

castle COMPOSITES

Assembly Instructions Aslon® Terrace Substructure System

Type girder 35 x 23 mm w x h

The Aslon® Terrace Substructure System is specially developed for a universal, straightforward, and swift assembly of terrace parts, which are equipped with a groove with a minimum height of 3,5 mm and a depth of 8 mm. The system consists of a recycled aluminium girder (35 x 23 mm w x h) and a plastic clamp which is adjustable in height, with a stainless steel bolt and nut.

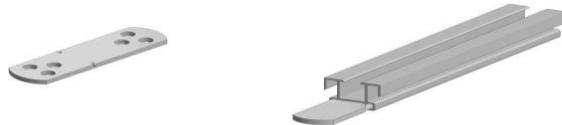


Installing the aluminium girders

Place the aluminium girders (substructure) in accordance with the assembly manual, which is prescribed by the manufacturer of the relevant terrace parts, at all times.

The coupling of the aluminium girders

The aluminium girders can be coupled using a special coupling plate. Slide this plate into the space on the underside of the girder until it cannot go in any further; you can then slide the next girder over the coupling plate. Aluminium girders expand approximately 0.23 mm at a temperature difference of 10 degrees Celsius. Allow for a minimum slack of 10–15mm between the aluminium girders and walls or fixed objects (depending on the length and width of the terrace). With larger surfaces, calculate the expansion and contraction carefully before beginning assembly.



Rubber base plate

The rubber base plate measuring 100 x 100 x 10 mm (l x w x h) is used to counter impact sound and ensures that the aluminium girder does not directly come into contact with the ground or roofing.

This ensures good drainage, ventilation, and prevents water damage.

Place the rubber base plates longitudinally underneath the aluminium girder every 300 mm.

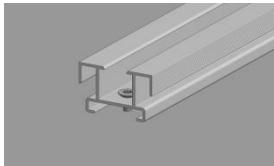


Fastening the aluminium girders

The aluminium girders can be fastened onto a surface using a dowel or a screw.

Predrill the aluminium girder with a drill bit for steel of the right diameter.

Drilling into, for example, a concrete floor, a tiled floor, or other materials is always at your own risk.



Installing the first terrace part

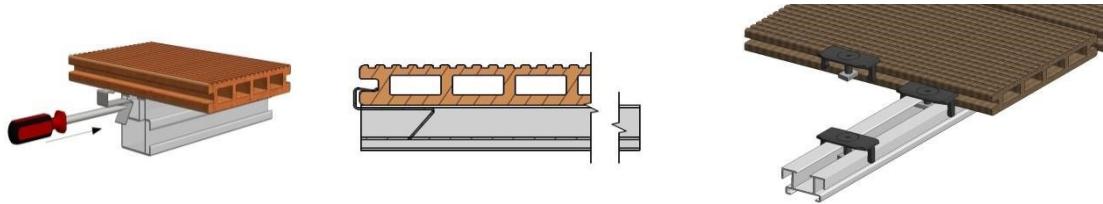
When the aluminium girders are in place, you can install the first terrace part with a screwdriver using the beginning/end clamp.

Once the first terrace part has been installed, you simply place the clamps on the profile.

Make sure that the long end of the hammerhead nut is positioned along the direction of length of the aluminium girders.

The clamp remains in the correct position because of the grip of its legs. You can now slide the clamp into the groove of the terrace part. Repeat this process for all following terrace parts.

You can now tighten the screws between the terrace parts finger tight with a special bit; use the machine's slip mode to do this.



Necessary tools

For processing the aluminium girders, you can use a handsaw, a jigsaw, or a crosscut saw (attention: use the right sawblade; consult your dealer).

For tightening the clamps, you can use hand tools or a drill. Attention: preferably use the slip mode when tightening the clamps; finger tight is sufficient.

Use a socket wrench number 13 M8 to tighten the coupling pieces and the multi-purpose angle braces.

Always use the appropriate protection equipment to process the material: goggles, hearing protectors, and a dust mask.

Follow to the safety regulations provided by the manufacturer of the power tool.

Assemble the clamps with the bolts and nuts in accordance with the manual that can be found inside the packaging.

Assembly Instructions Aslon® Terrace Substructure System

Type girder 43 x 40 mm w x h

The Aslon® Terrace Substructure System is specially developed for a universal, straightforward, and swift assembly of terrace parts, which are equipped with a groove with a minimum height of 3,5 mm and a depth of 8 mm. The system consists of a recycled aluminium girder (43 x 40 mm w x h) and a plastic clamp which is adjustable in height, with a stainless steel bolt and nut.



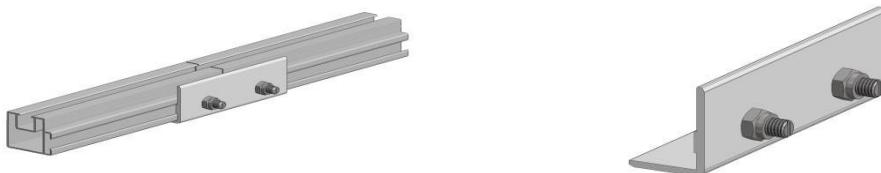
Installing the aluminium girders

Place the aluminium girders (substructure) in accordance with the assembly manual, which is prescribed by the manufacturer of the relevant terrace parts, at all times.

The coupling of the aluminium girders

The aluminium girders can be coupled using a special coupling piece.

The aluminium girders expand approximately 0.23 mm at a temperature difference of 10 degrees Celsius. The coupling piece can easily be fastened into the slot of the profile with hammerhead bolts. After this, tighten the M8 nuts. Allow for a minimum slack of 10–15mm between the aluminium girders and walls or fixed objects (depending on the length and width of the terrace). With larger surfaces, calculate the expansion and contraction carefully before beginning assembly.

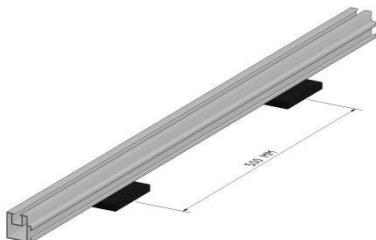


Rubber base plate

The rubber base plate measuring 100 x 100 x 10 mm (l x w x h) is used to counter impact sound and ensures that the aluminium girder does not directly come into contact with the ground or roofing.

This ensures good drainage, ventilation, and prevents water damage.

Place the rubber base plates longitudinally underneath the aluminium girder every 500 mm.



Fastening the aluminium girders

The aluminium girders can be fastened onto a concrete surface using the multi-purpose angle brace. Drilling into, for example, a concrete floor, a tiled floor, or other materials is always at your own risk.

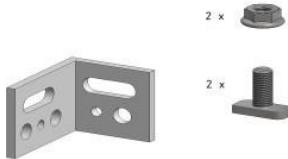
The aluminium girders can be fastened onto wood or hardwood picket constructions using the angle brace. The angle brace can be attached to the aluminium girder using a hammerhead bolt and nut, which are provided alongside the angle brace. Never use the aluminium girders as a suspended and supporting construction. For special applications, contact your dealer.



Making a framework corner joint

When the aluminium girders cannot or may not be fastened in a fixed position, a dimensionally stable framework needs to be constructed.

The aluminium girders can be joined at the corners using the multi-purpose angle brace. Use the rubber base plates underneath the aluminium girders.



Installing the first terrace part

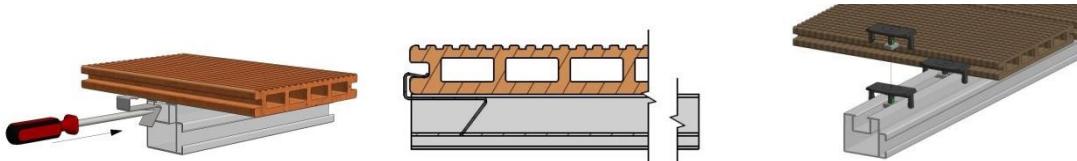
When the aluminium girders are in place, you can install the first terrace part with a screwdriver using the beginning/end clamp.

Once the first terrace part has been installed, you simply place the clamps on the profile.

Make sure that the long end of the hammerhead nut is positioned along the direction of length of the aluminium girders.

The clamp remains in the correct position because of the grip of its legs. You can now slide the clamp into the groove of the terrace part. Repeat this process for all following terrace parts.

You can now tighten the screws between the terrace parts finger tight with a special bit; use the machine's slip mode to do this.



Necessary tools

For processing the aluminium girders, you can use a handsaw, a jigsaw, or a crosscut saw (attention: use the right sawblade; consult your dealer).

For tightening the clamps, you can use hand tools or a drill. Attention: preferably use the slip mode when tightening the clamps; finger tight is sufficient.

Use a socket wrench number 13 M8 to tighten the coupling pieces and the multi-purpose angle braces.

Always use the appropriate protection equipment to process the material: goggles, hearing protectors, and a dust mask.

Follow to the safety regulations provided by the manufacturer of the power tool.

Assemble the clamps with the bolts and nuts in accordance with the manual that can be found inside the packaging.

Type girder 40 x 75 x mm w x h

The Aslon® Terrace Substructure System is specially developed for a universal, straightforward, and swift assembly of terrace parts, which are equipped with a groove with a minimum height of 3,5 mm and a depth of 8 mm.

The system consists of a recycled aluminium girder (40 x 75 mm w x h) and a plastic clamp which is adjustable in height, with a stainless steel bolt and nut.



Installing the aluminium girders

Place the aluminium girders (substructure) in accordance with the assembly manual, which is prescribed by the manufacturer of the relevant terrace parts, at all times.

The coupling of the aluminium girders

The aluminium girders can be coupled using a special coupling piece.

The aluminium girders expand approximately 0.23 mm at a temperature difference of 10 degrees Celsius. The coupling piece can easily be fastened into the slot of the profile with hammerhead bolts. After this, tighten the M8 nuts. Allow for a minimum slack of 10–15mm between the aluminium girders and walls or fixed objects (depending on the length and width of the terrace). With larger surfaces, calculate the expansion and contraction carefully before beginning assembly.



Mounting plate

The mounting plate is used to easily fasten the girders onto a construction of wood or hardwood posts. When the wood or hardwood posts in the ground are at height, you can fasten the mounting plate onto the posts using two coach bolts or wood screw bolts (coach bolts or wood screw bolts are not included).

After this, you can place the girder on the mounting plate, and secure it with the hammerhead bolt and nut. You can install the hammerhead bolt at any place you wish on the girder.

Attention: this is no longer possible at places where a coupling piece has been installed.



Installing the first terrace part

When the aluminium girders are in place, you can install the first terrace part with a screwdriver using the beginning/end clamp.

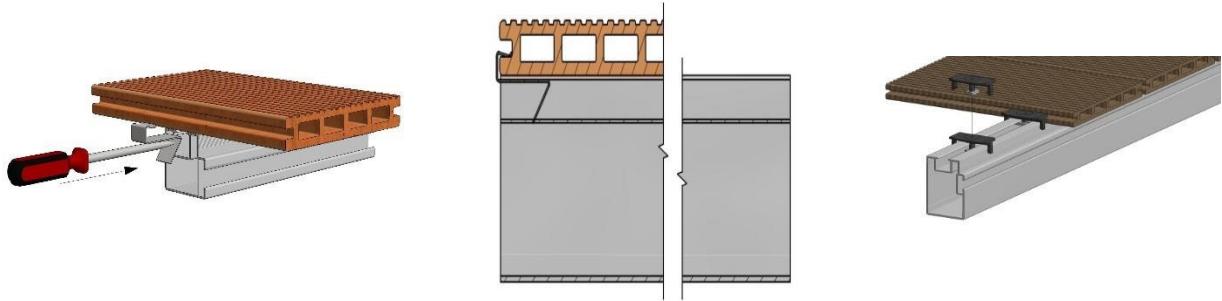
Once the first terrace part has been installed, you simply place the clamps on the profile.

Make sure that the long end of the hammerhead nut is positioned along the direction of length of the aluminium girders.

The clamp remains in the correct position because of the grip of its legs. You can now slide the clamp into the groove of the terrace part. Repeat this process for all following terrace parts.

You can now tighten the screws between the terrace parts finger tight with a special bit; use the machine's slip mode

to do this.



Necessary tools

For processing the aluminium girders, you can use a handsaw, a jigsaw, or a crosscut saw (attention: use the right sawblade; consult your dealer).

For tightening the clamps, you can use hand tools or a drill. Attention: preferably use the slip mode when tightening the clamps; finger tight is sufficient.

Use a socket wrench number 13 M8 to tighten the coupling pieces and the multi-purpose angle braces.

Always use the appropriate protection equipment to process the material: goggles, hearing protectors, and a dust mask.

Follow to the safety regulations provided by the manufacturer of the power tool.

Assemble the clamps with the bolts and nuts in accordance with the manual that can be found inside the packaging.