Dscaff

Stair Formwork

engineering the next step

Traditional Method

Traditionally, stairs have been formed using plywood and timber bearers requiring skilled carpenters.

The challenges include:

- Single use plywood increasing hidden costs of materials, disposal and housekeeping.
- Uneven stair dimensions creating a trip hazard and failure to comply with building regulations.
- Stairs follow many floors behind the construction level so temporary access is required.

The Engineered Solution

Stairform is an off-site, pre-fabricated, pre-galvanised steel form, designed and engineered to be an integral part of the building, once the concrete has been poured.

Dscaff designs, fabricates and supplies the Stairform complete with the reinforcement bars & permanent handrails.

This method significantly increases the speed of construction and reduces the need for temporary works as well as eliminates the wastage of material.

Fabrication

Stairform is individually customised to your projects requirements.

- Up to 18 stairs in single form.
- Width from 1.0 - 2.4m.
- Pre positioned handrail brackets installed.
- A variety of handrail options are available.

Transport And Delivery To Site

One of the greatest benefits with prefabrication is that, Dscaff will follow your project schedule to ensure "On Time" deliveries.

You will be able to plan the logistics more efficiently to minimise site congestion and you will not need to pay for excess and unutilised material.

Installation

Once on site, the bundles of Stairforms are separated and the handrails are installed. Lifting of the Stairform and Handrail into the Stair shaft can be achieved by using site cranage or chain block.The Stairform rests on the lower and upper landing on purpose designed “lips”. A normal flight of Stairs of 9-10 risers only requires one perpendicular support to the concreted stair below, significantly reducing the shoring requirements compared to conventional methods.

Tie-bars or Lapping Bars are then added to join the Stairform reinforcement bars to the reinforcement bars on the top and bottom landings. The next step is concreting, using a slightly thicker mix, start by pouring the bottom slab and working your way up the stairs and finishing off the pour with the top landing, trowel each step level using the steel risers as a guide.

Anti slip nosing to your clients design is achieved once the concrete cures sufficiently to hold the imprinted design. Note that the steel riser folds back into the stair by 12mm to create a solid nose.




Finishing

The exposed steel form can be finished using paint in accordance with the clients requirements.

Compliance -IBS –Integrated Building Systems

In line with our Governments “Blue Ocean Strategy” to transform our Construction Industry to a sustainable and industrialized sector, our Stairform product has IBS Certificate from CIDB.

Project references

TRX – The Exchange Mall
Lendlease / WCT

TRX – The Residences
Lendlease / IJM

TRX – The Office and Hotel Plot
Lendlease / WCT

Testimonials

Lendlease, TRX Residences

We have used the Stairform product on many previous projects in Australia and were very pleased to find out that Dscaff supplies this product locally and regionally.

The most significant reason for using the Stairform product is the safety advantages over traditional methods. It is an obvious choice to use Stairform on any medium to high-rise projects as Stairform provides safety, quality and speed of installation which are our driving factors.

Craig Peterson - Lendlease Projects Malaysia

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