DITEC™

ENTREMATIC

CE VALOR

IP1950EN - rev. 2010-08-02

EN

Installation and maintenance manual for sliding door

(Original instructions)

ICIM
ISO 9001
Cert. n° 0957

DITEC S.p.A.
Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY
Tel. +39 02 963911 - Fax +39 02 9650314
www.ditec.it - ditec@ditecva.com

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1. GENERAL SAFETY PRECAUTIONS

This installation manual is intended for professionally competent personnel only.
Before installing the product, carefully read the instructions.
Bad installation could be hazardous.
The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.
Before installing the product, make sure it is in perfect condition.
Do not install the product in an explosive environment and atmosphere: gas or inflammable fumes are a serious hazard risk.
Before installing the motors, make all structural changes relating to safety clearances and protection or segregation of all areas where there is risk of being crushed, cut or dragged, and danger areas in general.
Make sure the existing structure is up to standard in terms of strength and stability.
The motor manufacturer is not responsible for failure to use Good Working Methods in building the frames to be motorised or for any deformation occurring during use.
The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account: applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorised door.
Apply hazard area notices required by applicable regulations.
Each installation must clearly show the identification details of the motorised door.

2. DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

(Directive 2006/42/EC, Annex II-B)
The manufacturer DITEC S.p.A. with headquarters in Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY

Declares that the automation for sliding doors type VALOR

- Has been constructed to be installed on a manual door to construct a machine pursuant to the directive 2006/42/EC. The manufacturer of the motorised door shall declare conformity pursuant to the directive 2006/42/EC (annex II-A), prior to the machine being put into service.
- Conforms to applicable essential safety requirements indicated in annex I, chapter 1 of the directive 2006/42/EC.
- Conforms to the Low Voltage Directive 2006/95/EC.
- Conforms to the Electromagnetic Compatibility Directive 2004/108/EC.
- Technical documentation conforms to annex VII-B to the directive 2006/42/EC.
- The technical file is managed by Renato Calza with offices in Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY.
- A copy of technical documentation will be provided to national competent authorities, following a suitably justified request.

Caronno Pertusella, 29-12-2009

Silvano Angaroni
(Managing Director)

2.1 Machinery Directive

Pursuant to Machinery Directive (2006/42/CE) the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical file which must contain the documents indicated in Annex V of the Machinery Directive;
  (The technical file must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door);
- draft the EC declaration of conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the CE marking on the power operated door in accordance with point 1.7.3 of Annex I of the Machinery Directive.

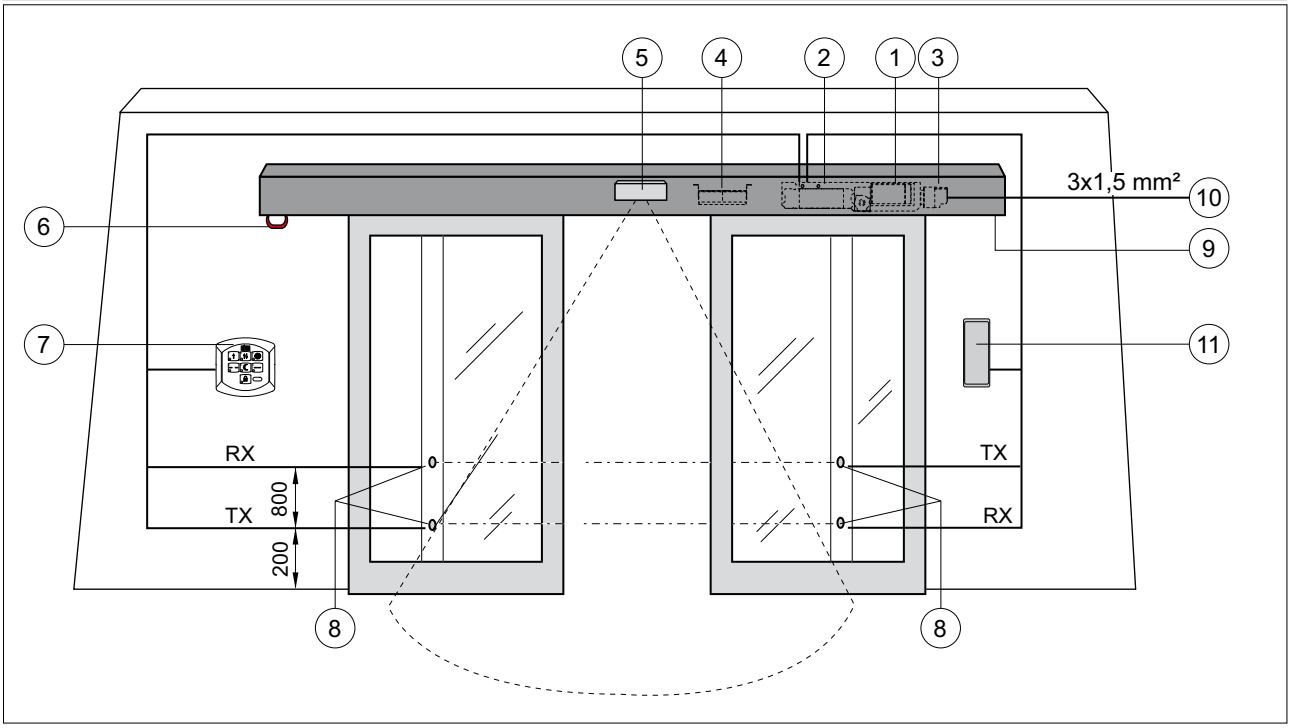
3. TECHNICAL DATA

	VALOR L - H	VALOR P	VALOR B	VALOR N	VALOR T
Power supply	230 V~ / 50-60 Hz				
Absorption	1 A (1,6 A with weight >200 kg)				
Accessories power supply	24 V= / 0,5 A max				
Max speed 1 wing	0,8 m/s				
Max speed 2 wings	1,6 m/s				
Intermittence	S3 = 100%	S3 = 100%	S3 = 100%	S3 = 100%	S3 = 100%
Service life	5 - HEAVY DUTY			6 - CONTINUOUS	
Max. door run	5000 mm				
Max. door weight 1 wing	100 kg	120 kg	120 kg	120 kg	200 kg
Max. door weight 2 wings	180 kg	220 kg	240 kg	240 kg	260 kg
Weight (reinforced wheels) 1 wing	/	/	150 kg	150 kg	/
Weight (reinforced wheels) 2 wings	/	/	300 kg	300 kg	/
Temperature	-20°C / +55°C (Batteries: -10°C/+50°C)				
Degree of protection	IP20				

3.1 Application

- Performance characteristics are to be understood as referring to the recommended weight (approx. 2/3 of maximum permissible weight). A reduction in performance is to be expected when the access is made to operate at the maximum permissible weight.
- Service class, running times, and the number of consecutive cycles are to be taken as merely indicative having been statistically determined under average operating conditions, and are therefore not necessarily applicable to specific conditions of use.
- The actual performance characteristics of each automatic access may be affected by independent variables such as friction, balancing and environmental factors, all of which may substantially alter the performance characteristics of the automatic access or curtail its working life or parts thereof (including the automatic devices themselves). When setting up, specific local conditions must be duly borne in mind and the installation adapted accordingly for ensuring maximum durability and trouble-free operation.

4. STANDARD INSTALLATION



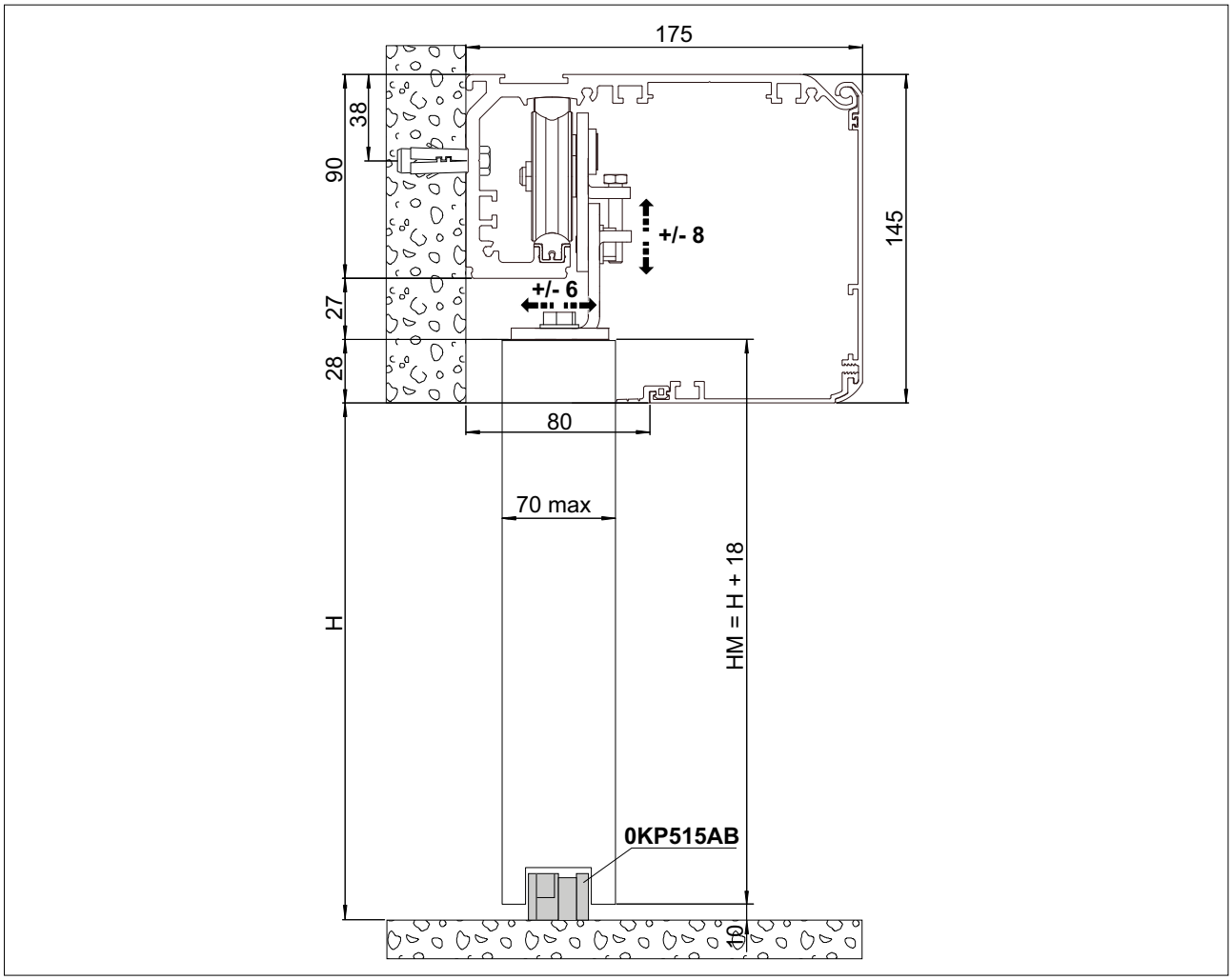
REF.	CODE	DESCRIPTION
1		Drive unit
2	EL20	Control panel
3	AL2	Transformer
4*	VALABE VALABC	Emergency batteries No-break batteries
5*		Open sensor
6*	VALSB LOKSBM	Release handle
7*	COME	Functions selector switch
8	CELPR	Photocells
9*	MD1	Accessory and supplementary functions connection module
10		Power supply
11*	PFP1/PFP2	Open button

* Optional Code

NOTE: the given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

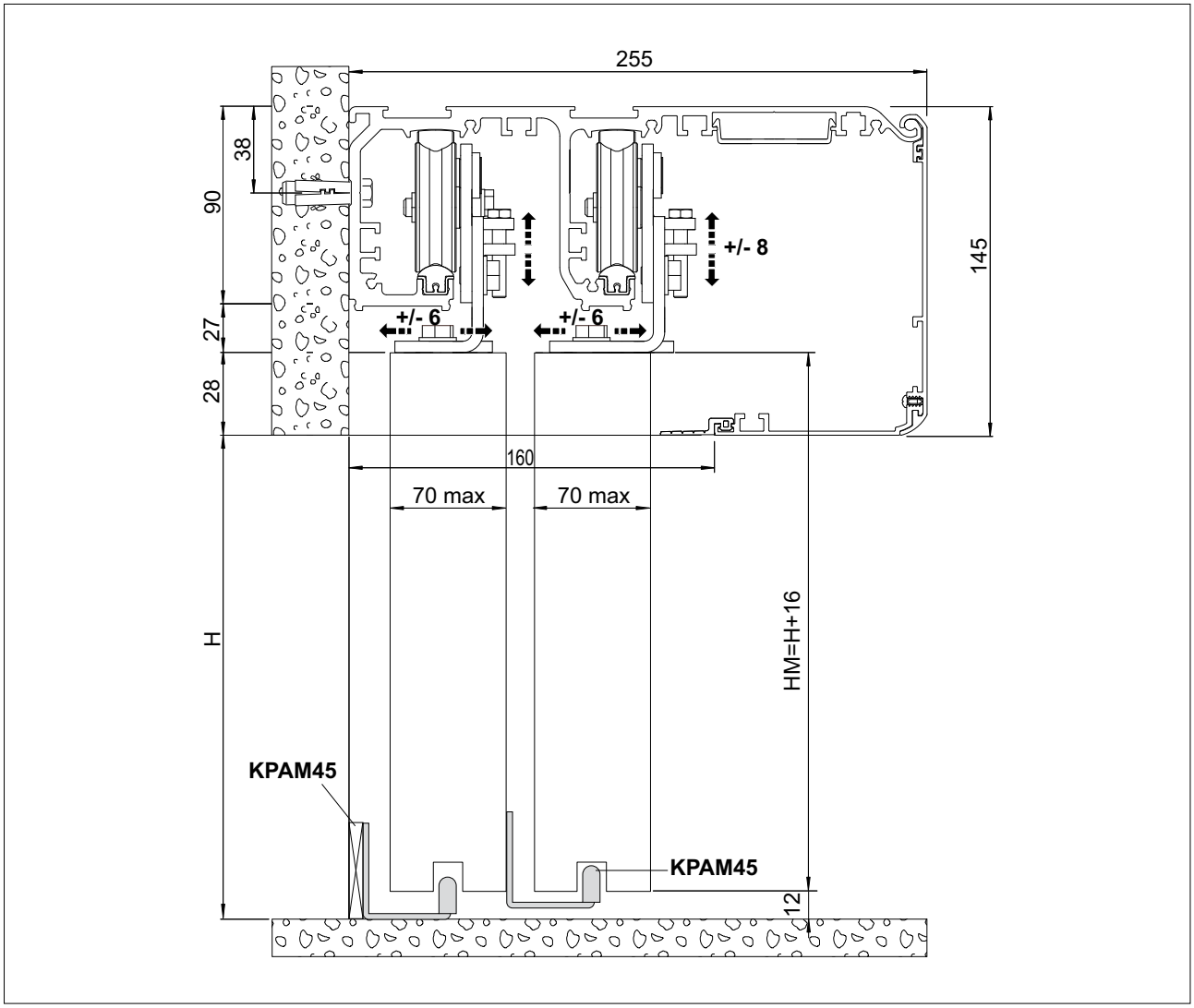
5. INSTALLATION OF THE AUTOMATION

5.1 VALOR box fastening



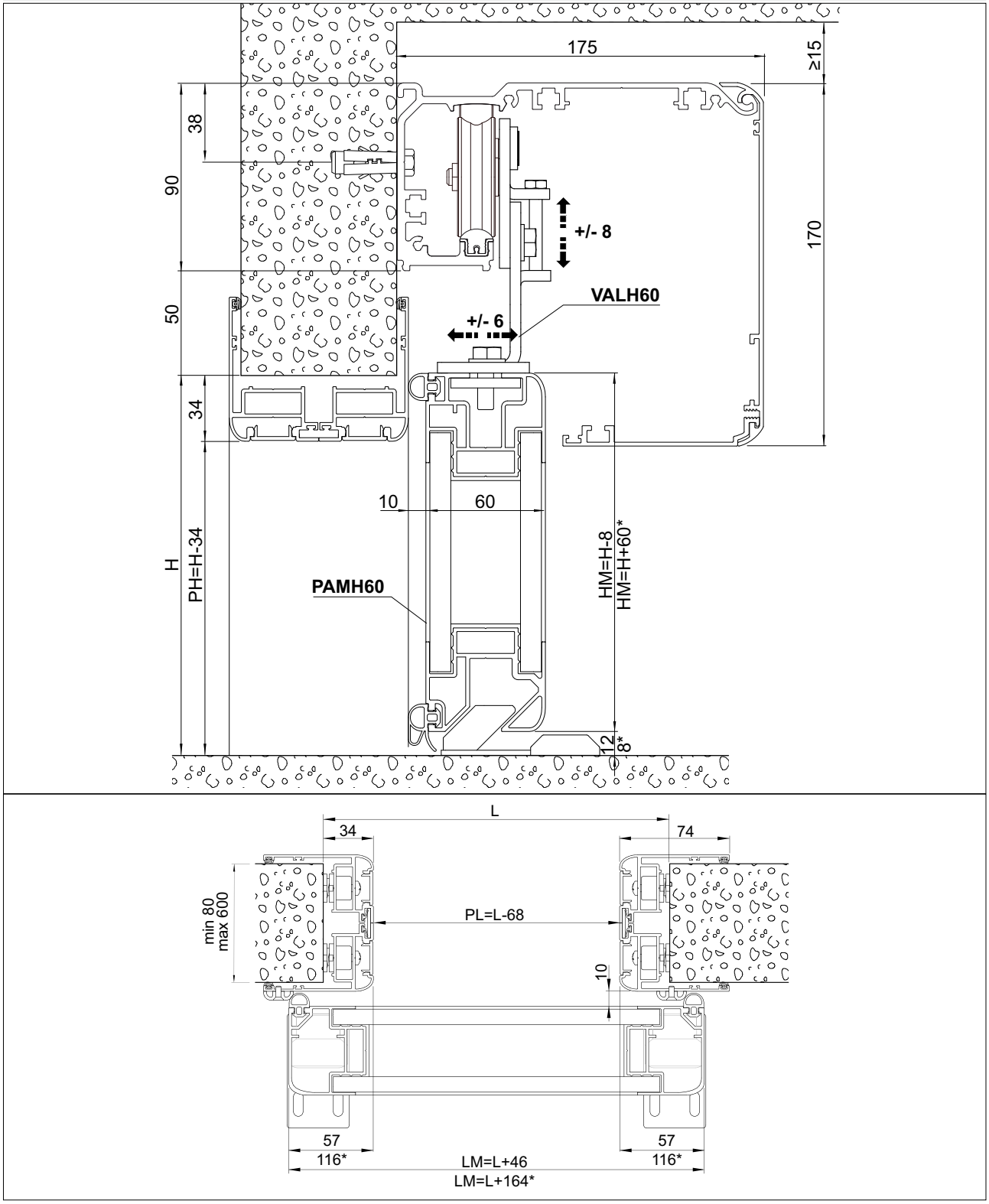
Unless otherwise specified, all measurements are expressed in millimetres (mm).
The VALOR automation wall fixing measurements are illustrated in the diagram, considering that the door wing profiles are not of our production.
If the door wings are made with DITEC profiles of the following series: PAM16, PAM23, PAM45, refer to the measurements in the related manuals.
WARNING: if the door wings are fitted with a break-out device, use the carriages with brackets with 3 fixing points.
Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.
Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.
WARNING: The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

5.2 VALOR T box fastening



The VALOR T automation wall fixing measurements are illustrated in the diagram, considering that the door wing profiles are not of our production.
If the door wings are made with DITEC profiles of the following series: PAM16, PAM23, PAM45, refer to the measurements in the related manuals.
Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.
Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.
WARNING: The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

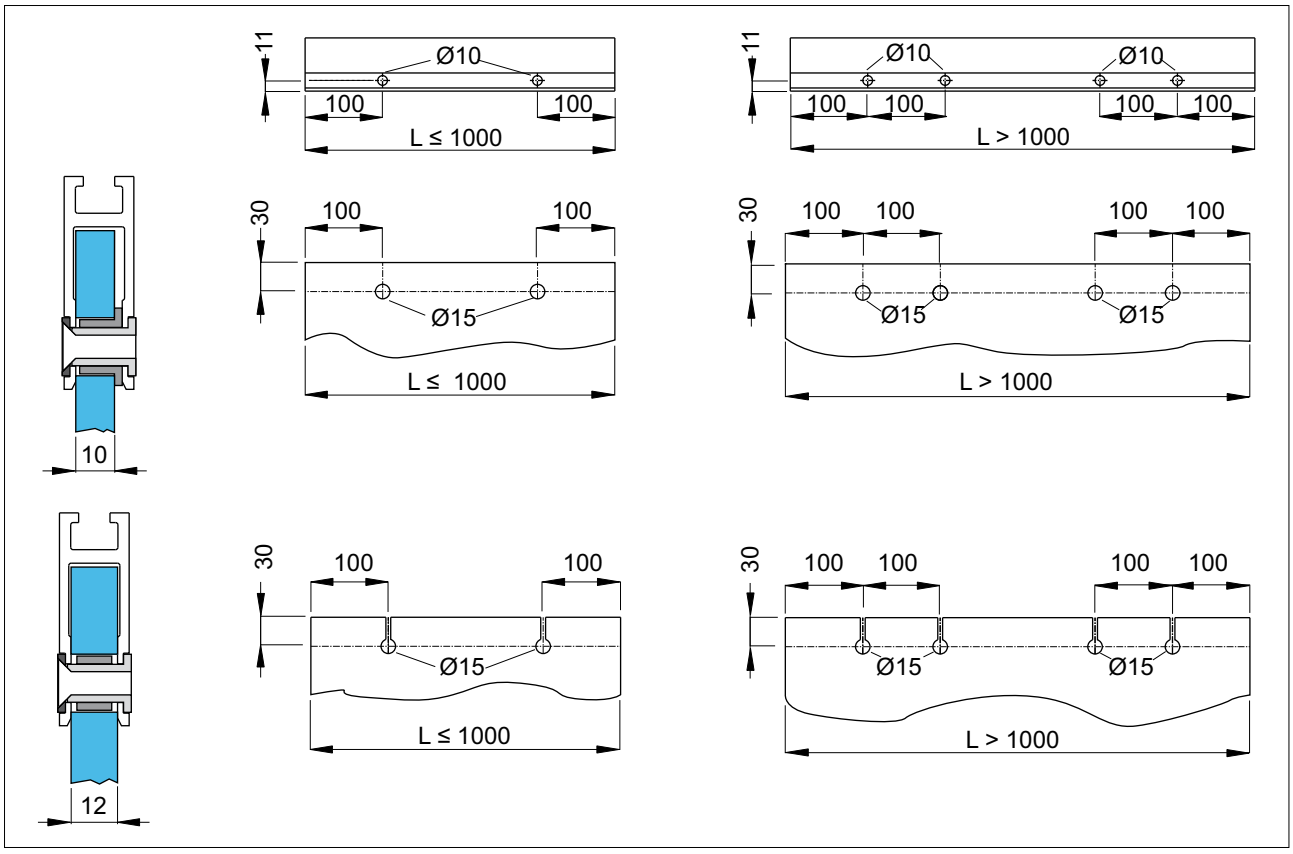
5.3 VALOR H box fastening



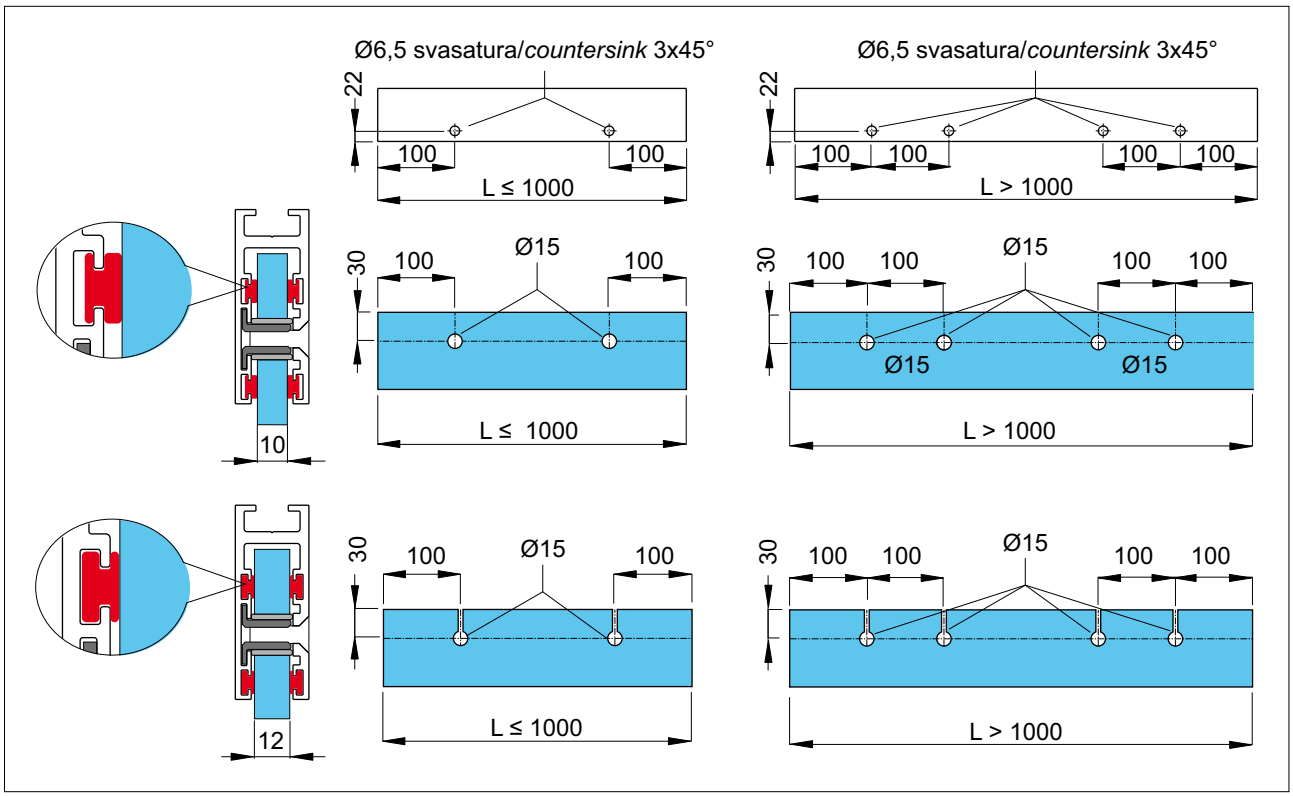
Unless otherwise specified, all measurements are expressed in millimetres (mm).
The figure shows the measurements for wall mounting the VALOR H automation considering that the door wings are made of DITEC PAMH60 series profiles.
If the PAMH60 door wing has lead-shielding (e.g. radiology department) refer to the measurements marked [*].
Fix the box with M6 Ø12 steel plugs or 6MA screws. Distribute the fixing points approx. every 800 mm.
Make sure that the top surface of the box is perpendicular with the floor and not deformed lengthwise with the shape of the wall. If the wall is not straight and smooth, the box must be fixed to metal plates.
WARNING: The fastening of the box to the wall must be suitable in order to sustain the weight of the door wings.

5.4 Preparation of the glass door wing

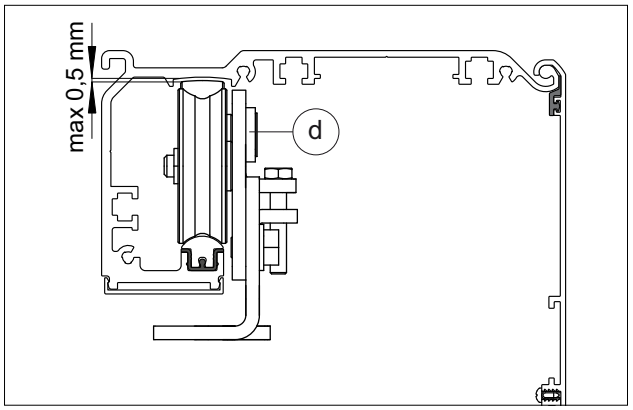
The diagram indicates the process measurements of the aluminium profile AC1356 and glass.
Ø10 through holes are required on the aluminium profile and Ø15 on the glass for fastening. The number of holes and related distance between centres are based on the door wing width. Silicon should ideally be used between the edge of the glass and the internal base of the profile.

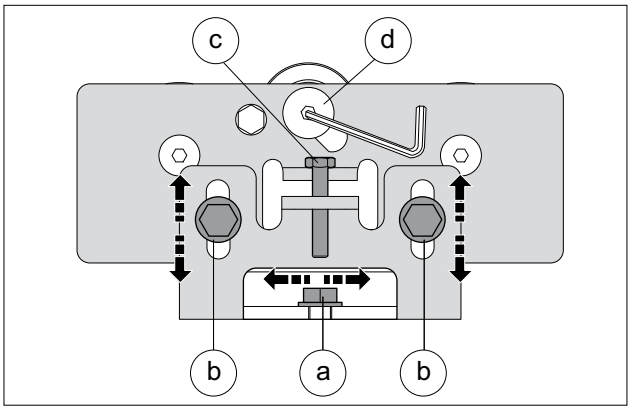


The diagram indicates the process measurements of the aluminium profile AC4255 and glass.
Ø6,5 countersink 3x45° through holes are required on the aluminium profile and Ø15 on the glass for fastening. The number of holes and related distance between centres are based on the door wing width.

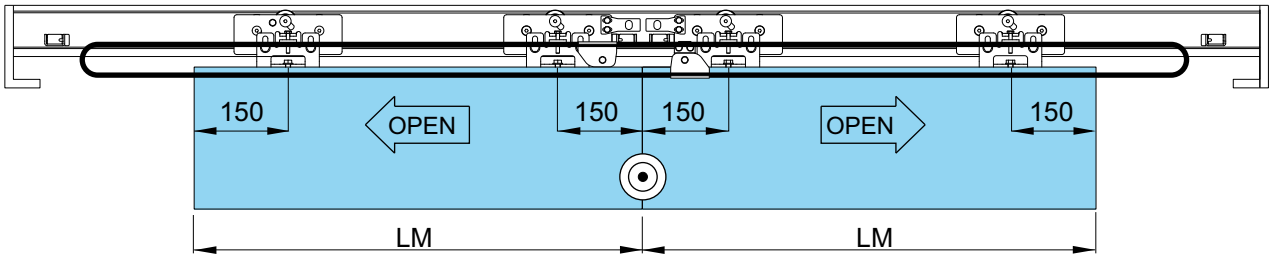


5.5 VALOR - VALOR H wings installation and adjustment

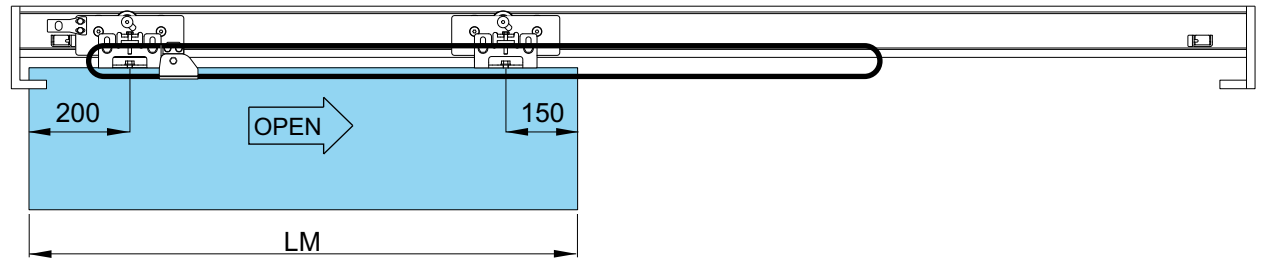




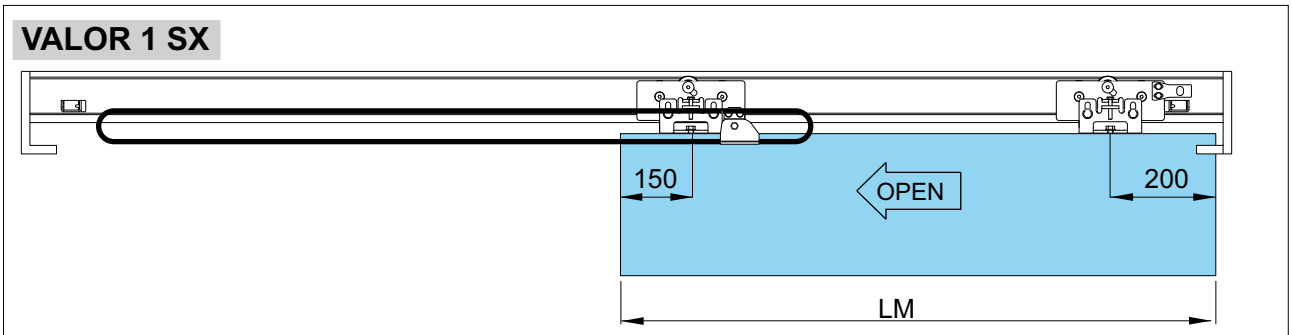
VALOR 2



VALOR 1 DX

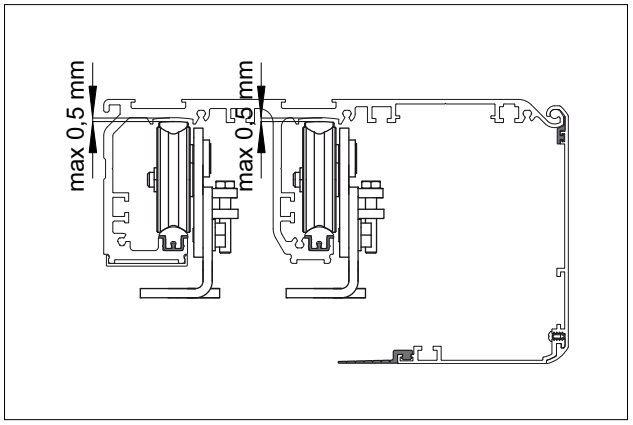


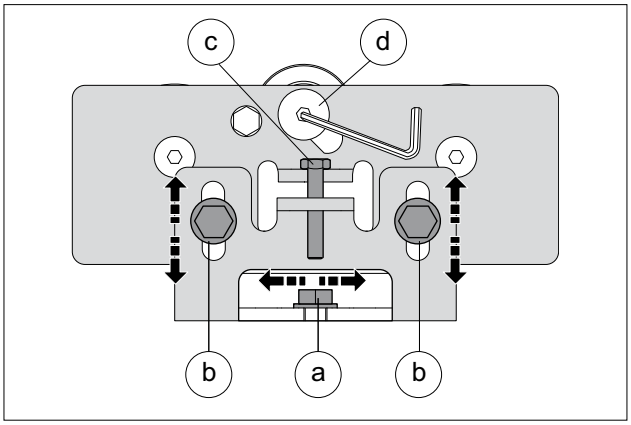
VALOR 1 SX

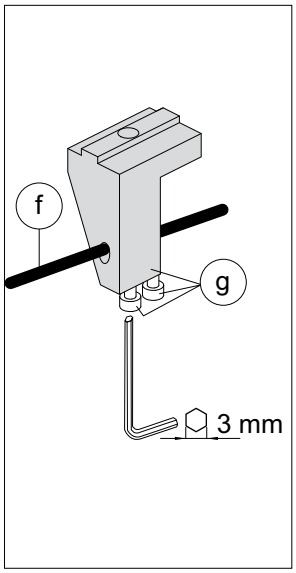


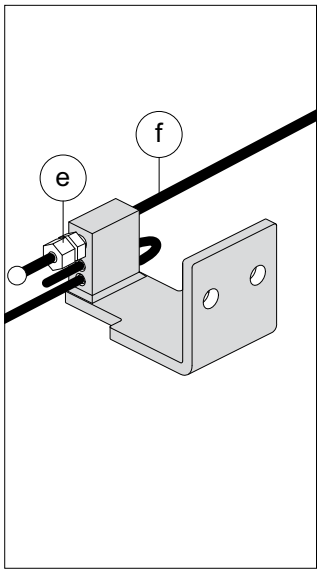
Make sure that the central wheel is adjusted [d] as illustrated in the diagram.
Fix the door wing to the carriage with screws [a].
The outer wheel of the carriage must not protrude beyond the dimension of the door wing.
Adjust the horizontal position of the door wing in accordance with the measurements indicated in diagram VALOR 2 for 2 door wing automations, VALOR 1 RH for right-hand opening automations and VALOR 1 LH for left-hand opening automations. Secure the adjustment with screws [a].
Loosen screws [b], adjust the vertical position of the door wing by means of screw [c] and fix the adjustment with screws [b].
Check, by moving the door manually, that the movement is free and without friction and that al the wheels rest on the guide.
WARNING: Leave a gap of at least 10 mm between the glass door wings when closed to avoid contact of the glass.

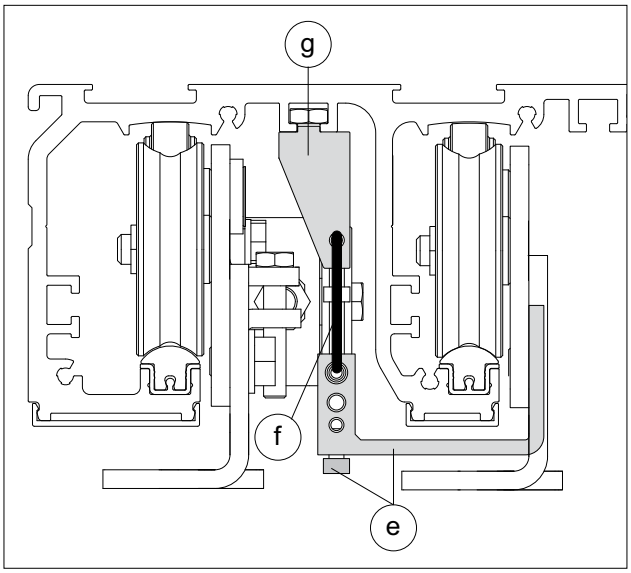
5.6 VALOR T wings installation and adjustment









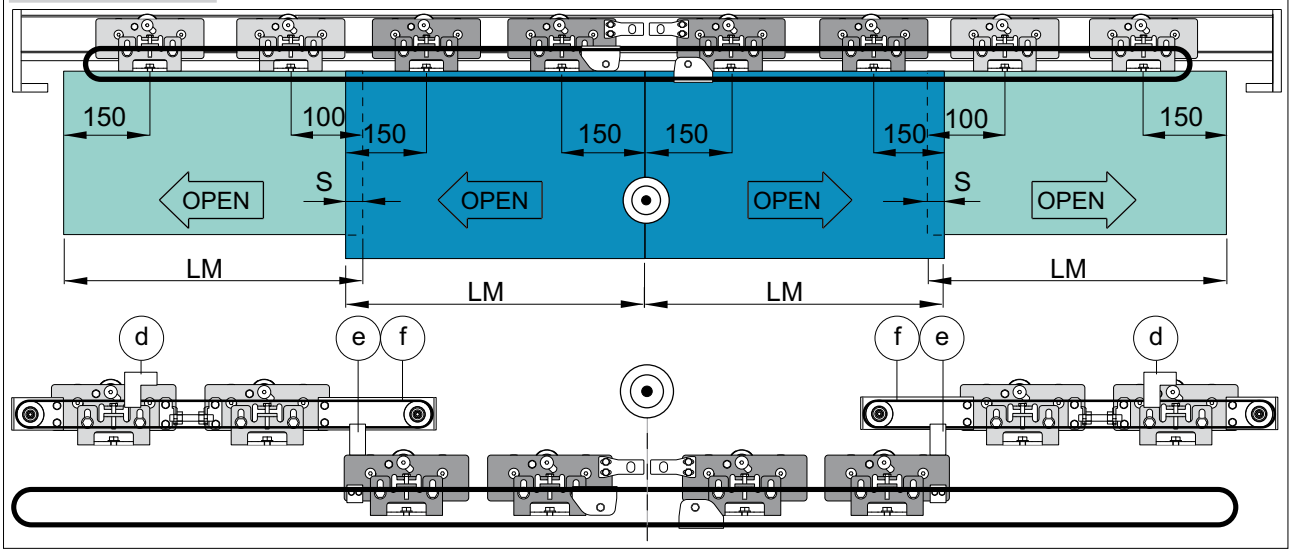


Make sure that the central wheel is adjusted [d] as illustrated in the diagram.
Fix the door wing to the carriage with screws [a].
The outer wheel of the carriage must not protrude beyond the dimension of the door wing.
Adjust the horizontal position of the door wing in accordance with the measurements indicated in diagram VALOR 2 +2 for four door wing automations, VALOR 1 +1 RH for right-hand opening automations and VALOR 1 +1 LH for left-hand opening automations. Secure the adjustment with screws [a].
Loosen screws [b], adjust the vertical position of the door wing by means of screw [c] and fix the adjustment with screws [b].
Check, by moving the door manually, that the movement is free and without friction and that al the wheels rest on the guide.

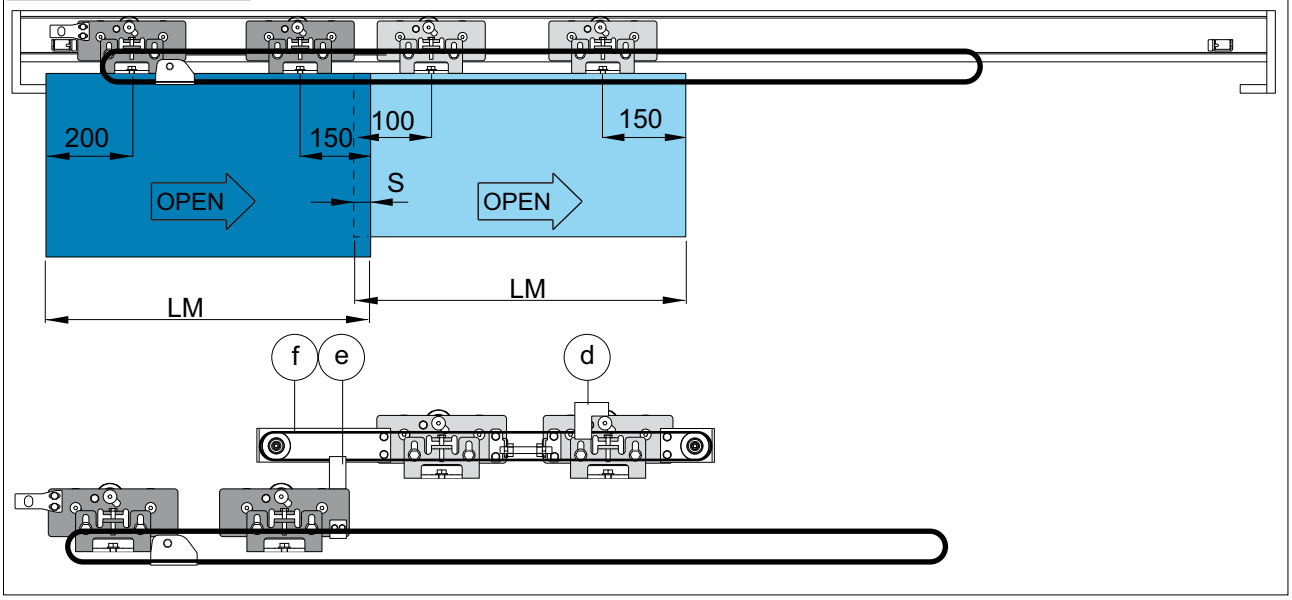
Proceed as follows to adjust the overlap of the door wings:
- Place the door in the closed position.
- Hold the external door wing in the closed position.
- Loosen [g] and move the door wing, increasing or decreasing the overlap.
- Tighten [g].

Adjust the tension of the cables by means of adjuster [e], loosening the locking nut.
Correctly tension the cable, then block it with the locking nut.

VALOR 2+2



VALOR 1+1 DX



VALOR 1+1 SX