

SIKO INDUSTRY LIMITED

Add: Economical Developing Zone, Tanshi, Zhangjiagang, Jiangsu, China
Direct Line: 0086-512-56991792 Fax: 0086-512-56991152

PROCESSING METHODS



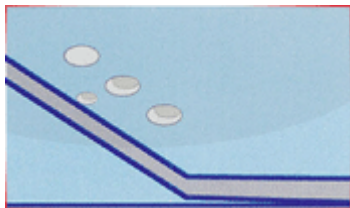
Drilling

Aluwedo ACM can be drilled with twist drills commonly used for drilling aluminium and plastics.



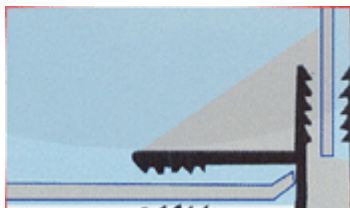
Punching

Aluwedo ACM can be punched with a conventional punching machine. For clean cuts, use evenly ground tools and the narrowest possible cutting gap. Note that punching can cause indentation on the panel cover sheet.



Riveting

Aluwedo ACM riveting is possible with the use of conventional equipment and rivets. For outdoor use of panels, please take into consideration of panel expansion.



Clamping

Use serrated corner-joint and butt joint sections for all Aluwedo ACM of 3mm, 4mm and 6mm thickness.

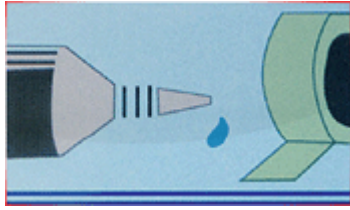


Shearing

Use a guillotine for shearing. Make sure the blanking tools are padded as shearing can cause indentation on the panel cover sheet.

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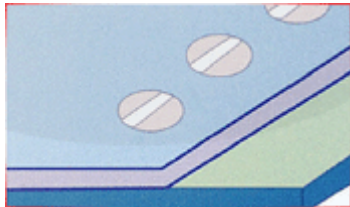
Gluing

Use conventional metal adhesive for gluing of panels. There is no adhesion on the plastic core. For indoor use of panels use double-sided tape.



Welding

Aluwedo ACM can be joined by the hot-air welding method. The plastic core and plastic welding rod are heated and welded with electric hot-air welding sets. Soft black 1800-h-type polyethylene welding rods are recommended.



Screwing

Aluwedo ACM can be screwed together with conventional stainless steel and sheet metal screws. If used for outdoor, take into consideration panel expansion.

PROCESSING INSTALLATION

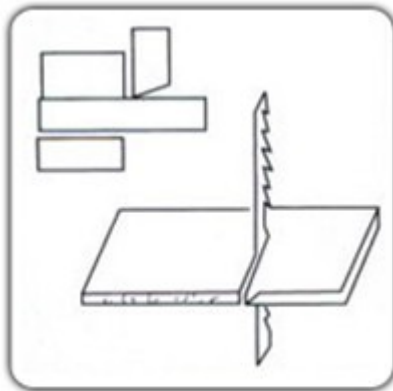
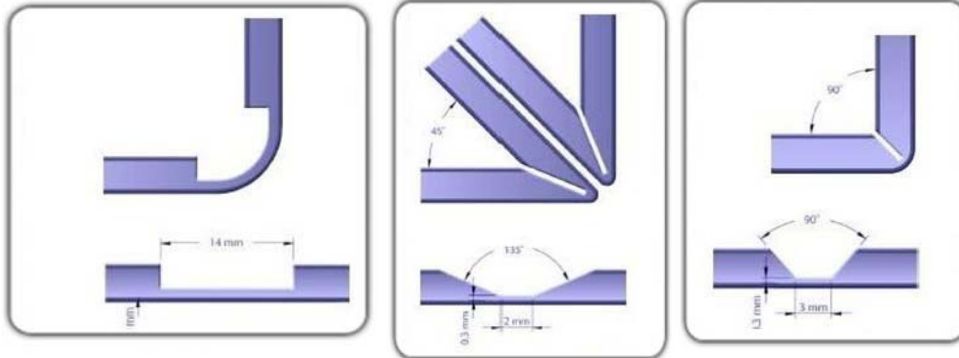
Aluwedo Aluminium Composite Panel is very easy to process. Cutting, milling, slotting, side-folding and curving can be easily fulfilled by simple tools used for processing timber and metal. It can be shaped into various shapes such as curve, reverse curve, curve corner and sharp curve according to requirements of the building design. It is incomparable for other decorating materials.

Normal aluminium product processing machinery and wood product processing machinery can be used for processing of Aluwedo ACM without any special device.



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Cutting

Cutting

It can be easily processed with wood product processing saw and plate saw. It is recommended to use a hard alloy blade.



Slotting

Slotting

It is important to make the 'U' type slotting process with a distance of 0.4-5mm from the polyethylene substrate.



Aluminium Composite Panel

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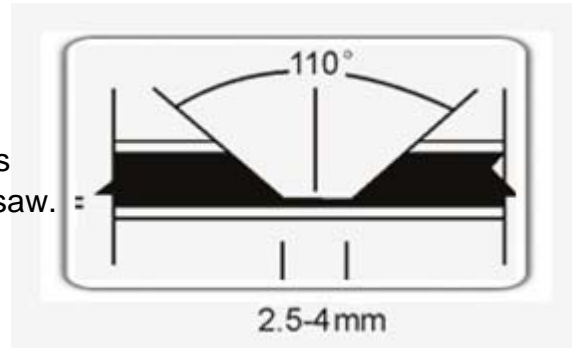
1) Milling machine and Trimmer

Use the modified drill as shown in the left chart.

Running speed: 20,000 - 30,000rpm.

Feed speed: 3 - 5m/min.

Material: Hard alloy



2) Processing a large quantity of 'U' type slots

Recommended to use a round saw and belt saw.

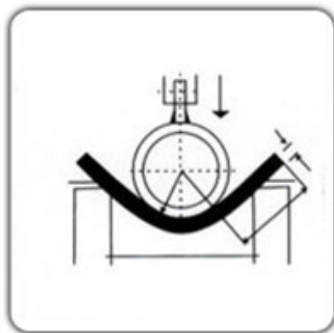
For example:

Material: Hard alloy flake

Outer diameter: 305mm

Number of teeth: 24

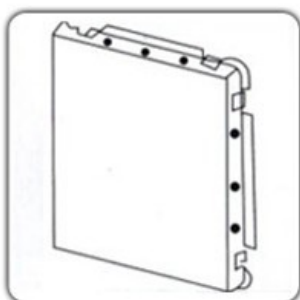
Running speed: 3,000 - 5,000rpm



Bending

Bending with 3-roller panel bender

3-roller panel bender is preferable for bending of large internal diameter to plate folder.



Riveting

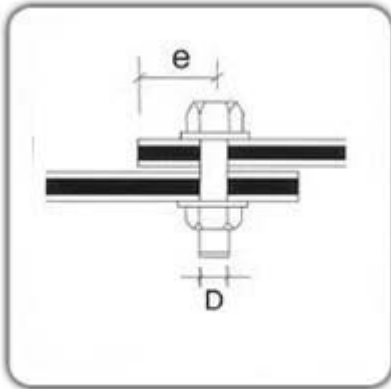
Riveting

Countersink rivet to make a joint from one direction.

ALUWEDO®
Aluminium Composite Panel

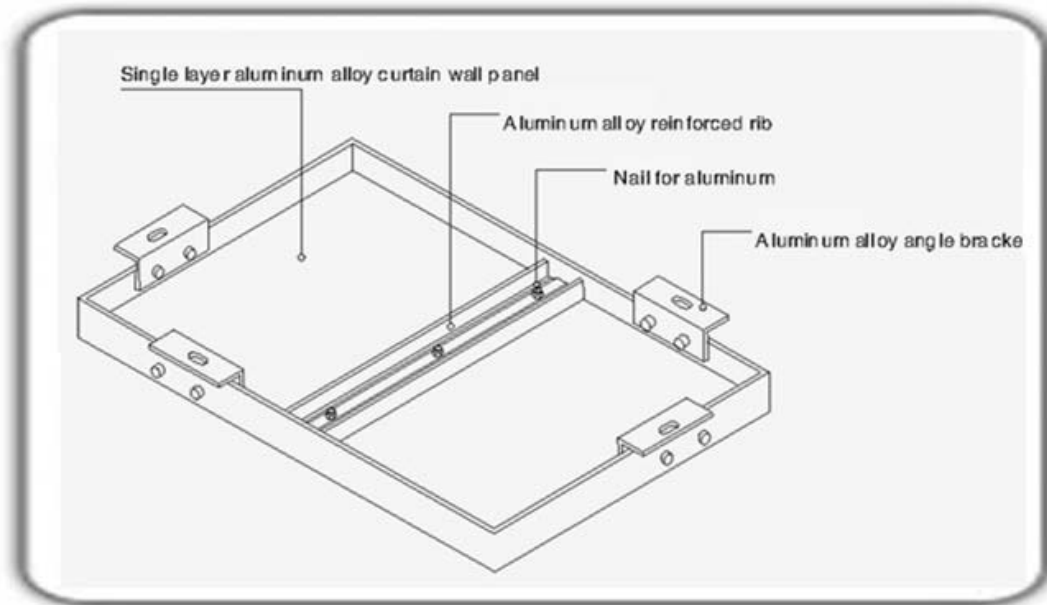
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Bolting

Considering the formation limit, the formula $e \geq 2D$ is the best calculation way of aperture D and distance from the centre hole to the plate end.



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