



STAIRFORM is a prefabricated galvanized light gauge steel mould which is custom made to assist in producing a Fire Escape staircases for high rise buildings without wasting net lettable floor space.

The form is at its most economical when the Fire Escape staircases are housed within a concrete shaft.

This allows loads from the staircases to be transferred at the landings into the side walls without introducing beams.

The concrete side walls will also act as a support for floors.

The concrete side walls will also act as a fire barrier as required by the Fire Code

By using STAIRFORM in the Fire Escape staircases, a developer will avoid extra costs such as

- (1) Tiling to treads and risers
- (2) Hacking into staircases for handrail post connections
- (3) Plastering staircase soffits
- (4) Using space in the Fire Stairs which is not required.

By using STAIRFORM within a concrete shaft, the construction cycle can be accelerated because the staircases are prefabricated so they can be easily lowered into position for next day concreting

Please examine the attached architectural and structural drawings which show 2 Fire Escape staircases within one concrete shaft. This design complies with the Fire Code in respect of two separate means of egress but it only uses one shaft. There is a separating spine wall between the two staircases which is constructed out of precast concrete. This has proven to be the most efficient method of construction and can comfortably fit into a 4 day construction cycle.

- (A) Day 1 : Open shutters and climb the Jump Form to next floor level; clean & set system.
- (B) Day 2: Steel Fixers commence placing reinforcement into core walls.
Formwork Installed to Landings (morning activity)
Lower STAIRFORMS into position (30 minutes)
Lower Precast concrete spine wall lowered into position (30 minutes)
Fit prefabricated handrails to Stairform
- (C) Day 3 : Complete steel fixing to Lobbies & landings
Pour concrete to stairs, landings and lobbies
- (D) Day 4 : Pour concrete to core walls

This cycle can be slowed down when it becomes apparent that the floors cannot keep cycling at the same pace but it takes the core with the stairs and the lobbies off the critical path.

Our specialty is the staircases but to be most effective, it is best to be involved in the design of an efficient concrete structure. We can refer you to very capable value engineering consultants who will assist your consultants in bringing together an efficient concrete structure.

Yours sincerely,

Manager STAIRFORM Aust P/L