



Improved Safety

Reduced Programme

Design Flexibility

Ease of Construction



Verteka PSF brings programme, construction and HSE value to entire multi-storey project scope;

Improved Site Safety

Work at height must inevitably occur in the construction of multi-storey buildings. With PSF however, substantially all related steel fixing and shuttering is undertaken in safe, factory conditions, eliminating time spent at height for the equivalent site trades.

PSF panels are safely positioned from ground or slab level. Moreover, as a finished system, PSF panels do not require any formwork striking. Any necessary work at height, if required, is minimized. The PSF system is designed such that temporary works at height, including loading and unloading of the panels, are de-risked or eliminated.

- **Steel fixing and shuttering undertaken in factory conditions**
- **Reduced work at height**
- **Limited scaffolding requirement**
- **Concrete requires no vibration**
- **Platform access pre-installed**

Reduced Programme Time

Early adoption of Verteka promotes reduced building periods and shortened overall project programmes. The potential accelerated construction may allow earlier access for following site trades, reduced contractor preliminaries and provide the developer earlier opening opportunities.

Where necessary, late substitution of Verteka is also straight forward, as PSF is effectively an insitu RC wall comprising reinforcement and concrete. At a minimum, PSF's speed of installation lends itself to reducing the risk of superstructure programme overrun.

- **Position typical 8 person lift core (2m x 2m box) in ½ hour**
- **Immediate release of PSF panels frees up crane time**
- **Typically reduce durations of associated activities by 80 %**
- **Case Study: 7 storey RC frame achieved 3 week construction time savings utilising PSF cores**

Enhanced Construction Efficiency

Verteka PSF walls, cores and columns are quickly and accurately positioned, using typically only 2 to 3 labourers. The patented vertical continuity system allows quick release of incoming panels, thus promoting efficient usage of the site crane and related resources

As PSF can be constructed via single sided access, site obstructions such as Party Walls or similar obstacles are now easily overcome. Likewise, the ability to immediately position PSF panels will free up valuable site lay down and working areas.

- **Build 'inches' from party walls**
- **Openings pre-formed**
- **Minimal, if any propping required**
- **Installation undertaken by 2 to 3 labourers**

Design Flexibility

PSF interfaces with equal ease on concrete frame, steel frame and pod based structures. Fabrication of the basic PSF panel is autonomous of the building type, allowing early specification with minimal adjustment to accommodate chosen frame. Cost certainty is achieved as the economics of PSF is fundamentally independent of building type.

Verteka work with the designers, analyzing proposed loadings on respective walls and cores and confirm performance of the proposed PSF panel. Verteka PSF performs like for like with respect to standard insitu concrete walls for normal project loads.

Verteka design team's familiarity and dedication to structural walls, cores and columns will bring valuable insight and experience to a project. By way of example, Verteka have fast tracked the design of many lift overrun modules, with the benefit of working relationships with most major lift fabricators.

- PSF available in 200 mm through to 350 mm thickness
- Single storey height panels up to 10 meters in length
- Equivalent to Insitu RC performance specification
- Straightforward substitute for insitu RC walls, cores and columns
- Prefixing of items can be designed into PSF panels
- Bespoke individual PSF panels to cater for specific site based irregularities or obstructions.



Interface with following trades

Verteka PSF presents a ready to decorate finish and a noticeably flat surface. The material make up of PSF's permanent shutter is such that it can accept a simple 3 mm plaster skim coat. Direct application of paint is also possible. The cementacious board also lends itself to rapid and simple fixing for dry lining brackets, dot and dab etc. Application of exterior finishes is equally straightforward.

Steel embedment plates, shelf angles and most fixings, where known at time of design, can easily and accurately be factory installed with in the PSF panels. This allows for rapid progression of interfacing site trades. Likewise openings and penetrations can be pre-formed in PSF panels. As PSF is characteristically insitu concrete, site based cutting and penetrations are as straightforward as that of standard RC concrete.

- Pre-attached shelf angles for immediate placement of stairs
- Pre-install embedment plates
- Preformed openings
- Square, Plumb core walls
- Flat finish surface promoting ease of decorative application
- Panel manufactured for robust slab tie-in
- 'Kwik-a-strip' style continuity strip available

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