



Alban Giacomo SpA

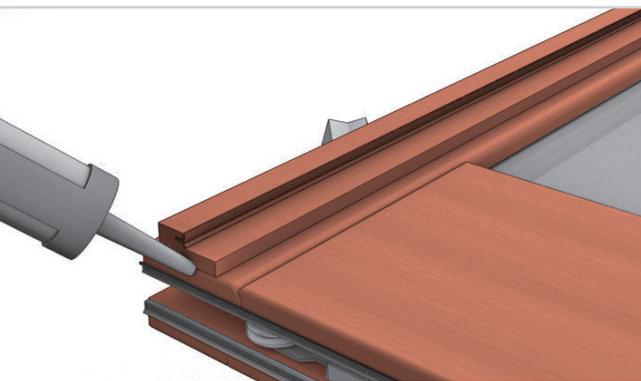
COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

INSTALLATION MANUAL

LIFT & SLIDE

Basic

- System sections 68x90 mm, 68x100 mm and 68x110 mm.
- Sash with only one bottom rail with the possibility for a baseboard.
- Vertical-bottom outside gasket: balloon gasket with vulcanized EPDM corner.
- Inside face EPDM gasket to cover the milled section.
- PVC top gasket with flap.
- Elaprene vertical gasket of the central point with fin.
- Water, air, wind, and soft body impact tests conducted with glass: 44.1/15/33.1 (minimum usable).
- Aluminium universal reduced top guide and low or high bottom track.
- 28 mm distance between the sashes.
- Central point with wooden listels.



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HOW TO USE THIS MANUAL

This manual consists of three main sections:

- normative references;
- assembly procedures;
- final C € pre-marking checklist

It is divided in chapters which include icons to make it easier to understand the operations and provide reminders on safety regulatory requirements. The following icons are used in this manual:



Eye protection must be worn



Face protection must be worn



Protective gloves must be worn



Respiratory protection must be worn



Safety helmet must be worn



Protective footwear must be worn (to wear during assembly)



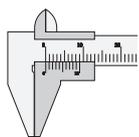
Beware, overhead load



Beware, moving loads



Warning



Accuracy in measurements



Reference to Technical Manual

Moreover, the following abbreviations are use throughout this manual:

MET	Outside frame width
HET	Outside frame height
LB	Sliding Sash Width
SMT	Door frame jamb thickness
L	Cutting length
LBF	Fixed sash width
STST	Frame head thickness 45/56 mm

NORMATIVE REFERENCES

COUNCIL DIRECTIVE 89/106/EEC

Council Directive (CPD) 89/106/EEC of 21 December 1988 on the approximation of laws, regulations, and administrative provisions of the Member States relating to construction products.

The CPD Directive aims to ensure the user that construction products placed on the market are produced or incorporated within construction works (buildings and civil engineering construction works) comply with several requirements considered as essential for safety, health, and other requirements by collective users.

This directive specifies that the manufacturer is required to declare that its products meet the requirements of harmonized specifications (harmonized standards or technical approvals) for the duration of the production.

Such compliance, in case of products of vital importance to maintain the essential requirements, must also be certified by a recognised third party body.

HARMONIZED REGULATION EN 14351-1

The European regulation EN 14351-1 C€ for marked doors and windows has been prepared by the CEN (European Committee for Standardization).

C€ Marking on doors and windows became compulsory on 01/02/2010.

ASSEMBLY AND INSTALLATION PROCESS CONTROL – FOR CASCADING ITT

In order to comply with the requirements of product regulation EN 14351-1, AGB has prepared this manual to ensure that all phases of assembly are exactly the same as those used to pass the type tests conducted in the test laboratory. Furthermore, the final checklist facsimile enables the assembly worker to verify if the door or window has been properly assembled on site. In this way the declaration of conformity can then be prepared and delivered to the Customer together with said checklist.

This procedure combined with the timely execution of the installation operations included in this manual and in the Technical Manual are essential in order to benefit from the CASCADING procedure required for subsequent C€ marking of the door or window.

CE DECLARATION OF CONFORMITY

The CE declaration of conformity which authorizes CE marking on products must include:

- name and address of the manufacturer and production site;
- description of the product (type, identification, use,...) and a copy of the information accompanying the CE marking;
- provisions to which the product conforms: e.g. water, air, and wind tightness (attachment ZA of UNI EN 14351-1);
- particular conditions applicable to the use of the product (e.g. use in special conditions);
- name and address (or identification number) of the notified laboratory;
- name and position held by the person empowered to sign the declaration in place of the manufacturer.

CE MARKING AND LABELING

The producer or its authorised representative in the European Community is responsible for affixing CE marking.

The data plate includes the following information:

- name, address, registered trademark of the producer;
- reference to the product standard;
- last two digits of the year in which the standard was applied;
- product description.

An example data plate is provided below:



The CE marking and the accompanying information must be affixed in a visible, legible, indelible, and immovable manner.

A label will be prepared to affix, for example, in the following location:



CUSTOMER DOCUMENTATION

The window and door assembler must deliver a series of documents to the customer:

- Declaration of conformity of supplied products;
- Instructions on the use and maintenance of the products;
- CE Marking.

LEGISLATIVE DECREE 9 APRIL 2008, N. 81

Implementation of article 1 of law n. 123 of 3 August 2007, concerning the protection of health and the safety in the work place.

AGB would like to remind you that the on-site assembly of doors and windows must be performed in compliance with the provisions of Legislative Decree 81/2008, the consolidation act on workplace safety and in particular construction site safety.

Note should also be taken of the integrated text concerning the implementation of Council Directive 92/57/EEC, known as the integrated text of Legislative Decree 494/96, 528/99 and 276/03, on the implementation of minimum safety and health requirements at temporary or mobile construction sites. Considering the type of product and work involved for installing the door and window, you should pay special attention to the following provisions:

PERSONAL PROTECTIVE EQUIPMENT (PPE):

... *Omissis*

Article 75

PPE shall be used where risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

SITUATIONS DURING ASSEMBLY:

- cutting wooden jambs and rail
- cutting aluminium components
- cutting fibreglass and/or aluminium threshold
- drilling in general
- tightening screws with electric tools
- sealing with silicone
- sealing with foam

MANUAL HANDLING OF LOADS

... *Omissis*

Article 167

1. *The regulations included in this title shall be applied to work involving manual handling of loads that may cause cumulative disorders in workers, particularly for back injury.*

2. *For the purpose of this title:*

- a) *manual handling of loads means any transporting or supporting of a load, by one or more workers, including lifting, putting down, pushing, pulling, carrying or moving a load which, by reason of its characteristics or of unfavourable ergonomic conditions, involves a risk particularly of back injury to workers.*
- b) *cumulative trauma disorders means disorders of the neuromusculoskeletal system.*

Article 168 - Employer obligations

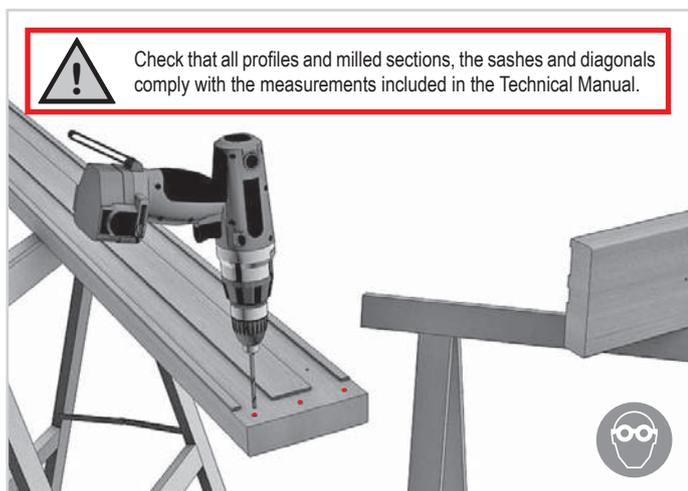
1. *The employer shall take appropriate organizational measures, or shall use the appropriate means, in particular mechanical equipment, in order to avoid the need for the manual handling of loads by workers.*

2. *Where the need for the manual handling of loads by workers cannot be avoided, the employer shall take the appropriate organizational measures, use the appropriate means or provide workers with such means in order to reduce the risk involved in the manual handling of such loads, having regard to Annex XXXIII, and in particular:*

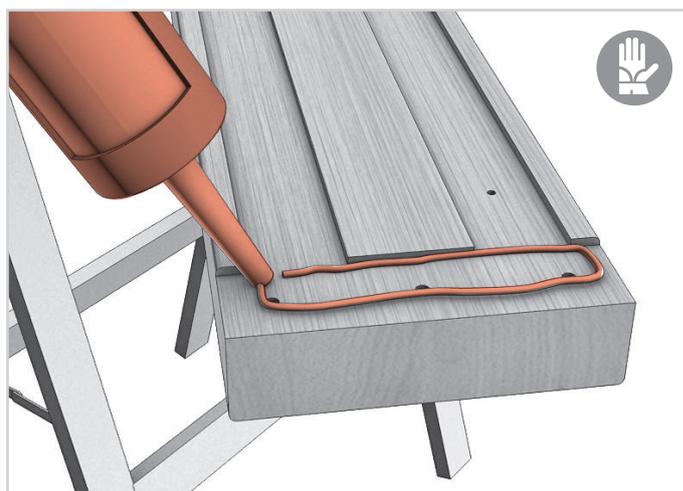
- *the employer shall organize workstations in such a way as to make such handling as safe and healthy as possible;*
- *take appropriate measures to avoid or reduce the risk particularly of back injury to workers, taking into consideration the characteristics of the working environment and the requirements of the activity, according to Annex XXXIII.*

SITUATIONS DURING ON-SITE ASSEMBLY:

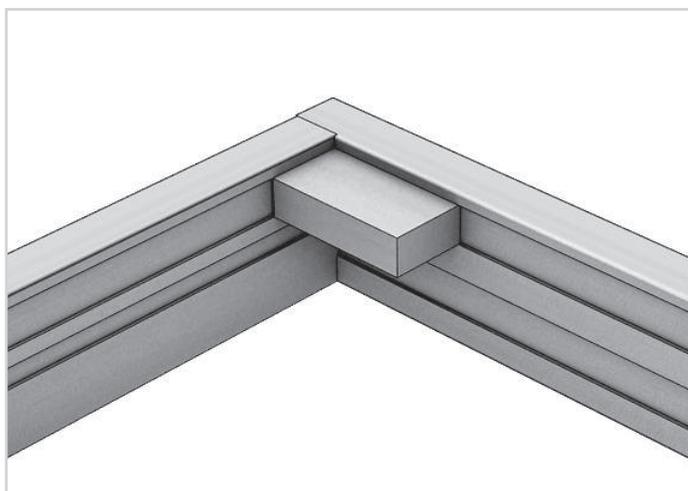
- handling individual sashes
- handling frame
- handling glass



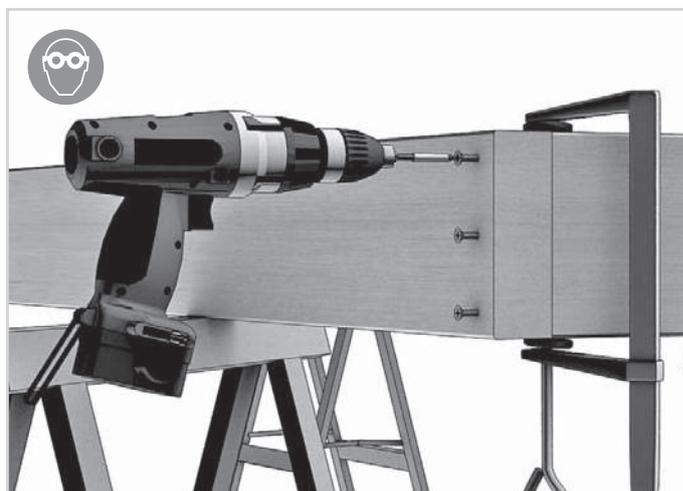
01. After placing the jambs and head jamb closing side up on a pair of saw-horses, drill clearance holes on the head jamb at the fixing point with the jamb.



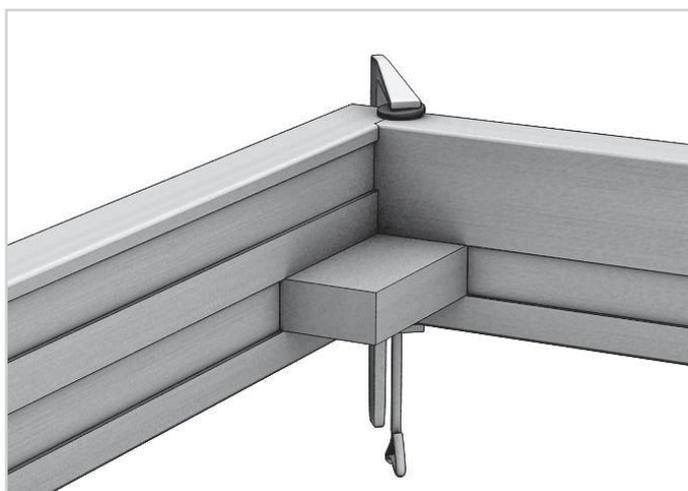
02. Apply a bead of silicone on both ends of the head jamb in the fixing area.



03. Insert a wooden block on the 42 mm side to centre the milled sections of the jamb and head, on both sides.



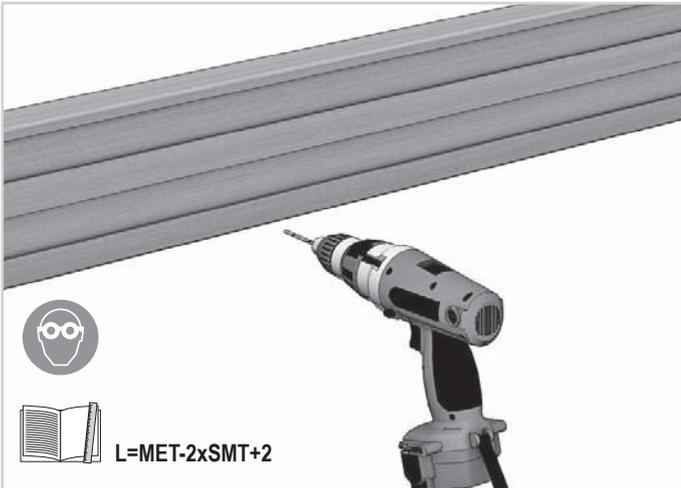
04. Clamp and secure the jamb and head with 6x120 screws.



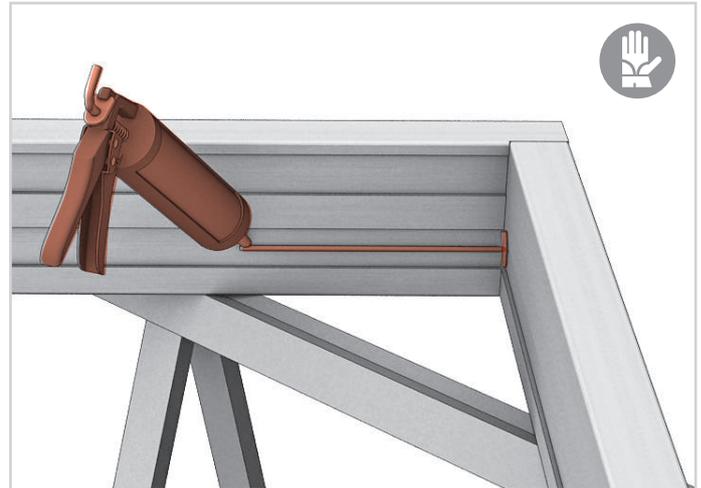
05. Repeat operation n. 3 on the opposite side.



06. Repeat operation n. 4 on the opposite side.



07. After cutting the top door stop to size according to indications provided in the technical manual, pre-drill holes on the head for fastening.



08. Apply a continuous bead of silicone. Seal the jambs where they come into contact with the door stop.



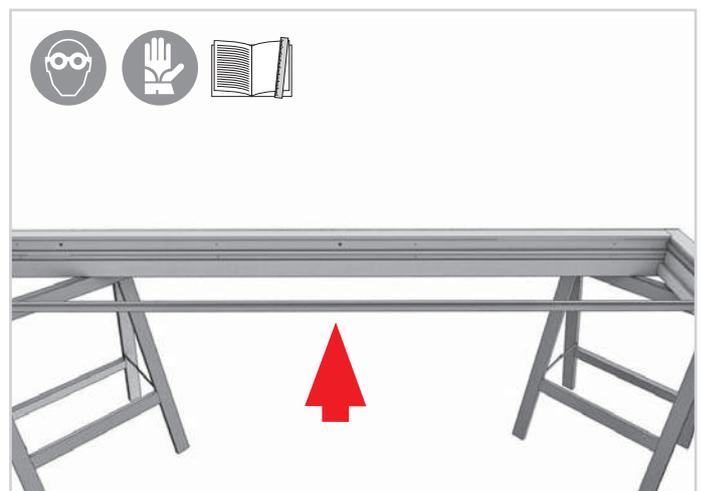
09. Insert the top closing listel on the top transom at the outside milled section so that it rests against the lock side.



10. Secure the top closing listel with \varnothing 4,5x60 mm screws.



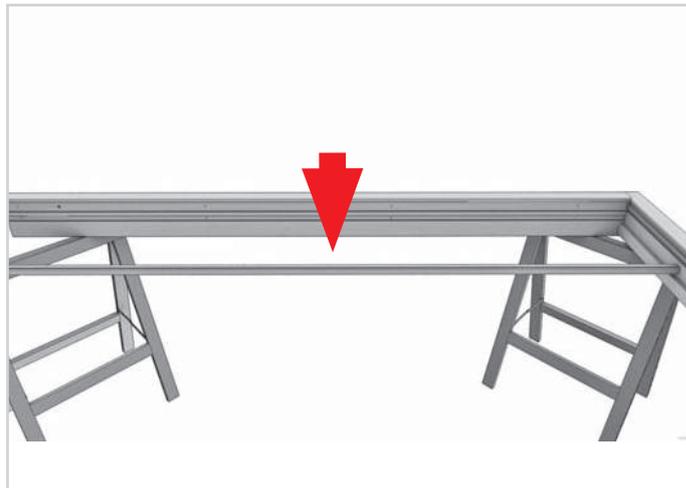
11. Cut the top guide to size, place it in the appropriate milled section of the head jamb (screw holes facing inwards), position up against the fixed sash side of the frame jamb and secure it provisionally.



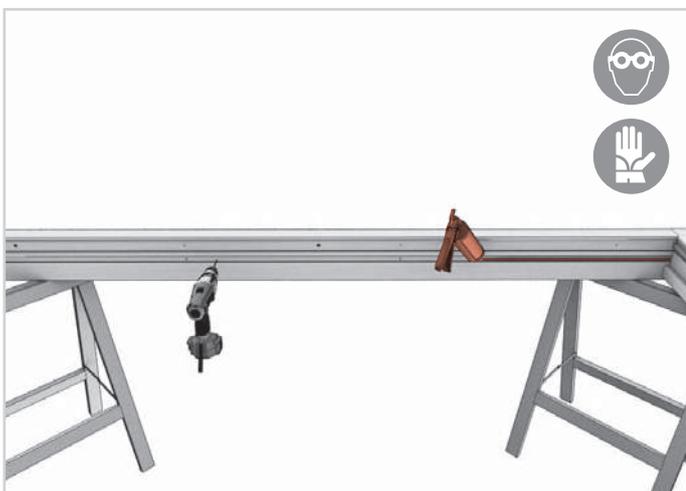
12. Cut the brush holder listel to size and position it in its seat.



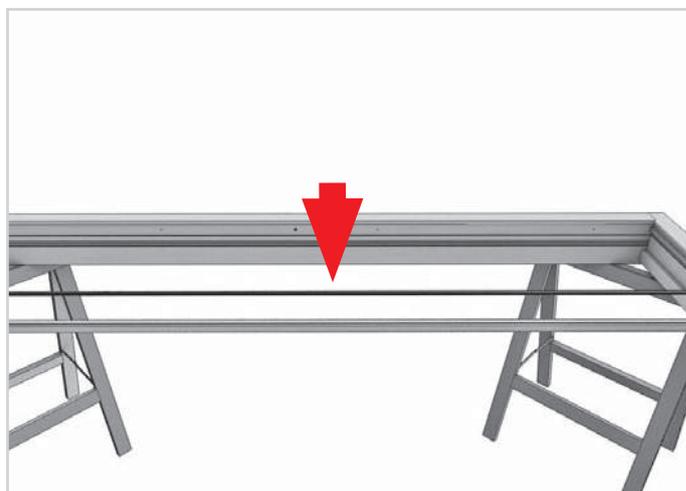
13. Check that the measurement is exact by controlling that the brush listel holder extends all the way to the head jamb.



14. Temporarily move the listel.



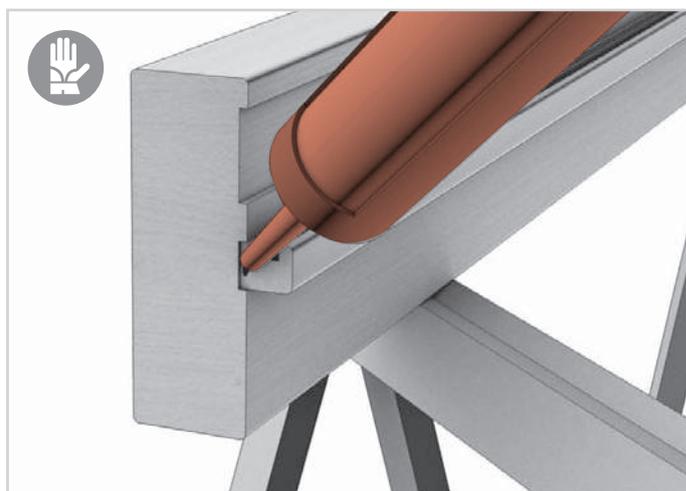
15. Drill the clearance holes and apply a bead of silicone in the connection area.



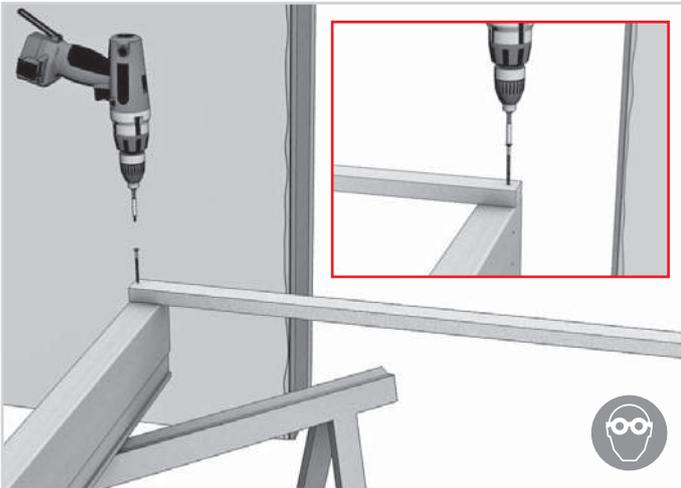
16. Mount the brush before securing the listel.



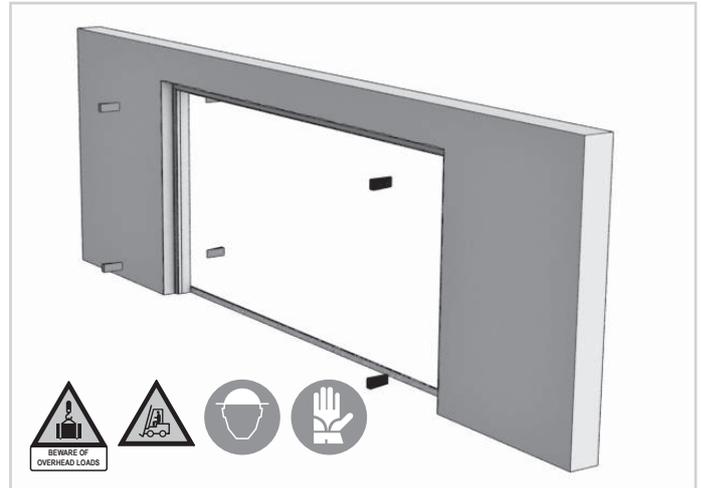
17. Secure the brush holder listel from the outside of the frame with \varnothing 4,5x60 screws.



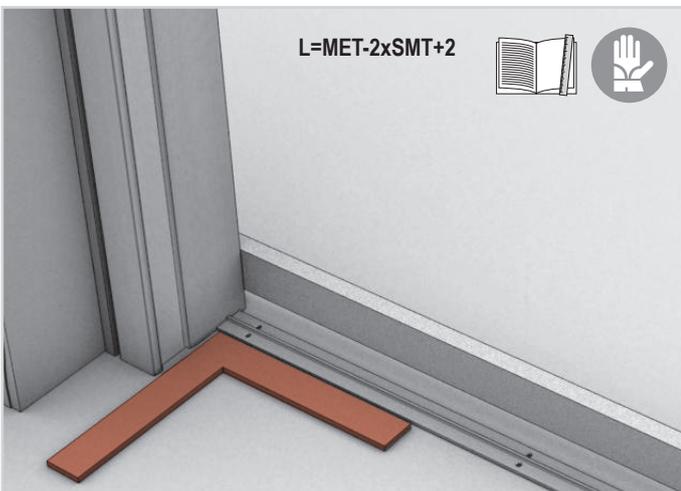
18. Apply a drop of silicone at the base of the profile to make it waterproof.



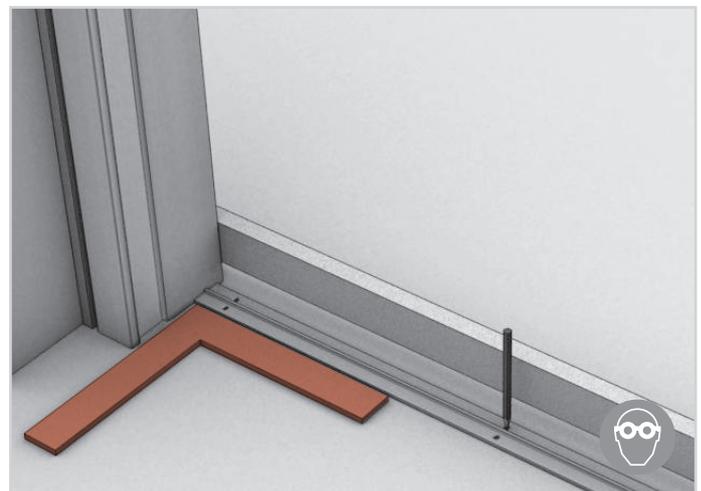
19. Secure a listel of rough wood that is the same length as the head jamb at the base of the jamba in order to ensure that the frame is square. Make sure that the screw holes are later covered by the covering plugs.



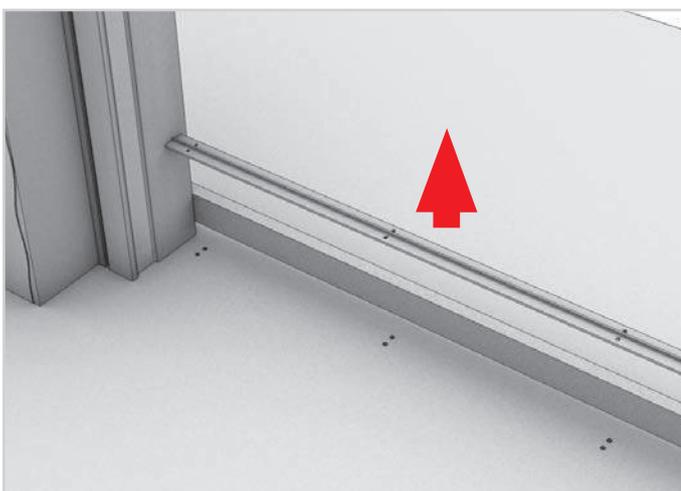
20. Lift the frame and insert it in the sub-frame making sure that the jamba are perfectly plumb by using wooden wedges.



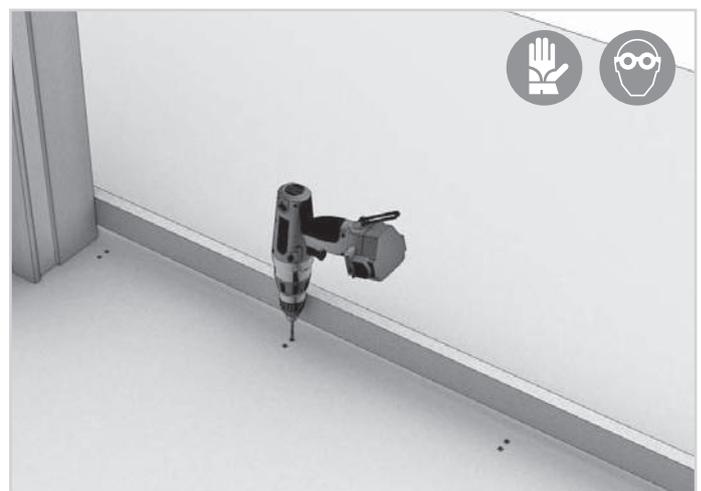
21. Cut the track according to the instructions provided in the technical manual. Lay the track against the fixed sash side of the frame jamb. Make sure it is perfectly aligned square by using a square set against the frame jamb.



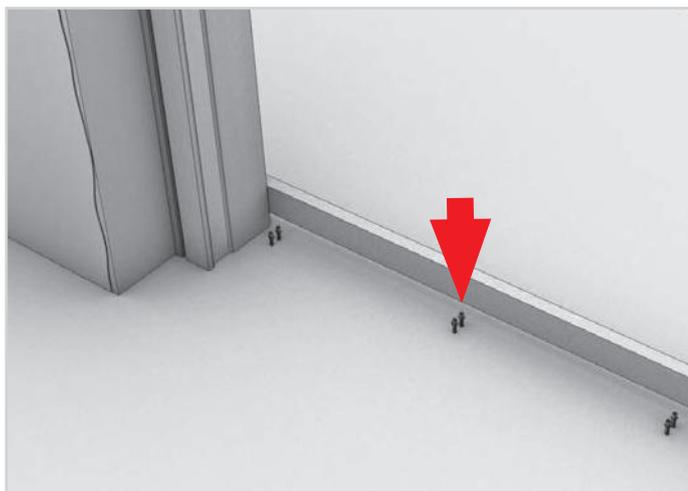
22. Use the holes on the track to mark the floor holes where the plugs will be installed.



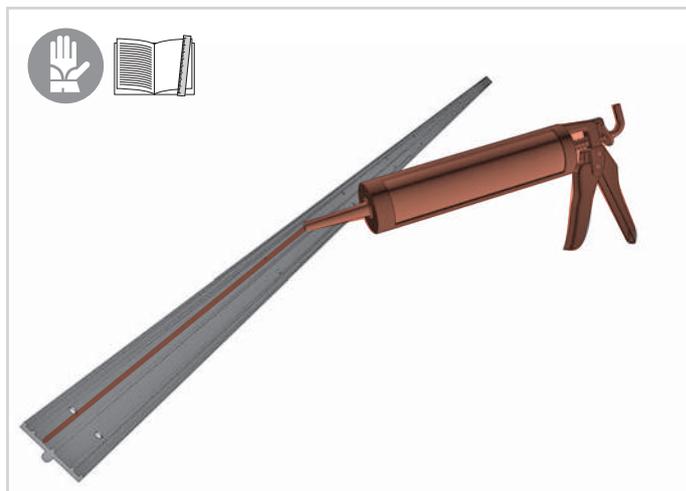
23. Temporarily remove the track to drill holes in the floor.



24. Drill the holes where marked using an $\varnothing 6$ drill bit suited to the type of material being drilled.



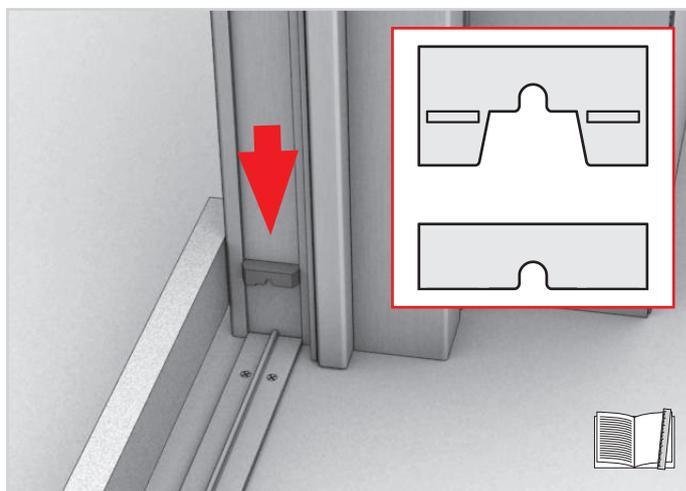
25. Clean the holes and insert \varnothing 6 mm plugs.



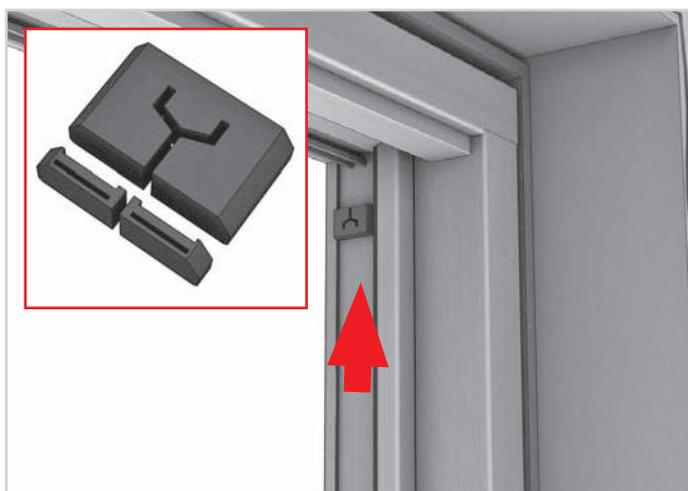
26. Apply a bead of silicone along the length of the underside of the track on the outer part.



27. Secure with 3,5x40 mm screws.



28. Apply the shaped pad on the bottom track, adjusting it according to the instructions if using the low track; leave the pad whole if using the high track.



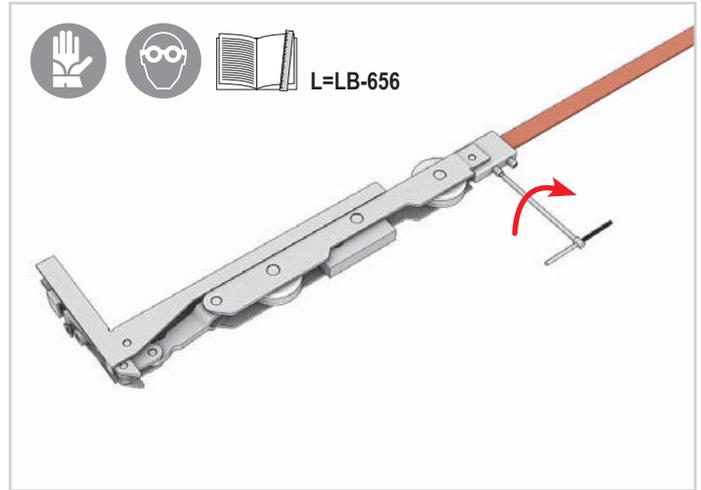
29. Cut the top cap and insert it in its seat.



30. Insert the pin holder profile previously cut according to the instructions provided in the technical manual.



31. Pre-drill holes in the listel and secure with 3,5x30 screws. Take care not to place the listel where the locking pins will later be installed.



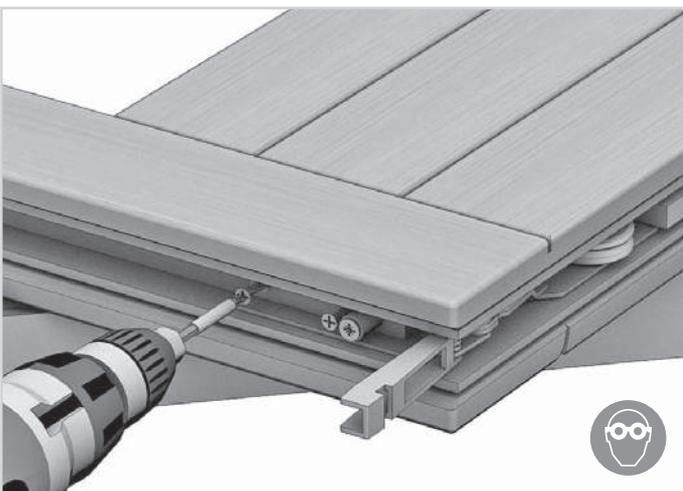
32. Cut the carriage rod to size. Make sure that the front and rear carriages are in the lowered position, insert rod in the carriages and secure tightly using the grub screws provided.



33. Insert the carriage assembly in the milled section provided in the sliding sash. Make sure that the milled section is free from glue residues that could change the position of the carriage or cause it to not work properly.



34. Secure the carriage assembly.



35. Secure it laterally as well.



36. Unscrew the connecting screw of the lock movement.



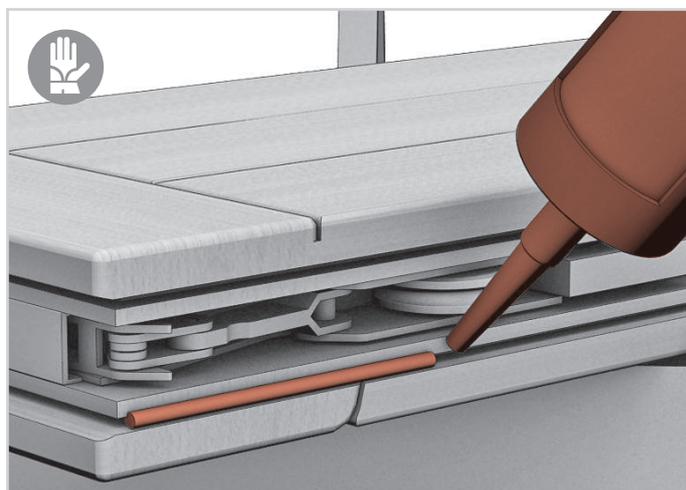
37. Insert and fasten the carriage link rod guide pad to the middle point of the sash.



38. Cut the forend of the lock according to the instructions provided in the technical manual. Check that the lock is in the locked position (forks facing down).



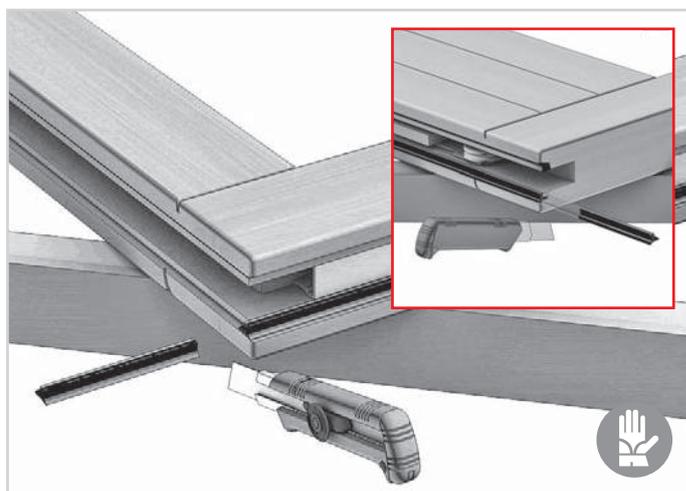
39. Secure the lock starting from the connecting screw with the front carriage.



40. Seal the outside milled section of the bottom rail with silicone.



41. Gradually insert the gasket with vulcanized corner without stretching it.



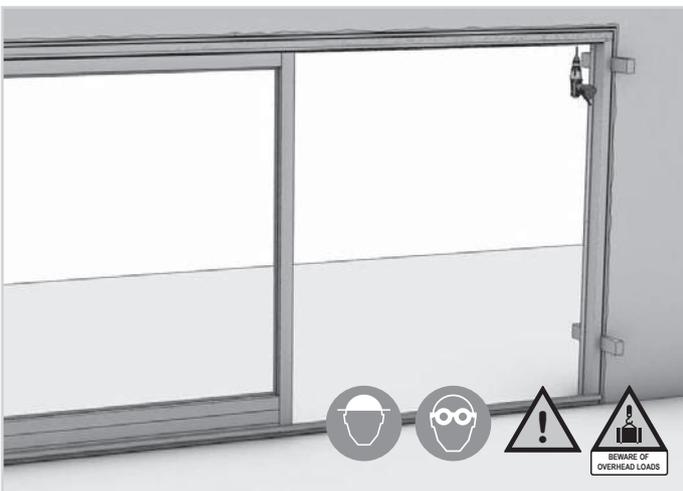
42. Cut off the excess parts at the end.



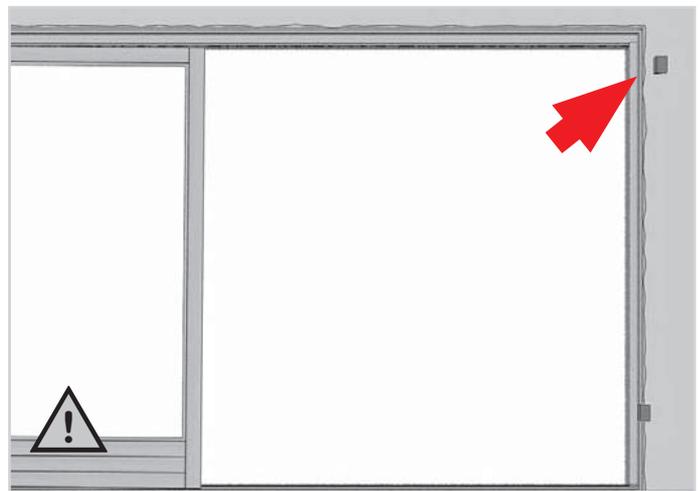
43. Gradually insert the gasket for the inside face without stretching it.



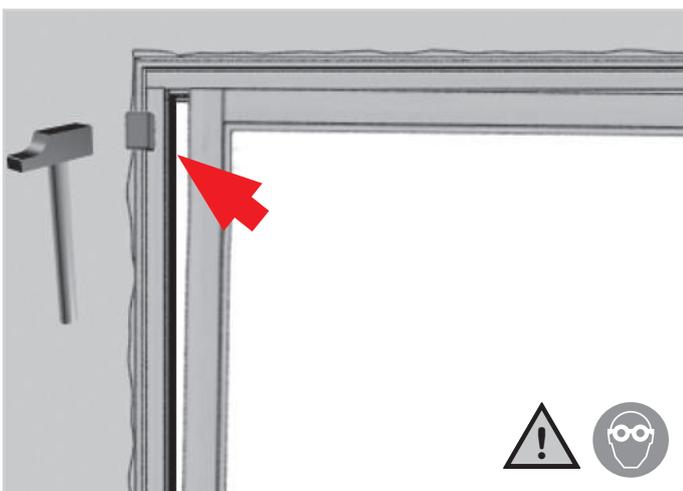
44. Cut off the excess parts at the end.



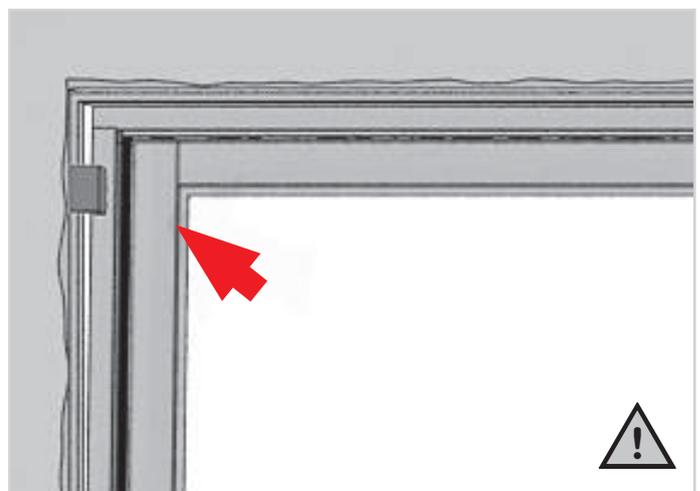
45. Temporarily insert the sliding sash above the track, secure the related top guide and slide the sash towards the strike jamb so that the sash and frame meet.



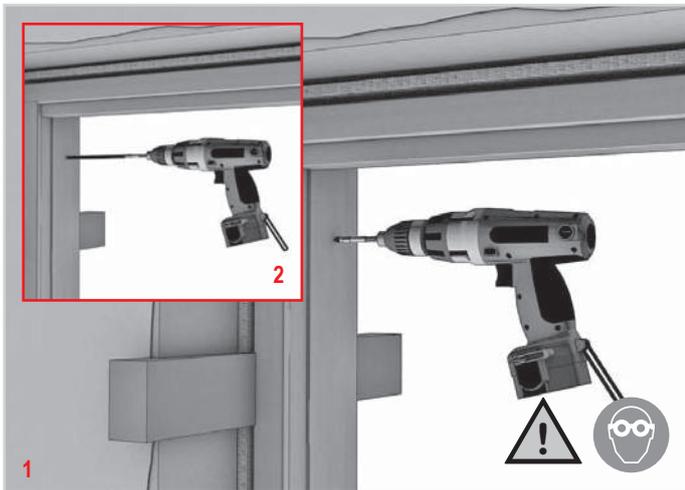
46. If the sash is not perfectly parallel to the jamb, position the frame out of square in order to ensure correct parallelism and perfect closing of the sash. To do this, remove the wedge indicated in the above figure, to release the frame.



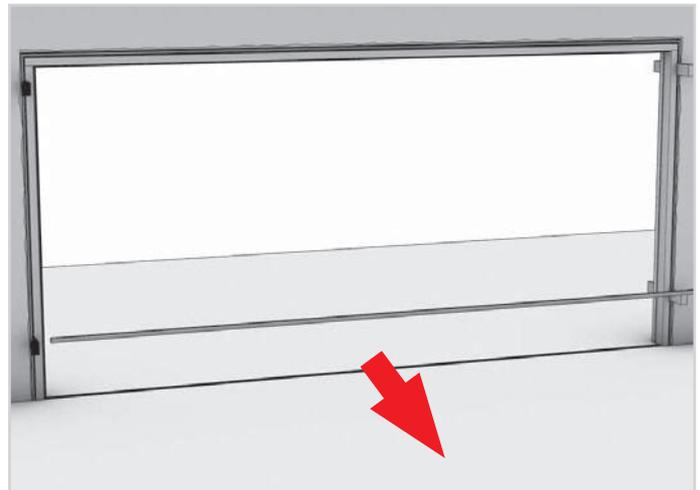
47. Hammer the opposite wedge so that the frame is parallel to the sash.



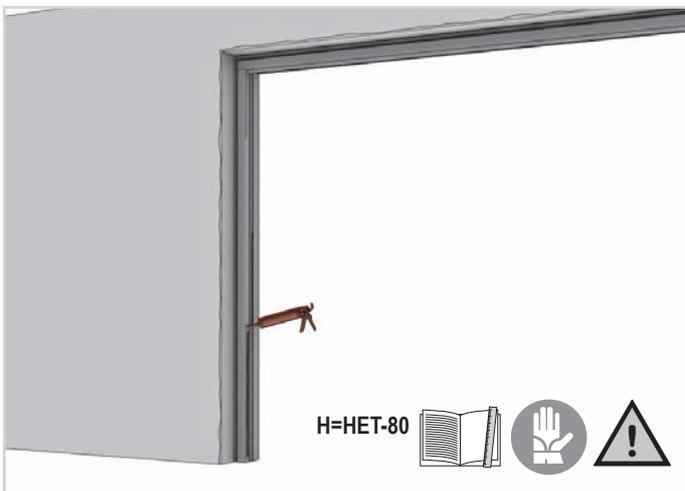
48. Once the frame is in the correct position, remove the sliding sash and related guide.



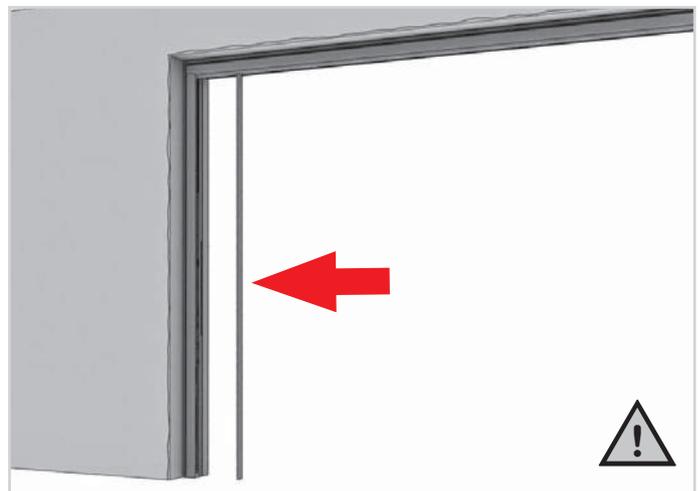
49. Fasten the frame using \varnothing 7,5x120 turboscrews. Consult the screw supplier's technical data sheet for information on the diameter of holes based on the type of wall material. Position the screws at 70-80 cm intervals around the perimeter.



50. Remove the previously fastened listel at the base of the frame.



51. Cut the fixed sash listel to size according to the instructions provided in the technical manual and apply a silicone bead along the milled housing section.



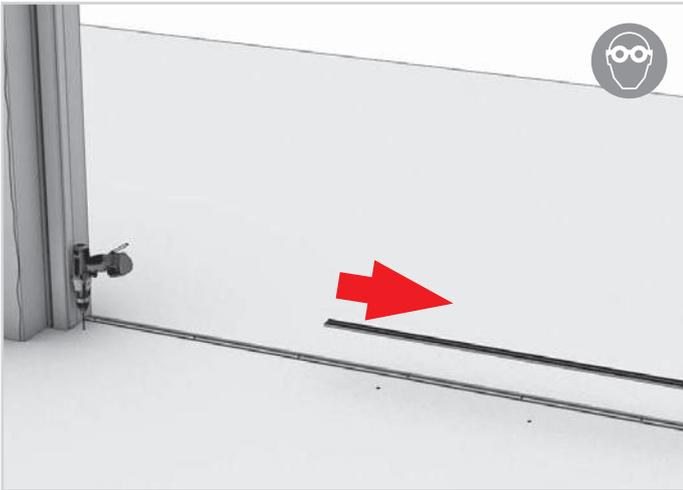
52. Place it in its milled section.



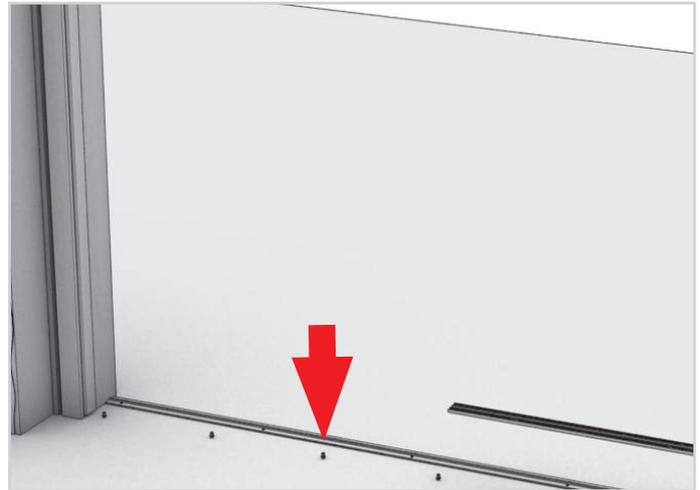
53. If necessary, pre-drill holes in the listel or secure it directly using \varnothing 3,5x35 screws, proceeding from the inside.



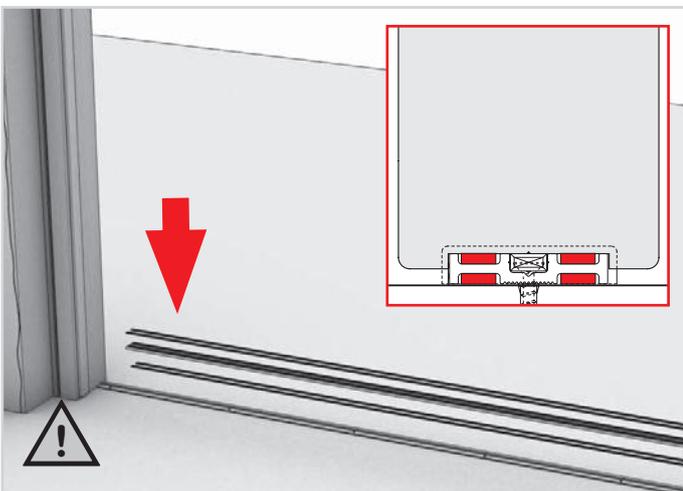
54. Cut the fixed sash supporting profile according to the instructions provided in the technical manual and bring it so it rests against the jamb on the fixed sash side. Check that it is parallel with the track. Use the holes on the profile to mark the floor holes where the plugs will be installed.



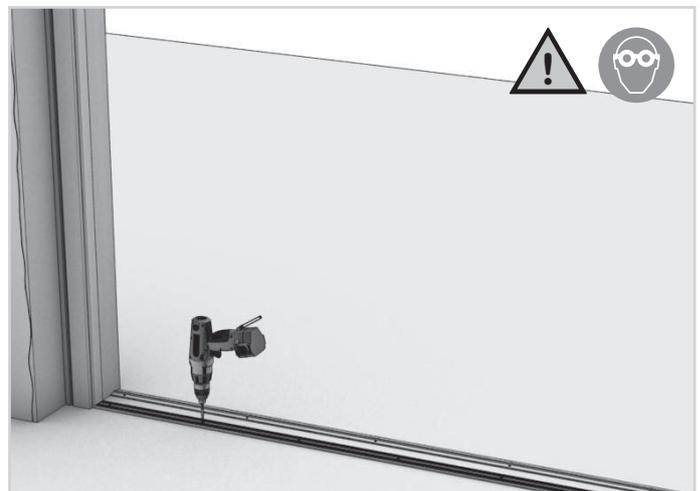
55. Temporarily remove the profile to drill the holes in the floor using a 6 diameter drill bit suited to the material being drilled.



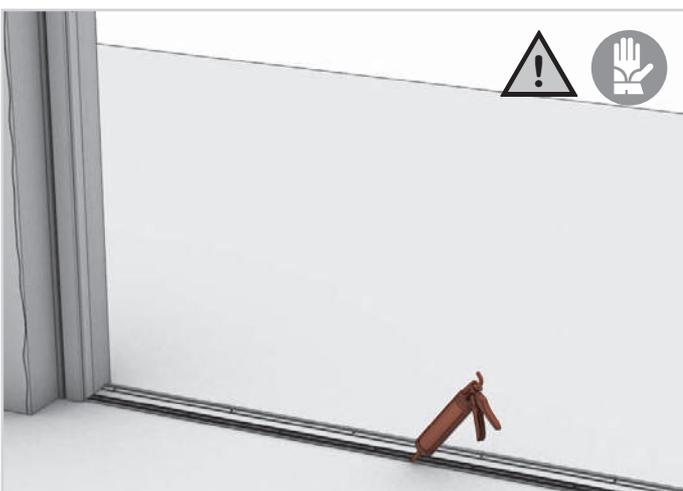
56. Clean the holes and insert the \varnothing 6 mm plugs.



57. Apply foam tape in the four cavities of the profile.



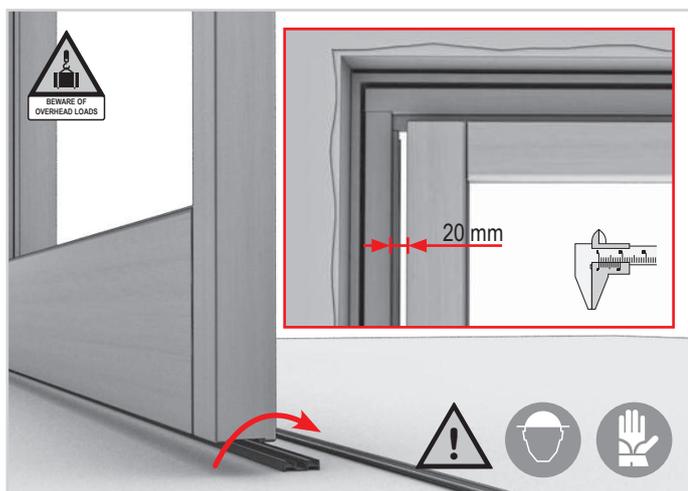
58. Secure with 3,5x40 mm screws.



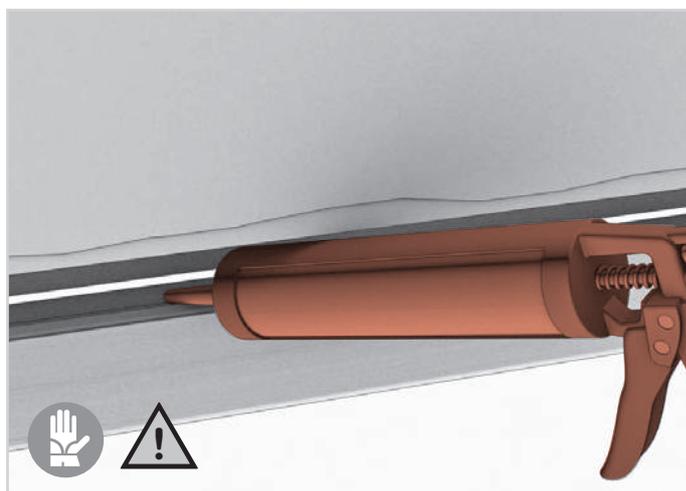
59. Apply a bead of silicone on the outside edge between the supporting profile and floor.



60. Apply silicone along the entire length of the fixed sash listel.



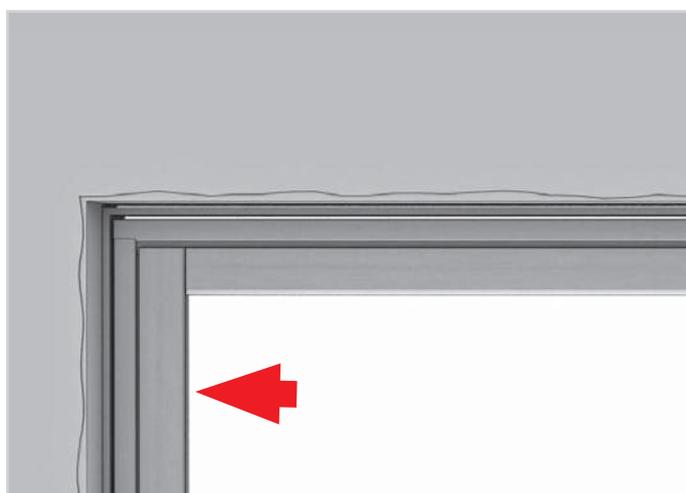
61. Slide the fixed sash above the profile taking care to keep the sash about 20 mm away from the frame jamb.



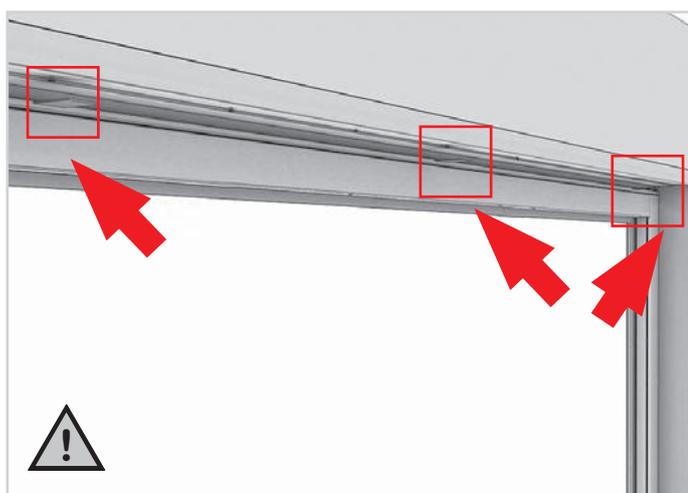
62. Apply a bead of silicone along the top part against the rebate.



63. Turn the sash until it is snug against the head jamb.



64. Shift the sash until it is snug against the frame jamb.



65. Insert the 2 mm spacers between the fixed sash and top listel.



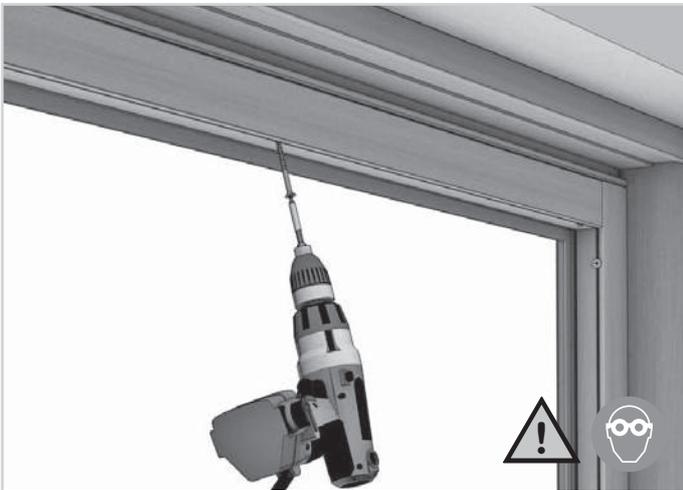
66. Pre-drill holes diagonally under the glazing bead.



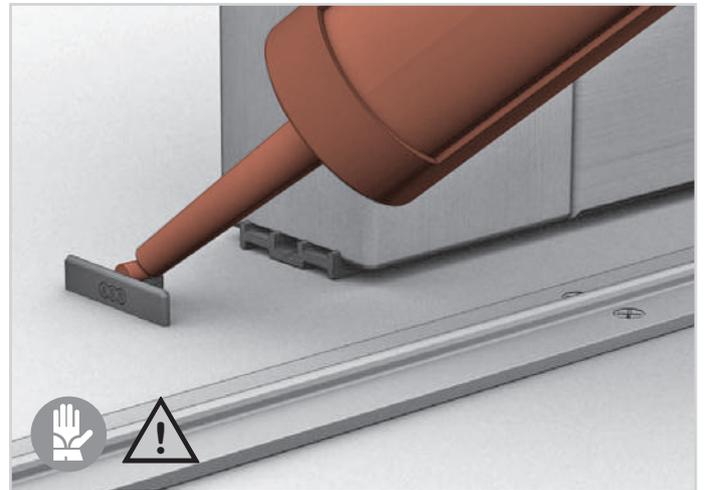
67. Repeat operation n. 66 on the other sides.



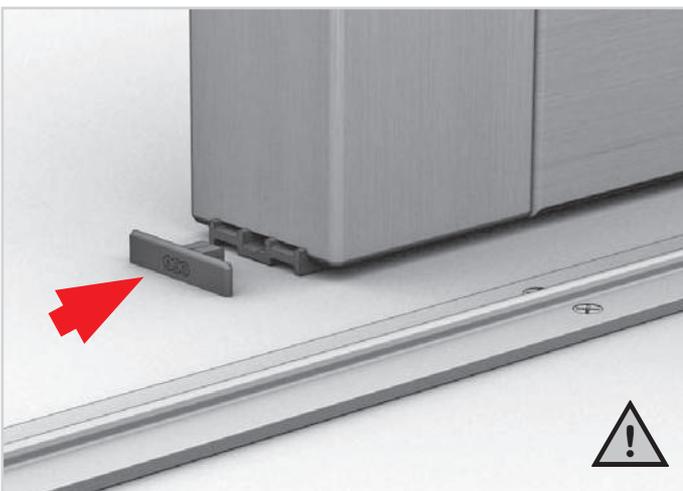
68. Secure with 6x120 screws if the height of the profile is 100 mm, 6x140 if the height of the profile is 110 mm.



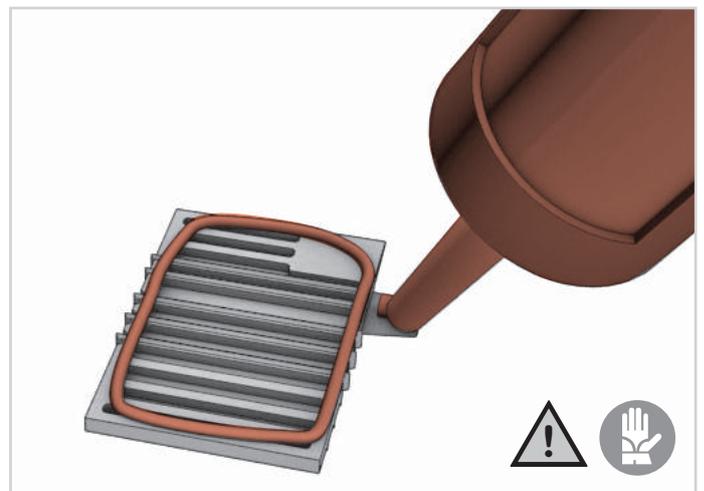
69. Repeat operation n. 68 on the other sides.



70. Silicone the cap in order to seal the end and prevent water infiltration.



71. Insert cap.



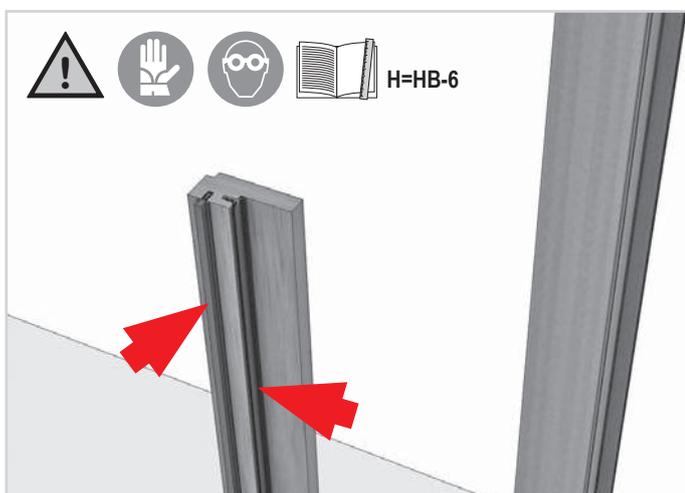
72. Silicone bottom pad.



73. Apply silicone along the edge between the supporting profile and bottom pad.



74. Insert the pad aligning the side of the pad flush with the fixed sash.



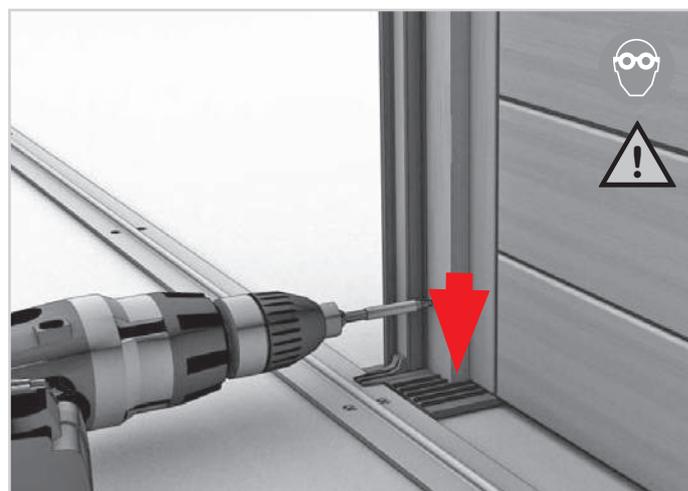
75. Cut the listel for the fixed sash, brush, and gasket according to the instructions provided in the technical manual and insert them in the appropriate milled section.



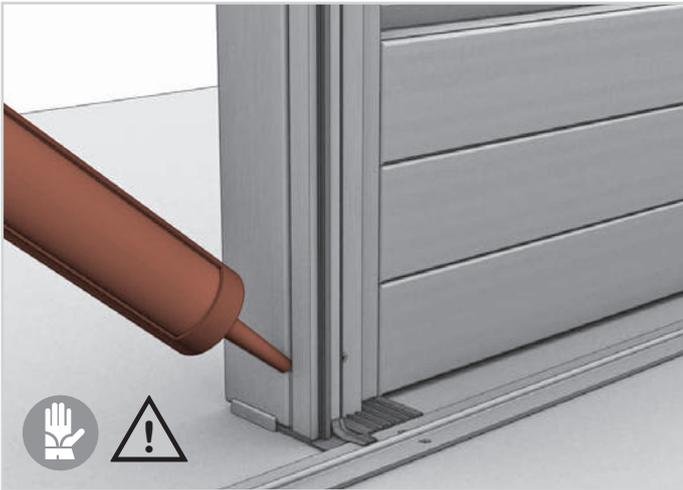
76. Silicone contact point above the pad between the gasket retainer listel and fixed sash.



77. Insert the listel by apply slight pressure on the bottom pad and making sure that it is aligned on the edge of the fixed sash.



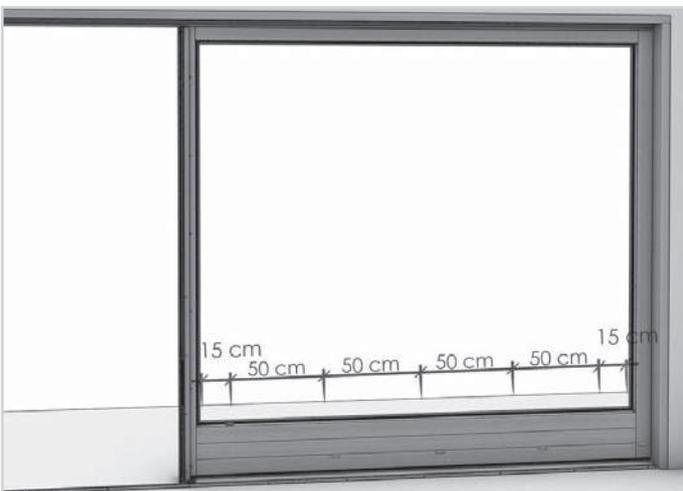
78. Holding down the bottom pad, secure the listel (pre-drilling is recommended). The gasket retainer listel must be aligned flush with the fixed sash.



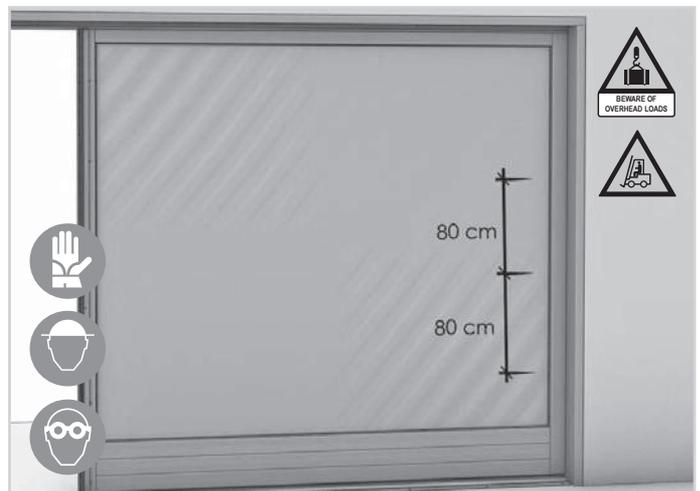
79. Seal the vertical listel/sash joints in the groove provided along the entire height.



80. Apply gasket tape to the outside edge of the glazing bead profile around the perimeter of the sash.



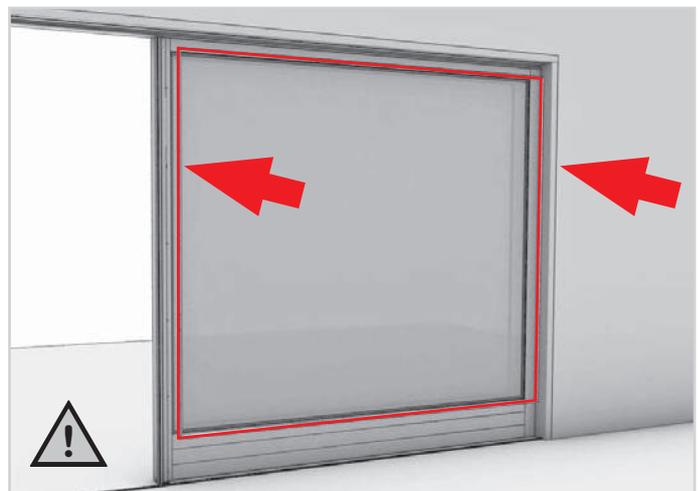
81. Insert the spacers for the glazing about 15 cm from the corners. Distribute the other spacers on the horizontal section, at about 50 mm intervals.



82. Insert the glazing and the other spacers on the vertical section at about 80 cm intervals.



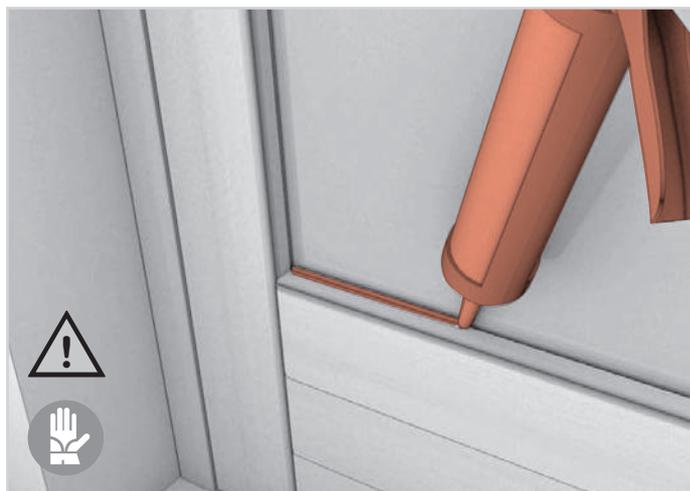
83. To improve sound insulation, you should use a special gasket for the glazing bead also internally. Alternatively, silicone the inner part of the glazing bead against the glazing.



84. Insert the glazing bead, taking care to pre-drill holes for the screws.



85. Secure the glazing bead with \varnothing 3x40 screws diagonally.



86. Apply a bead of silicone on the outside edge of the glazing.



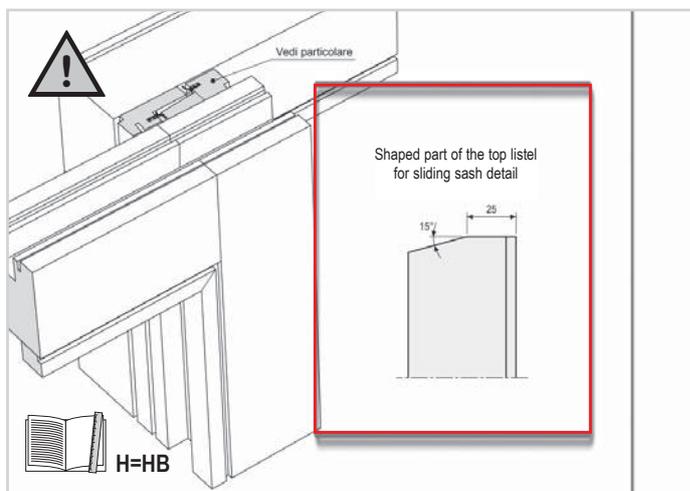
87. Do the same for the other sides.



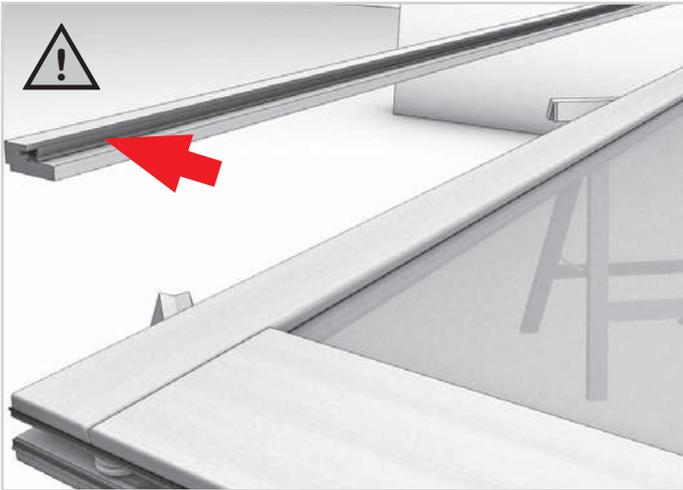
88. Spray with a polishing product.



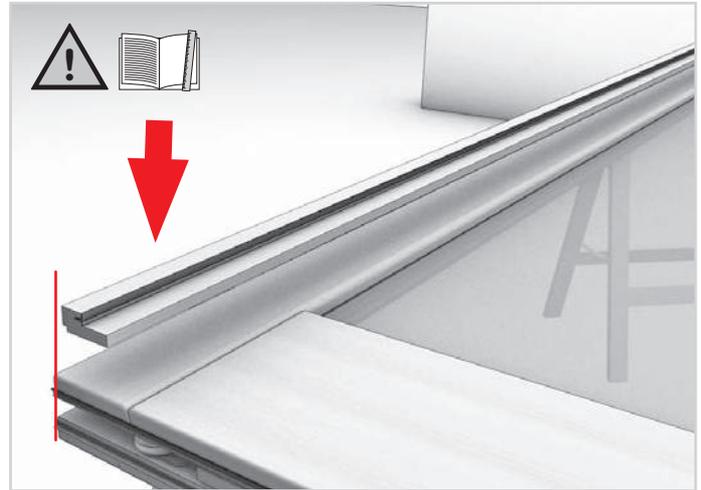
89. Remove the excess sealant using a spatula.



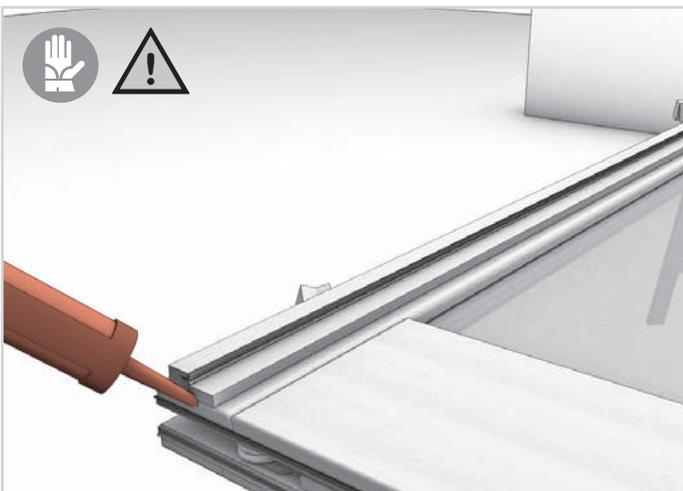
90. Cut and shape the gasket retainer listel of the sliding sash according to the instructions provided in the technical manual.



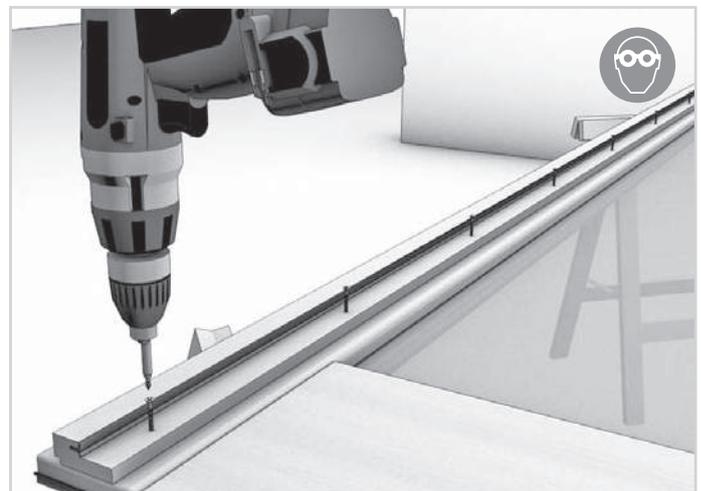
91. Insert the special gasket.



92. Carefully position the listel on the moveable sash, referring to the information provided in the technical manual and secure with screws. You should pre-drill holes in the listel before securing it.



93. Use silicone or stucco to fill in the bottom gap of the sash at the bottom of the just installed gasket retainer listel. This operation is important as it will prevent water infiltration.



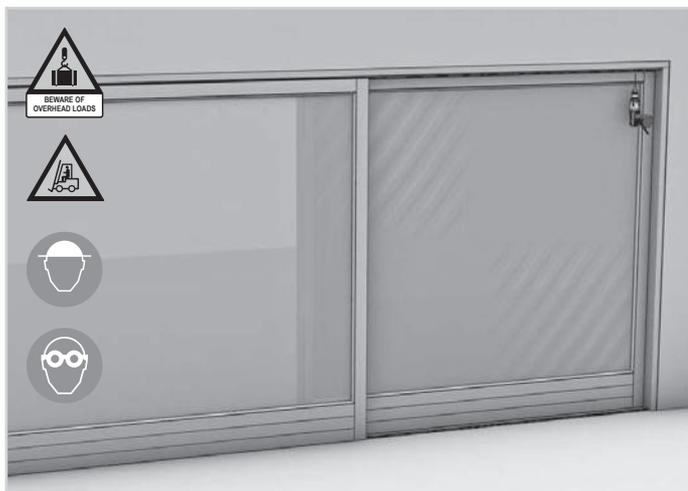
94. Secure with 4x40 mm screws.



95. Cut the top gaskets for the sliding sash to size, taking care to shape them to match the front part.



96. Insert them in the milled sections provided in the top rail.



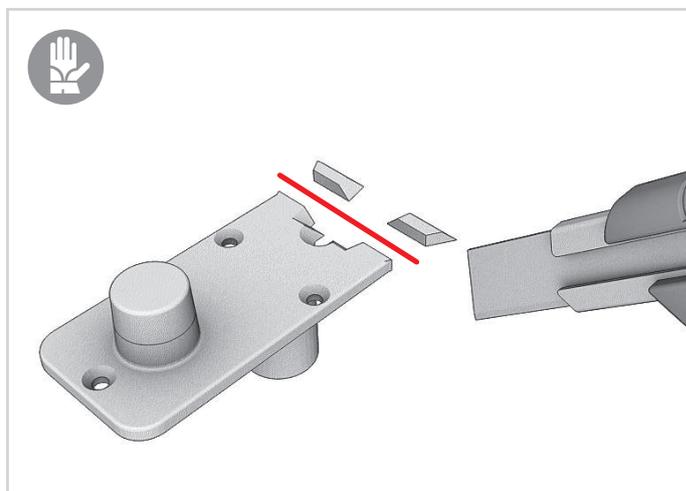
97. After mounting the glazing following the procedures for the fixed sash, mount the sliding sash by inserting the guide in the top groove of the sash and secure it to the frame head.



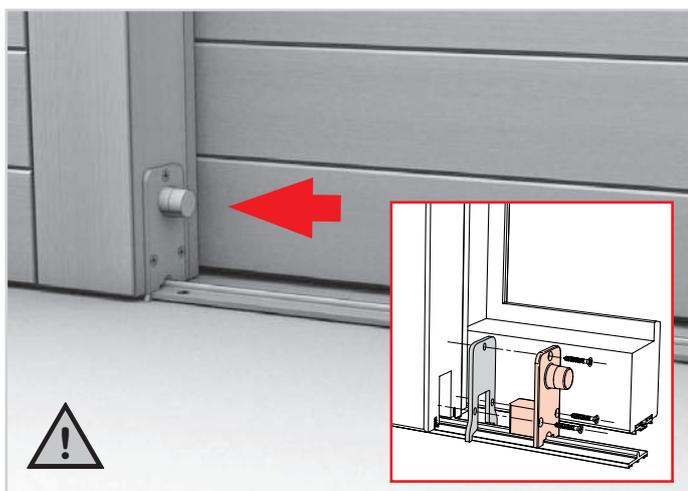
98. Attach the rear end cap.



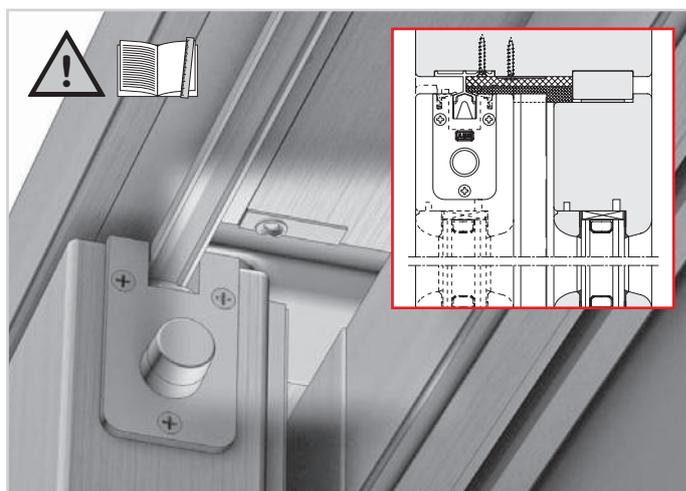
99. Attach the top front end cap.



100. Cut the bottom cap if using the bottom track.



101. Fasten the bottom end cap after fitting it to the anti-derail plate.



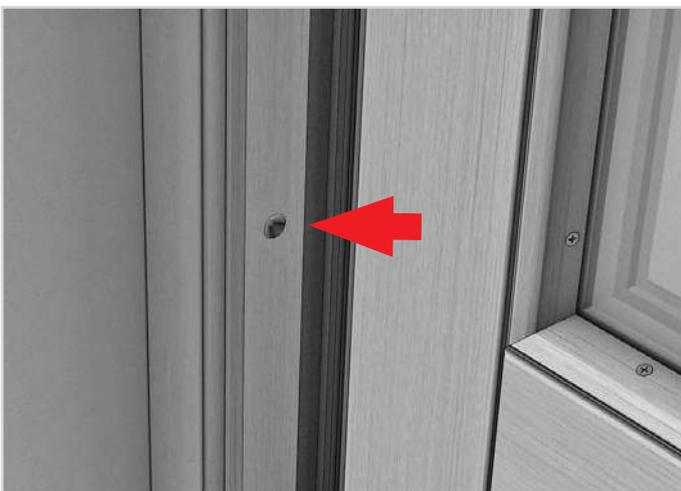
102. Insert the foam pad in the cavity above the central point between the guide and fixed sash listel.



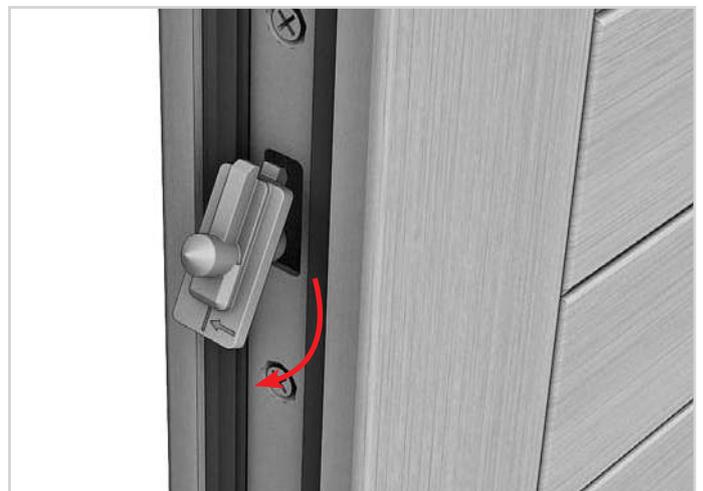
103. Secure with screws using the pre-drilled holes on the metal part located on the end of the pad.



104. To position the pins on the listel, insert the jig in the lock as illustrated above.



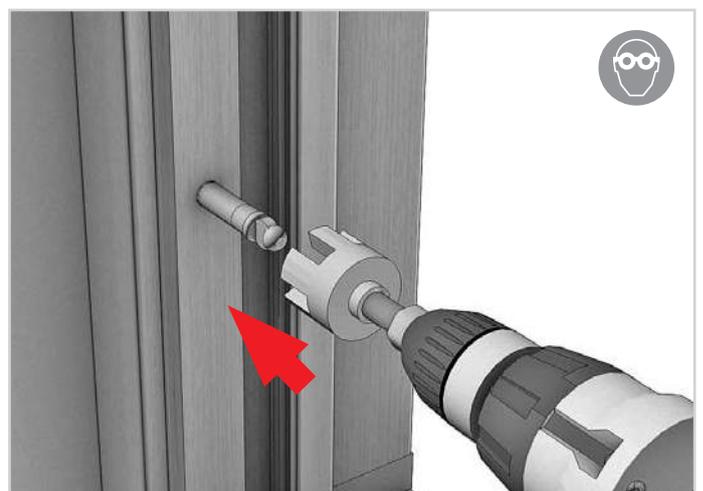
105. Apply pressure with the sliding sash on the frame stop.



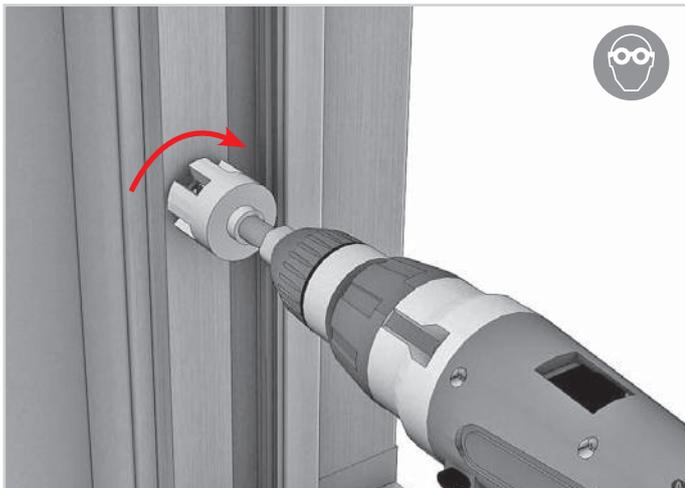
106. Remove the jig.



107. Drill a hole using an \varnothing 10 drill bit for softwood or \varnothing 11 drill bit for hardwood.



108. Insert the pin.



109. Tighten until reaching the end position.



110. Use a spanner to adjust the position of the pin.



111. Seal the external milling with silicone.



112. Insert the external milling of the handle.



113. Insert the handle and secure with the appropriate M5 screws.



114. Slide the finish plate in the lever until it overlaps the closure.



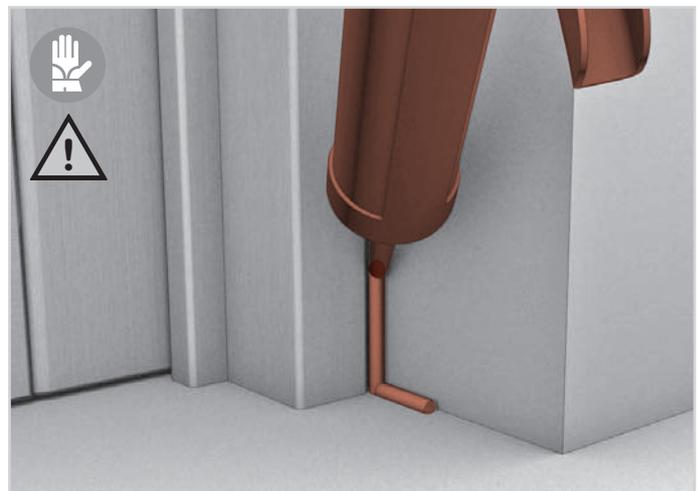
115. Drill holes in the head jamb with an \varnothing 8 drill bit for housing the bumpers.



116. Insert the bumpers and tighten using the screws provided in the kit.



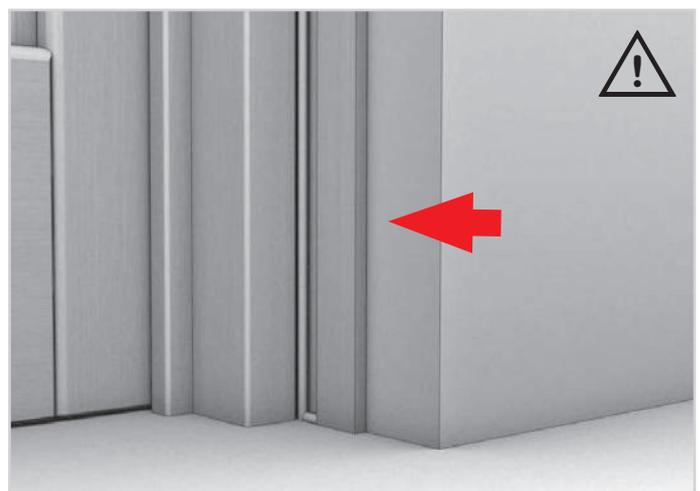
117. Between the frame and sub-frame of the outside face, insert a suitable polyethylene cord with a diameter that is 5 mm greater than the opening between the frame and sub-frame.



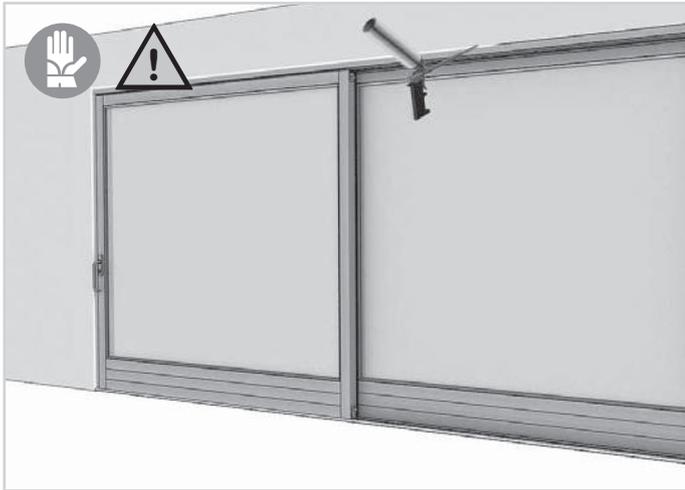
118. Seal the outer joint between the frame and sub-frame using a polyethylene cord as a base for the silicone.



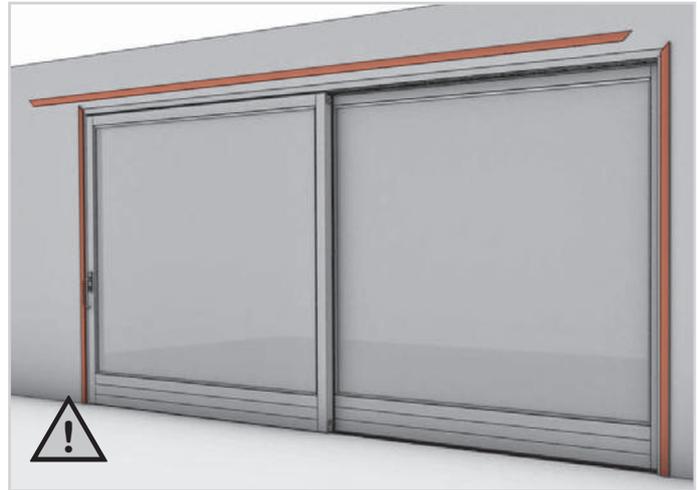
119. Continue operation around the perimeter.



120. Cut the door cover plugs, apply a bead of silicone on the base before mounting it and secure to the sub-frame.



121. Fill the opening between the frame and sub-frame with foam. For this operation you should use low-expansion foam with sound insulation properties, better if with elastic properties that remain after hardening. In any case, distribute the foam in a way to avoid having to cut off the excess foam coming out of the seat after hardening.



122. Insert a polyethylene cord also in the inside face and then seal the surface with silicone using the same procedures as the outside face. Complete the operation by positioning the inside face door trim.



123. Close the door or window and turn the handle upwards.

**Congratulations for choosing the
AGB Lift&Slide System.**

PERIODIC MAINTENANCE AND CHECKS

To keep the door or window working properly and to maintain the thermal performance characteristics over time, which AGB guarantees for doors and windows that are properly assembled according to the instructions above, periodic maintenance must be performed as follows:

At least once a year:

- check the handle to see that it works properly;
- check the lock to see that it works properly;
- check the sliding action of the carriages on the tracks;
- check the fasteners and hardware for wear.

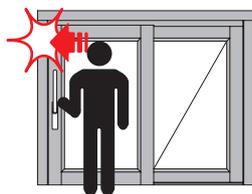
Every 6 months:

- lubricate moving parts with grease (avoid using diluents as they could compromise hardware functions).

Every month or as needed:

- vacuum out any dirt that may have collected in the water drains on the tracks.

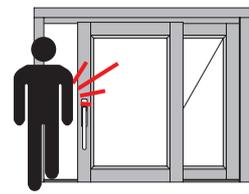
Any adjustments and/or repairs on the window or door must be performed by specialised personnel.



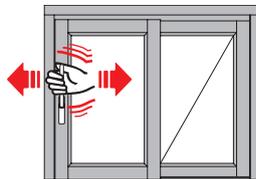
Do not slam the sash against the frame.



Do not obstruct window and door opening and closing with foreign objects.



Do not place any body parts between the sash and frame (as this could result in injury).



Do not force the anything: In case of a problem, check to see if there is a misalignment or if something is obstructing moving parts.

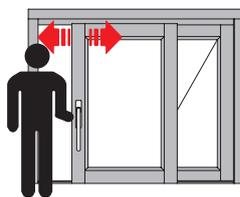


Max. 300 Kg

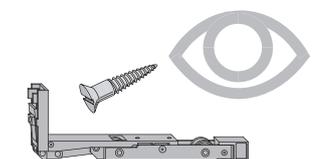
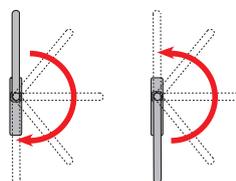
Do not overload the door. The carriages can hold a maximum of 300 kg.



Perform periodic maintenance tasks.



Check for correct movement. Any adjustments required for correct door or window operation must be performed by qualified personnel.



Check the fasteners and hardware for wear.



Avoid using products that could compromise the corrosion protection properties of the hardware



Lubricate all moving parts with grease: pins, carriages, slots



Remove any dirt that may have collected in the water drains on the tracks.

GENERAL WARNINGS AND WARRANTIES

The Company Alban Giacomo SpA., in the assignment of ITT results via Cascading for the purpose of C€ marking, sees an opportunity to deliver its know-how to its Customers. This know-how is the result of extensive and difficult research that has involved a large number of tests conducted on an equally large number of doors and windows, verifications for choosing the materials to use, and the best solutions available. The aim is to provide a service to help the professional growth of customers and to contribute to promoting exceptional doors and windows that are increasingly in line with today's needs.

In order to grant the use of ITT results via "cascading" from the company Alban Giacomo SpA, the assembler declares and guarantees to follow, as an integral part of its Factory Production Control (FPC) system, the assembly and installation instructions provided by the Licensor and referred to in ITT certificates. The assembler shall assume the sole responsibility to assess if and in what measure ITT results can be used for the purpose of certifying the Product or if the Product should be subject to new tests in accordance with art. 7.2.2 of the Standard EN14351-1, in the event of modification and/or substitution of one or more of the components used by Alban Giacomo SpA in the sample subject to ITT. Furthermore, please note that:

The company AGB Alban Giacomo SpA, authorizes the assembler who manufactures and markets finished and ready to use doors and windows to use the test results, provided that:

- all documentation and tests conducted by the Licensor are in compliance with the same standard, prior to signing an agreement to use the results and supporting documentation;
- the samples produced by AGB for the tests forming the basis of the report, are representative of all or part of the product family produced by the assembler;
- the assembler is committed to producing a door or window in compliance with the specifications and supporting documentation provided by AGB, using the same combinations of components and assembling them in the same way as that for which AGB has obtained an ITT report, and to provide documented evidence through its FPC (factory production control), so that there is no reduction in the declared performance values.

AGB shall not be held liable for:

- the quality and/or conformity of the finished product, C€ marked, and placed on the market by the Assembler;
- incorrect, negligent, and/or unjust use of ITT Certificates or ITT reports by the Assembler, understood as non-compliance to the instructions provided by AGB and failure to exercise the professional care required by those working in the sector;
- della the substitution by the Assembler of even just one part that is different than those originally supplied and/or required by AGB and making up part of the System, shall result in any warranty and/or liability of the Licensor becoming null and void as regards the ITT reports.

In any case, it remains understood that failure to comply, in whole or in part, with the assembly, installation, or operating instructions provided by AGB, shall automatically render AGB's liability null and void as regards the System supplied and/or Product resulting from the system as well as ITT reports.

WINDOW/DOOR CHECKLIST

Model	
External dimensions BxH	
Type of glazing	
Type of wood	
Transmittance W/m ² K	
Noise abatement dB	
Date of installation	
Operator	
Tests performed on-site	

CHECKS ON DOOR/WINDOW DURING INSTALLATION

N°	TYPE OF CONTROL	RESULT
1	Check dimensions on door/window (jamb and head)components	
2	Check hardware	
3	Check Jamb, head and sill sealing	
4	Check perpendicularity of frame threshold	
5	Check head closing listel and lateral fixed sash sealing	
6	Check correct positioning of pin holder pad listel	
7	Check correct position of brush holder listel and bottom sealing	
8	Check fixed sash supporting profile sealing	
9	Check bottom pad pin holder listel sealing	
10	Check gasket fitting moveable sash	
11	Check on-site frame centering and moveable sash/ frame parallelism	
12	Check frame anchoring with turboscrews	
13	Check fixed sash anchoring with screws	
14	Check installation of spacers in fixed sash	
15	Check installation of bottom cap fixed sash supporting profile	
16	Check correct sealing of central point bottom pad	
17	Check sealing filler for central point gasket - brush retainer bands	
18	Check glass seal	
19	Check top and bottom end cap assembly	
20	Check bumper assembly	
21	Check sub-frame sealing	
22	Check track sealing	
23	Check position of CE marking data plate	
24	Check correct low-e glass direction	
25	Acoustic glass, if requested	
26	Check for presence of all screws in top guide	
27	Check glazing bead properly anchored	
28	Check dimensions of the central point clamp and shape of sliding sash top bands	



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