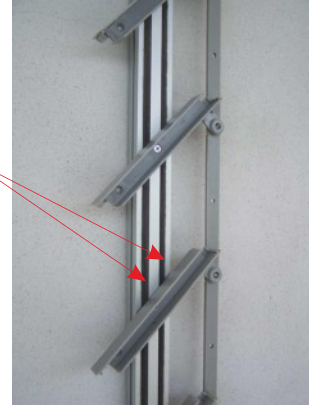
ARTICLES AND ACCESSORIES

 ⑨	JOV...	Servomotors 220V.or 24V. With limit switches. With or without signal position.
 ⑩	BRACKET JOV	Servomotors 220V.or 24V. With limit switches. With or without signal position.
 ⑪	BRACKET 22	Stainless steel support bracket with shaft bearing (SHAFT 22).
 ⑫	SHAFT 22	Rotating zinc-plated shaft connected to the servomotor.
 ⑬	LEVER COLLAR 15/22	Stainless steel collar lever for the opening/closing of window secured to the shaft (SHAFT 22).

WINDOW 15



Double seal brush between upright and plateholder



TECHNICAL DATA

10mm, anti UV , alveolar polycarbonate plates

In the plates' border there is a particular aluminum outline running lengthwise to make the plate itself stronger and to seal the plates hermetically (see pic.1, pag.9)

Plates-holders pivot on side uprights, rectangular shaped, made in PVC or aluminum.

Uprights joined together by crossbar made in anodized aluminum

Plates-holders are linked between themselves through a nylon connecting rod

CENTRAL FULCRUM MODEL

WINDOW 15 ...BG (aluminum crossbars + gasket)

WINDOW 15...G (aluminum "L" shape crossbar + gasket)

WINDOW 15... (aluminum crossbar no gasket)

WASISTAS MODEL

WINDOW 15 ...BGW (aluminum crossbars + gasket)

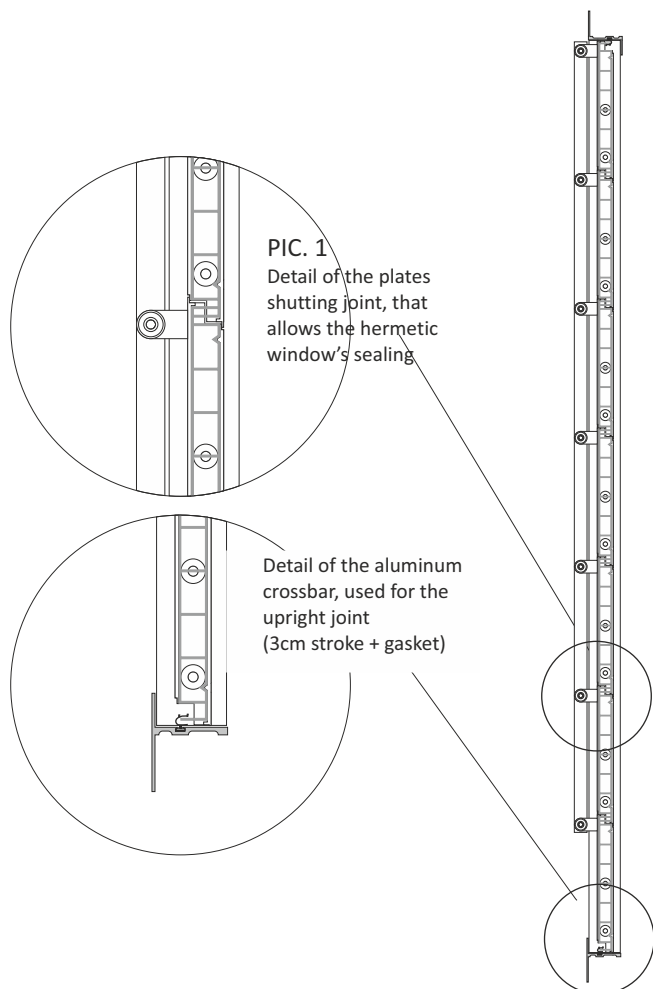
WINDOW 15...GW (aluminum "L" shape crossbar + gasket)

WINDOW 15...W (aluminum crossbar no gasket)

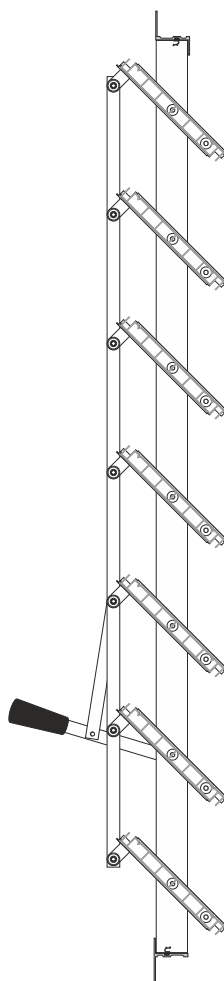
MODEL	N° OF PLATES	WINDOW's HEIGHT (cm)
WINDOW 15/1 BG	1	18
WINDOW 15/2 BG	2	33
WINDOW 15/3 BG	3	48
WINDOW 15/4 BG	4	63
WINDOW 15/5 BG	5	78
WINDOW 15/6 BG	6	94
WINDOW 15/7 BG	7	109
WINDOW 15/8 BG	8	124
WINDOW 15/9 BG	9	139
WINDOW 15/10 BG	10	154
WINDOW 15/11 BG	11	170
WINDOW 15/12 BG	12	184
WINDOW 15/13 BG	13	200
WINDOW 15/14 BG	14	215

OPENING

Section of closed window

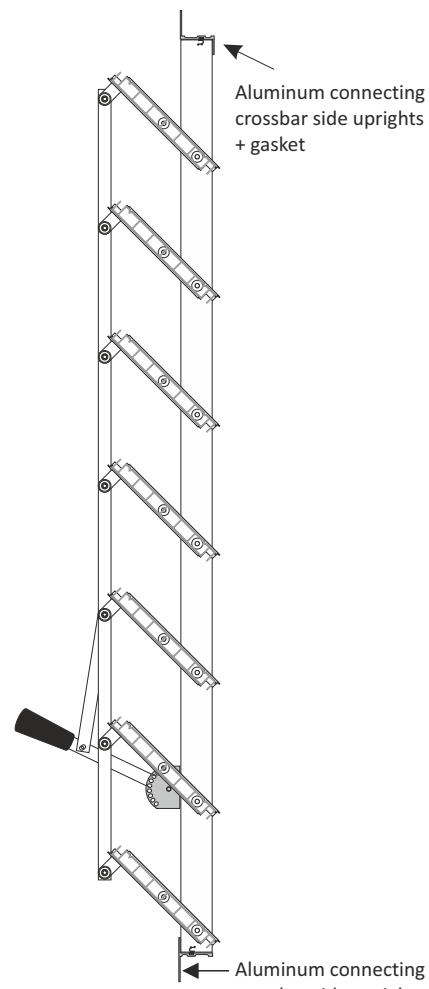


Central fulcrum window



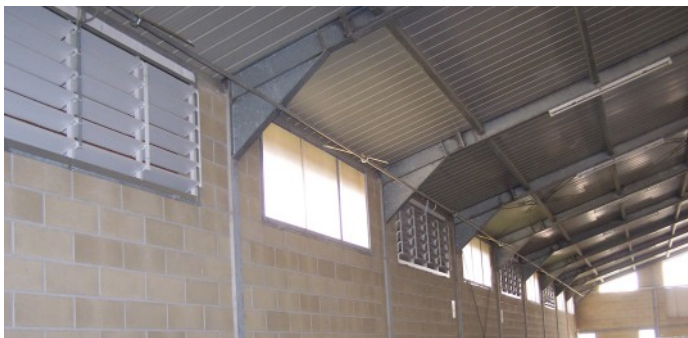
Example
WINDOW 7 BG

W = Vasistas window



Example
WINDOW 7 BGW

AUTOMATION



For installation example, accessories, servomotor automation, see «WINDOW» pag. 7-8

CONFIGURATION

WINDOW 15 / n° of plates / contact / open

Example:

WINDOW / n° of plates / contact / opening

1	8
2	9
3	10
4	11
5	12
6	13
7	14

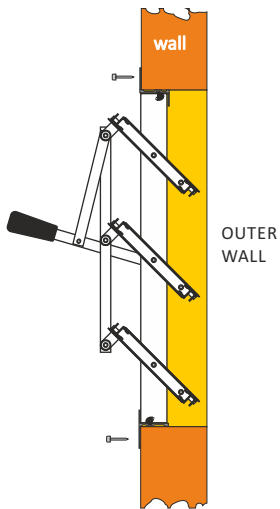
BG
G

W

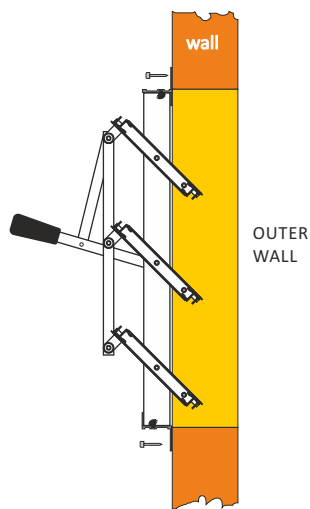
WIDOWS' length size is made according to customer request.

CONTACT

BG =Aluminum section bar with lower + upper stroke of 3 cm+ gasket

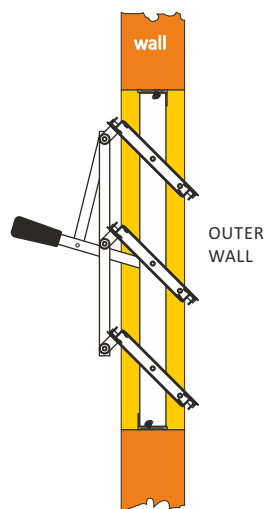


Example 1
WINDOW 3 BG



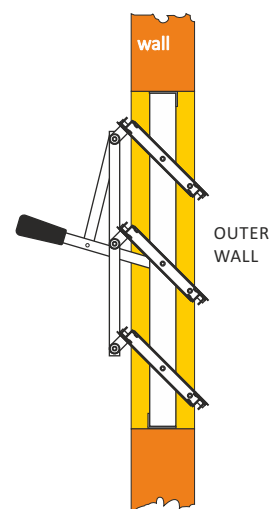
Example 2
WINDOW 3 BG

G =aluminum section bar, "L" shape + gasket



Example 2
WINDOW 3G

aluminum section bar, "L" shape, no gasket

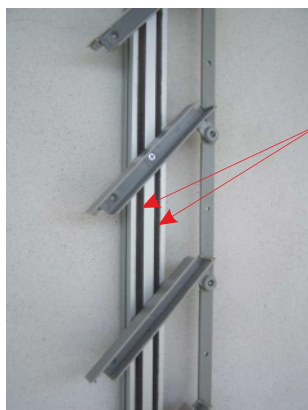


Example 2
WINDOW 3

The most commonly used methods for windows opening/closing are:

- ⑩ Manually using a handle for all the plates in the window height-wise, or by groups of plates each group with its own handle.
- ⑩ Automatically by means of control units that control reduction gears rotating a shaft equipped with levers that operate the opening/closing of the windows. This shaft features a maximum length of approximately 25 m per reduction gear side.
- ⑩ Automatically by means of control units that control small servomotors. Each servomotor can operate up to 6/7 m² of window.

WINDOW 30



Double seal brush between upright and plateholder



TECHNICAL DATA

10mm, anti UV , alveolar polycarbonate plates

In the plates' border there is a particular aluminum outline running lengthwise to make the plate itself stronger and to seal the plates hermetically (see pic.1)

Plates-holders pivot on side uprights, rectangular shaped, made in PVC or aluminum.

Uprights joined together by crossbar made in anodized aluminum

Plates-holders are linked between themselves through a nylon connecting rod

CENTRAL FULCRUM MODEL

WINDOW 30...BG (aluminum crossbars + gasket)

WINDOW 30...G (aluminum "L" shape crossbar + gasket)

WINDOW 30... (aluminum crossbar no gasket)

CONFIGURATION

WINDOW 30 / n° of plates / contact / open

Example:

WINDOW 30 / n° of plates / contact / opening

1 6
2 7
3 8
4 9
5 10

BG
G

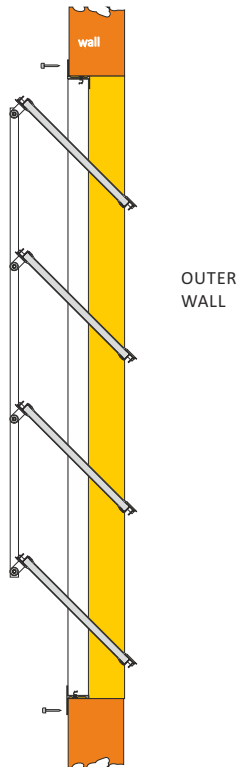
W

MODEL	N° OF PLATES	WINDOW'S HEIGHT (cm)
WINDOW 30/1 BG	1	30
WINDOW 30/2 BG	2	58
WINDOW 30/3 BG	3	86
WINDOW 30/4 BG	4	113
WINDOW 30/5 BG	5	141
WINDOW 30/6 BG	6	169
WINDOW 30/7 BG	7	197
WINDOW 30/8 BG	8	224
WINDOW 30/9 BG	9	251
WINDOW 30/10 BG	10	279

WIDOWS' length size is made according to customer request.

CONTACT

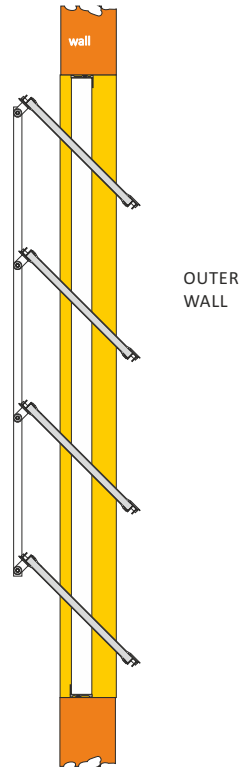
BG = Aluminum crossbar + 3 cm borders + gasket ⁽¹⁾



Example
WINDOW30/4 BG

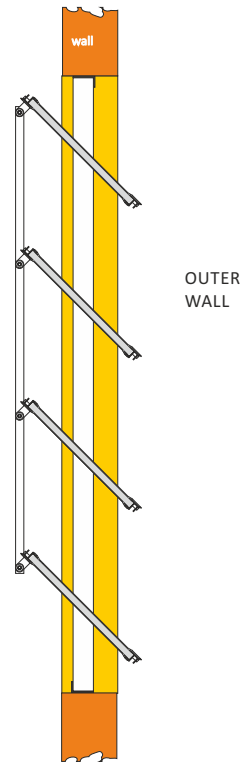
(1) SAME VERSIONS FOR THE MODELS
WINDOW30/.../W E WINDOW30/.../1W

G = Aluminum crossbar "L" shape + gasket ⁽¹⁾



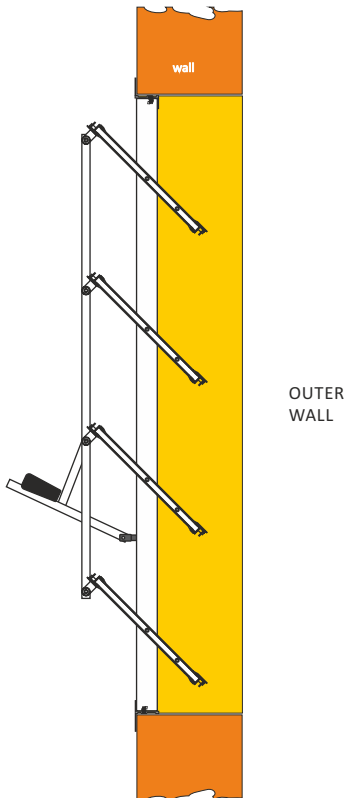
Example
WINDOW30/4 G

Aluminum crossbar "L" shape + gasket ⁽¹⁾

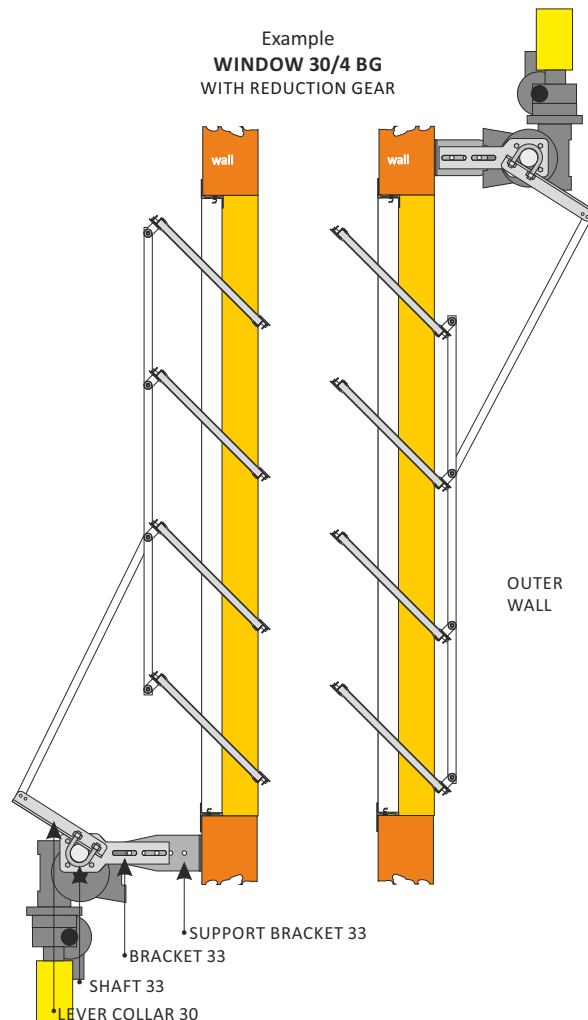


Example
WINDOW30/4

Example
WINDOW 30/4 BG
MANUAL CONTROL



Example
WINDOW 30/4 BG
WITH REDUCTION GEAR



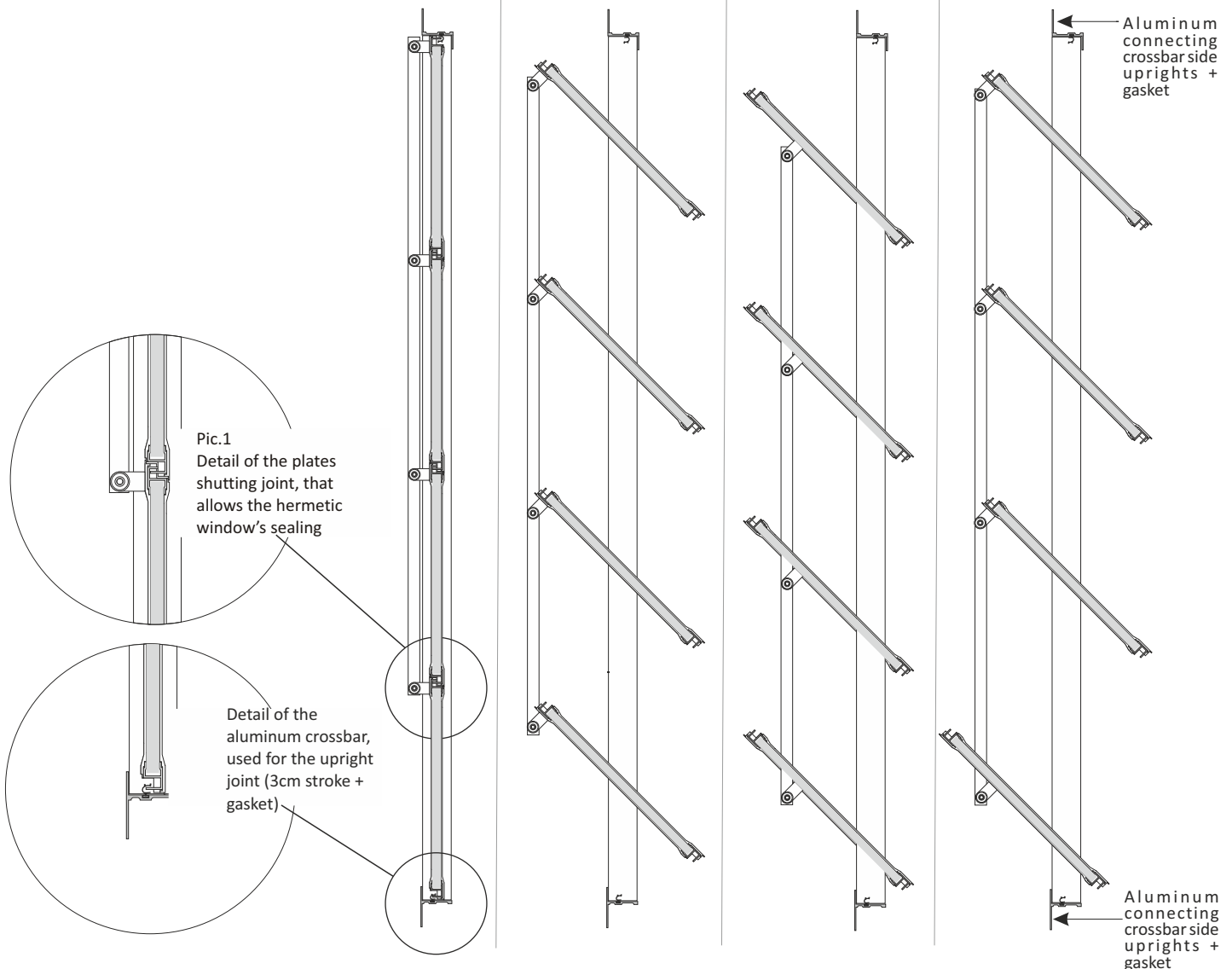
OPENING

Section of closed window

Central fulcrum window

W =Vasistas window

1w =Central fulcrum window, first plate vasistas opening



AUTOMATION WITH GEARMOTORS



The most commonly used window movements are as follows:

- ⑩ Manually with one handle for all the slats present in the window height, or, in groups of slats each with its own handle
- ⑩ Automatically by means of control units that control gearmotors that rotate a shaft with levers that operate the opening/closing of the windows. The maximum length of the shaft is approximately 25m on each side of the gearmotor.
- ⑩ Automatically through control units that control small servomotors. Each servomotor is able to operate up to 6/7 m2 of fenestration.



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