



WALCOOM

Walcoom Corporation



ALUMINUM FORMWORK

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"Better quality, efficient construction and cost saving."

What Walcoom has been proud of for 20 years is the enterprise spirit of continuous research and development. We provide a whole aluminium formwork system for builders all over the world. Professional design team can offer the best combined solutions of aluminium formwork. High quality raw materials ensure the stability of aluminium formwork system. Technical supporting protection the whole operation of aluminum formwork.

Aluminium formwork system is a new generation green formwork technology which can definitely lead the trend of development of formwork industry. Compared with the previous building formwork, it is light weight and high strength, low average cost and high project quality. More and more construction builders favor aluminum formwork system.



Feature

- **High bearing capacity, good stability**, the data show that the flexural strength of aluminum alloy profiles even higher than ordinary steel. The bearing capacity of most aluminium formwork system can reach 60 kN/m². It can sufficient to meet the requirements of the bearing capacity of most residential buildings.
- **Simple operation**, with weight of 18–22 kg, workers can install or remove the aluminium formwork by hand, each worker can install 20–30 m² per day yet no need for lifting tower. It doesn't need skilled workers since the elaborate design ensure the safety of aluminium fromwork system.
- **Efficient construction, high project quality**, aluminium formwork system is early stripping formwork system which can ensure that each layer of the construction cycle control within 4–5 days. It owns one set of formwork, three sets of supporting replace three sets of formwork and supporting of plywood formwork. With finished smooth surface allows without the need for extensive plastering.

- **Standard, versatile**, the precise-designed formwork system with little measurement error and high accuracy applies to all kinds of building elements, such as the main wall, column, beams, stairs and balconies. When using a completed project to rebuild a new building, only 10%–20% of non-standard formwork need to be replaced.
- **Independent support system**, the gap between the formwork support is totally enough for passing, moving and pulling.
- **High reuse rate, low average cost**, cycle time can be approximately 300 times, this greatly reduced the overall construction costs.
- **Environmental protection, high recycling value**, full aluminium productive process leads to no galvanization and thus to reduce the pollution of our earth. It is still have a high recycling value when the aluminum template is scrapped, several times higher than steel.

Specification

- **Name:** Concrete formwork, modular aluminium formwork system for building.
- **Material:** 6061 - T6/6082 - T6 aluminium alloy.
- **Thickness of material:** 4 mm.
- **Prop material:** Q235, Q345 steel.
- **Type:** Aluminium alloy formwork, supporting and fastening system, accessory system.
- **Formwork weight:** 18–22 kg.
- **Thickness of formwork:** 65 mm.
- **Safe working load:** 60 kN/m².
- **Cycle times:** ≥ 300.
- **Shape:** Rectangular, customized.
- **Size:** 0.5 m–11.85 m, custom-made as your requirement.
- **Process:** Drilling, bending, welding, precise cutting, punching, etc.
- **Standard:** EN 755 - 9, GB/T 6892-2015, JGJ 386-2016.
- **Color:** Silver white.
- **Package:** Standard pallet with waterproof film, or according to your requirement.

Formwork components

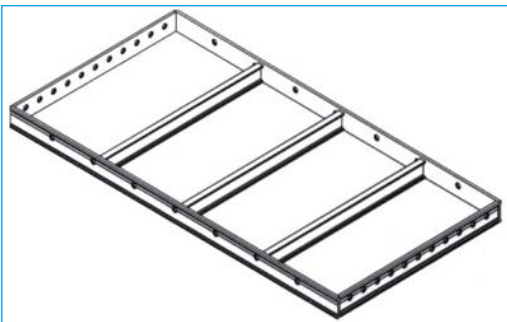
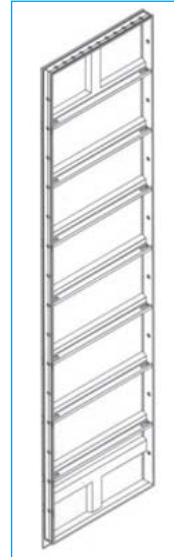
Wall panel (W)

600/500/450/400/300 × 2450 mm.

Maximum weight: 28 kg.

Thickness: 63.5 mm.

Application: wall panel and cylinder panel components, have both standard and non-standard type.



Slab panel (SP)

600/450/400/300 × 1200 mm.

Maximum weight: 13 kg.

Thickness: 63.5 mm.

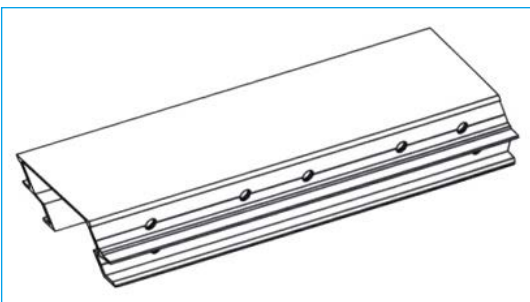
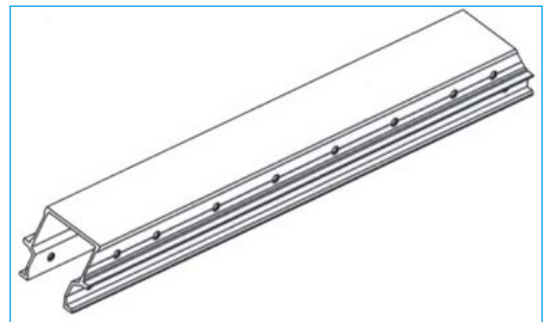
Application: used to support the concrete weight during concrete pouring and casting.

Middle beam (MB)

Size (mm): 900/1150/1300 (L) × 150 (D) × 125 (H).

Maximum weight: 9 kg.

Application: joint the prop head and middle beam.



End beam (EB)

Size (mm): 600/900/1150/1300 (L) × 150 (D) × 125 (H).

Maximum weight: 9 kg.

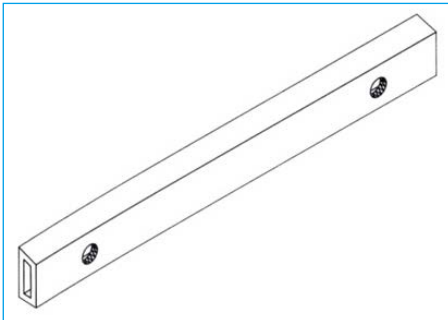
Application: joint the prop head and slab corner.

Slab corner (SC)

Size: 125 mm (H).

Maximum weight: 6.58 kg/m²

Application: connection between wall panel and slab panel.



Joint bar

Size: 210 mm (L).

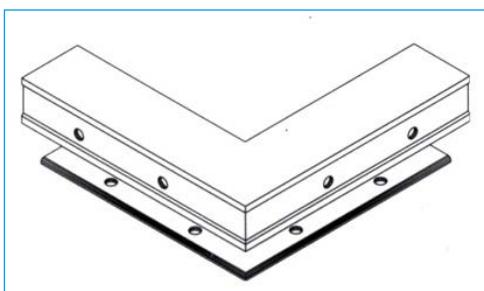
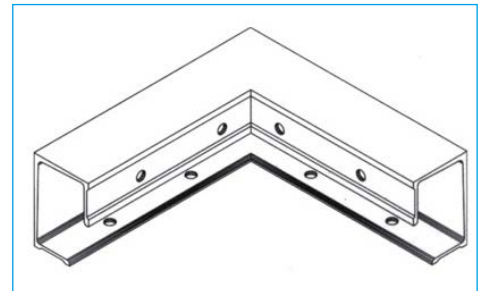
Maximum weight: 0.68 kg.

Application: joint the prop heads with the beams.

Slab inner corner

Size: dependent upon each structure.

Application: connection between wall panel and slab panel of inner corner.



Slab outer corner

Size: dependent upon each structure.

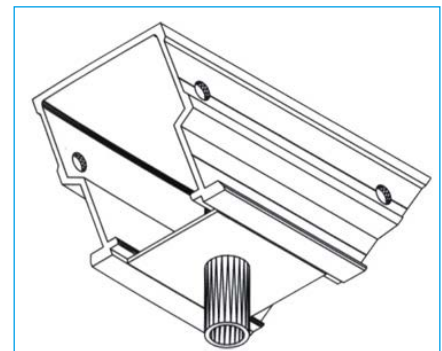
Application: Connection between wall panel and slab panel of outer corner.

Prop head (PH)

Size: 150 × 300 mm.

Maximum weight: 2.5 kg/m².

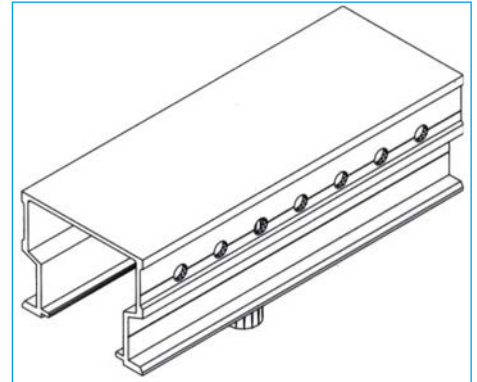
Application: joint the beams together, the pipe support will be placed under the prop head.



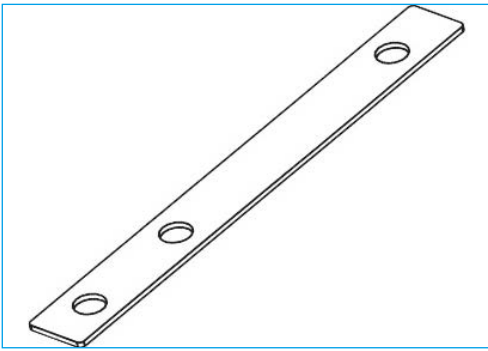
Special prop head

Size: dependent upon each structure.

Application: joint the beams together this special prop head will be placed where a normal prop head cannot be installed.



Formwork accessory

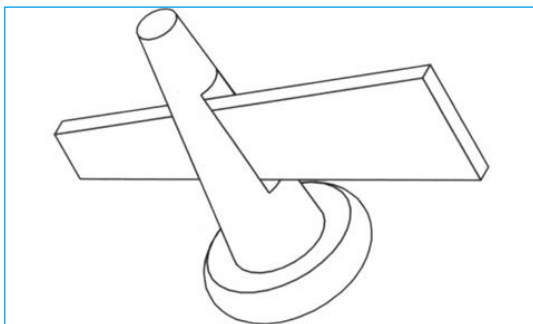
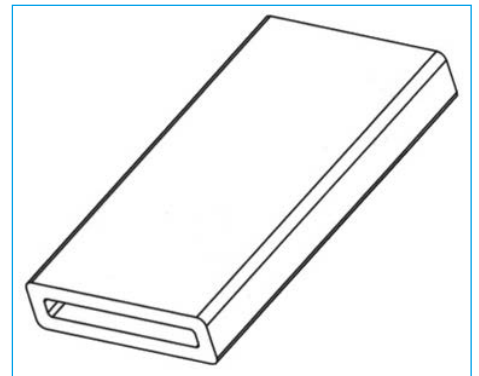


Flat tie

Application: joint the wall panel to the opposite side's wall panel. Depending on the wall panel's height, the number of flat tie used will vary.

PVC sleeve

Application: the flat tie will be inserted inside to protect the flat tie to be casting by the concrete.

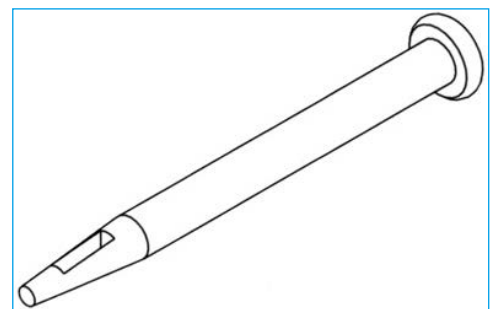


Stub and wedge pin

Application: interlock each wall or slab panels together.

Long pin

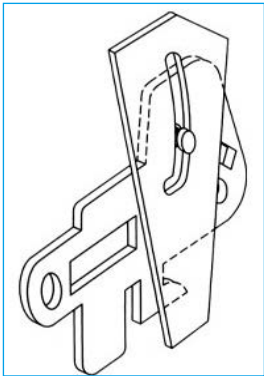
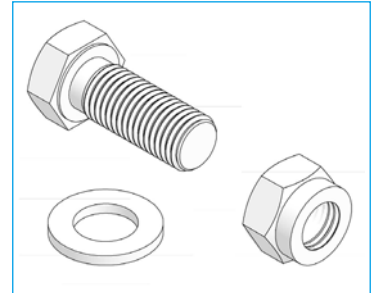
Application: interlock the prop head and beams together.



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Bolt, nut, washer

Application: firm panels on the concrete surface during its installation.



Waller bracket, square pipe

Application: ensure the horizontal straightness of wall panels and a flat wall surface (especially at the bottom) after concrete casting.

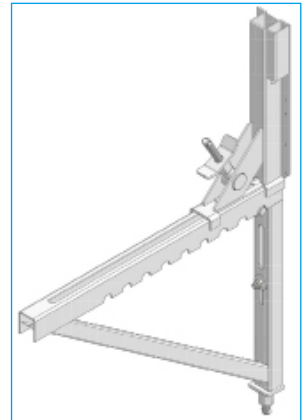


Steel support

Application: used to support the weight of the slab during concrete pouring and casting, adjusting the verticality and horizontality.

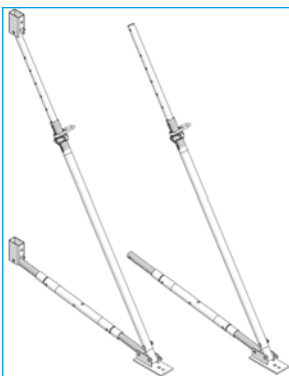
Wall platform

Application: fixed on the concrete, used as working platform for workers.



Crossing bolt

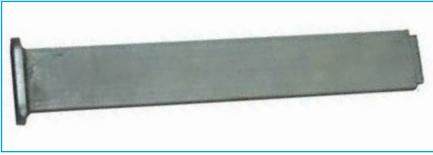
Application: fixing inner and outer wall panel, in case any wall distortion.



Diagonal bracing

Application: used to adjusting the verticality and horizontality.

Formwork tool



Sleeve remover



Panel puller



Hole bari



Hammer



Steel tape

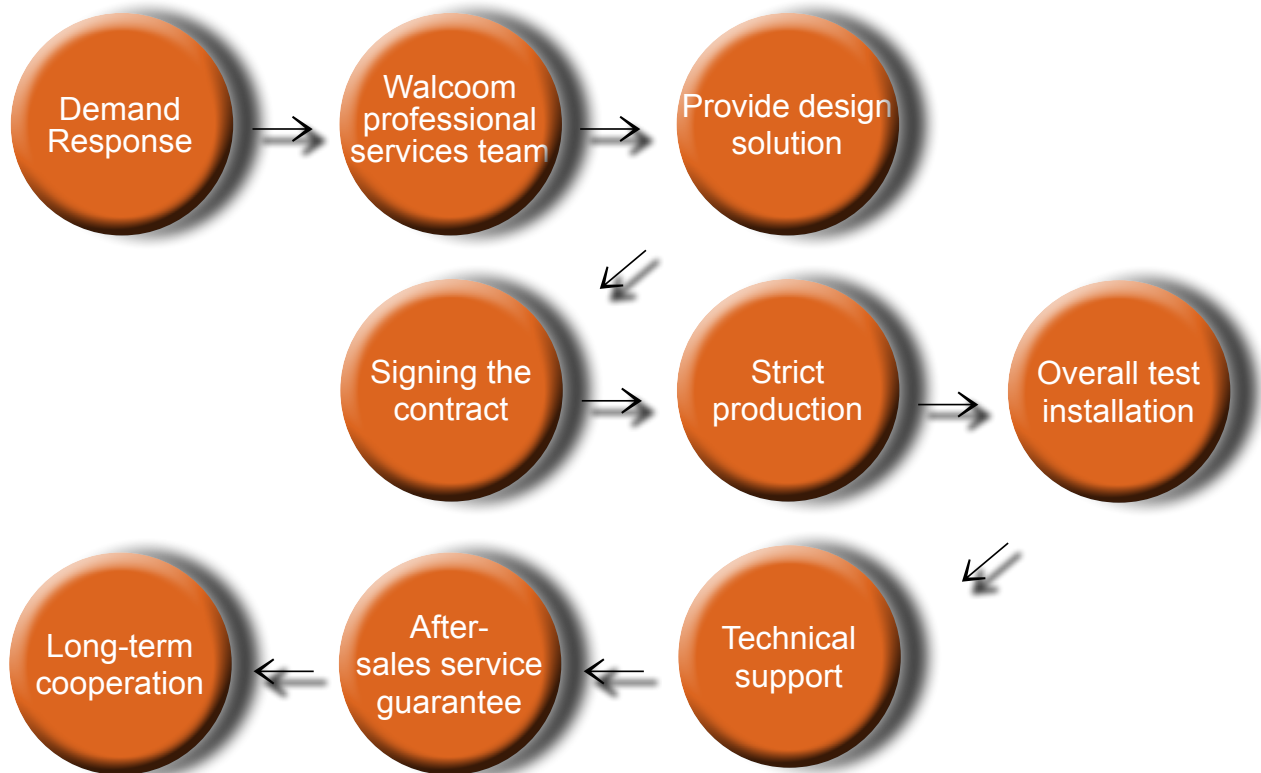


Work bench



Pretreatment mould oil

Walcoom service process



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Practical application of aluminium formwork system



Construction site of aluminum formwork system

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