

Floodlit Enterprise (M) Sdn Bhd
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FBS

Fast Building System
the ultimate building construction method



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Introduction of FBS the Fast-Building-System for the building construction industry

A revolutionary method, the Fast-Building-System (**FBS**) can help the building construction industry enormously in the saving of construction time and cost. The **FBS** is a highly engineered construction method for the slab-wall structure of buildings.

The **FBS** is a system which combines the use of in-situ cast shear walls produced by steel wallform with precast half slab flooring. The precast half slabs are used as permanent formwork over which in-situ structural topping is added.

The entire building structure is structurally tied together, hence it is structurally robust and there is no problem of leakage or seepage.

The **FBS'** biggest advantage is that it allows work to continue immediately the next day after in-situ topping. Unlike the conventional full-height in-situ concrete floor, no time is wasted for curing and idling of wallform. There is no more erection and stripping work for soffit formwork and shoring.

Steel wallform and precast half slabs must be used together as a system to gain the benefits of high construction speed.

From project drawings, Floodlit's engineers will work out the optimal arrangement of the wallform and half slabs mould requirement. Thereafter, the cost of investment for the formwork and moulds for the project will be presented to our customer for consideration. Our engineers will work closely with the project consultant and structural engineers to ensure that our supplies are adequate for the project.

Advantages of FBS

- Phenomenal construction speed
- Overall cost saving
- Less labor on site
- High quality concrete surfaces
- Earlier access by following trades
- Less dependence on weather conditions



Steel Wallform

The steel wallform is assembled from modular metal form panels together with walers and plumbing frames with minimum use of bolts and nuts. It is flexible, needing only simple modification for re-use in other future projects. In practical use, records have demonstrated that our steelforms are durable and very cost effective.

The metal form is fabricated of 3 mm thick steel plate.

Standard width of metal form is 300, 600 and 1200 mm, whilst the height is custom made to suit each project's requirement.

The allowed maximum concrete pressure is 80 kN/m² or concrete placement rate of 5 meter per hour.

The approximate weight of an assembled 3-meter panel module is 1.1 ton that can be easily handled and relocated by crane on site.

Steel wallform is suitable for in-situ casting of straight shear walls or room walls construction. Our special design for the inner corner panel allows easy dismantling of enclosed wall formwork.

The steel wallform is supplied with either the economical fixed strut frame complete with jack base or adjustable props (optional) for plumbing adjustment.

Advantages:

- Very efficient and cost effective
- Simple and easy to use
- A daily casting cycle is achievable after the learning period
- High quality concrete wall surfaces
- Only required simple modification for reused in other projects



Steel moulds for the manufacturing of precast half slabs

The precast concrete half slabs are cast in steel moulds to the required dimensions and quality of concrete surface.

Depending on the design strength of half slabs, it may or may not require temporary propping before in-situ topping or other live load is added on the top of slabs.

The major benefit of using half slabs is the speed of erection. It can be as fast as 1000 m² per day. The use of precast floor system can save up to 30% on construction time of a project according to the NPCAA (National Precast Association Australia). The half slabs system is a viable and cost effective alternative to conventional timber soffit formwork.

To reap the full benefits of fast flooring erection, it is essential to have an equally fast method for wall erection. This can only be accomplished by using steel wallforms.

From project drawings, our engineers will design the steel moulds to incorporate all the necessities and holes for services into the slabs. The precast operators' main concerns for productivity and concrete quality are the major considerations in our mould design.

The precast production operation for the half slabs may be carried out off-site or on-site. We are obliged to install the moulds at the site of your choice.

Advantages:

- Substantially shortened project construction time
- Smooth and precise soffit finish, ready for direct coating after minimal preparatory treatments
- Earlier access by the following trades.
- No disposal problems unlike conventional timber formwork

