Aluminium Wood Skylight Installation Instructions

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1.Attentions during roof window installation process

In order to ensure the smooth installation of the roof windows and keep on time for the construction plan of the project, it's required some coorperation as followings prior and during the window installation.

✧ **Safetly use of electricity**

Installation of a sloping roof window requires a 220 volt power supply to meet the window frame's mounting requirements. Temporarily use the power supply in the power box under each building. But please use the electricity safely according to the requirements of the construction site.

✧ **Safety use of fire**

During the installation process, a gasoline blowtorch is needed to heat the SBS waterproof layer around the window frame.

✧ **Installer's safety**

Safe construction is critical to the construction and installation of your project. It's required to have the necessary safety protection measures during roof window installation process

✧ **Need to temporarily store indoors at the construction site to avoid the possibility of damage due to high moisture or rain.**

✧ **Construction baseline**

In order to ensure that the installation position of the roof windows meets the design requirements of the drawings, the installation of the roof windows will be installed according to the installation reference line provided by the construction site. Please provide an accurate horizontal reference line in advance of the installation of the roof window.

2.Technical explaination for roof window opening

✧ **Basic requirements for the reservation of the roof window opening**

-Roof slop angle: 15°-90°

- Hole size and type: Is it a single window or a combination window? The width and

length of the opening should match the design size. The size of the opening should be 20mm larger than the net size of the actual window.For example, the net size of the opening width * length: 800 * 1200mm, window size width * length: 780 * 1180mm

- Height of the opening: The height of the upper and lower openings is reasonable, suitable for operation and future use.

- Height and size of the extrusion: The reserved extrution feature should have the proper strength, height and size should meet the installation requirements

- The situation around the hole: There should be no other structures within 500mm around the hole, (the flue vents, etc.) affect the installation and use of the window.

- The distance between the hole and the tile: The outer surface of the hole should be dry, clean and flat, and the waterproof layer should be exposed for the base treatment. The construction of the roof tile should be suitable for the construction conditions of the waterproof and drainage board.

- Roof tile: should be roof tiles with good waterproof performance.

- Roof waterproofing: It should be compatable waterproof material with SBS material.

✧ **Requirement for the extrusion feature.**

-Height of the extrusion feature: The height of the upper surface should be controlled within the height of 0~50mm below the roof tile. The recommended height is 30-40mm below the surface of the tile.

- Width of the extrusion feature: width not less than 100mm

✧ **Waterproof layer requirements**

-Waterproof layer exposed width: upper≥180mm; lower≥180mm; sides≥180mm

- If the roof waterproof material is SBS material, the waterproof material can be directly laid to the edge of the hole and the window self attached SBS material can be directly bonded with the roof waterproof material.

✧ **Composition window opening requirements**

- Support beams should be reserved in the middle of the hole. The width is 100mm. It is recommended to use pre-buried channel steel. The steel beam should be facing up, and the upper surface should be flush with the surface around the hole. It should be 30~40mm lower than the lower surface of the tile.

3.Installation process in details

✧ **Critical reminder**

-The outer surface of the concrete roof before window installation must be smooth, dry, clean and treated with a base treatment agent. The original roof waterproof layer must be exposed within 500 mm around the hole.
- The concrete roof must have sufficient strength before drilling. Drill holes should not be too close to the edge of the concrete (at least greater than 25 mm). The iron angle can be directly fixed on the concrete roof.

✧ **Installation process**

Step 1-2: Before opening the package, please check if the glass is in good condition and confirm that the finished model is the correct size and the product is in good condition.

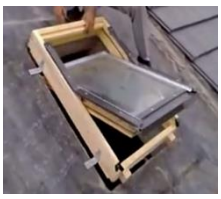
Attentions:
The workplace must be clean, safe and level. Do not use a knife to cut through the package, as this will damage the wood or aluminum cover.

Step 3:
The sash handle is placed face down and has one side of the handle facing the operator, and the floor is covered with soft objects to protect it. To ensure that the sash does not slip to the ground.

Step 4: Find out the spare parts bags, brackets (4 iron brackets for A type window, 6 for B type window), screws. Punch two screws into the window ~2/3 and drilling the the rest to fasten it. Two screws for each one bracket, two iron backets at each one window side. The iron bracket will be fixed at one-sixth of the longitudinal length of the window frame.

Step 5: Put the window on the opening hole and adjust the gaps surround the window.

Step 6: Use the leveling tool to check whether or the window are in horizontal line.



Step 7: Use steel screws to fix the iron brackets for one window side.

Setp 8: Remove the wooden blocks and use it to make the adjustment wedges.

Step 9: Leveling the window, put adjustment wedges under the bracket and fix the other side brackets.

Step 10: Start to pave the SBS material.
-To fix the bottom SBS piece first. Use the nails to fix it to the window. And use two nails to fix the SBS 2cm away from the upper edge of the window frame. SBS cutting point must match the corner of the window frame.
- Before starting to weld SBS, the gasoline burner must be preheated and the welded part only starts to extend outward from the window frame 5-6cm to the range of less than 150 mm. The firer can not be too close to the window frame, as this will burn the window frame. The welding process must be continuous.

Step 11: Fix the two sides SBS and top piece and nail them as the same method as step 10.

Step 12: Cut a 5cm wide piece at the lower part of the long strip SBS (2 right and 2 left), fold the piece as shown by the dotted line, and pad it into the lower corner of the window frame

Step 13: The side strips SBS (2 right and 2 left) are nailed to the sides of the window frame to ensure that the small pieces at the corners of the lower part of the window frame are compacted. If the SBS piece is not padded into the lower corner of the window frame, there is a possibility of leakage.

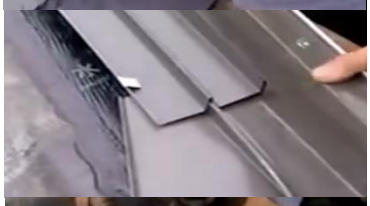
Step14: Finally, the edge sealing treatment of 4 SBSs.

Step 15: Restoring the insulation layer, the water strip and the hanging slats on the

extrusion around the window frame, ready to install the drainage board.

Step 16: Install the No. 6 and No. 5 in the lower frame of the window as shown in the picture and fix them with the screws.

Step 17: Install the No. 4 at the two sides of the window and fix them with the screws.

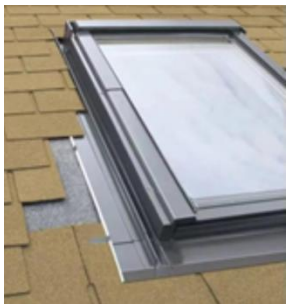


Step 18: Install the No. 2 and fix with the screws.

Step 19: Install the No. 1 and fix with the screws.

Step 20: Recover the tiles, finished.

Type A



Type B

Flashing Kits Parts in details