

# INTRODUCING OUR... ARCHITECTURAL & STRUCTURAL SOLUTIONS



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Precast concrete crosswall construction is a fast, convenient way to produce multi-unit structures such as hotels, education, student, secure and health accommodation, private and social housing in a fraction of the time of traditionally built structures.

It has all the advantages of a factory engineered system including ISO 9001 and ISO 14001 (or equivalent Euro Code) quality assured production and provides a highly flexible layout. It can be tailored to meet the needs of the client, architect, engineer and builder.

At FP McCann, we believe in working with you as a partner from the start, which means offering our expertise in designing and manufacturing rooms to suit every individual project. Far from being an off-the-shelf solution, our architectural and structural solutions are made-to-measure, whilst maintaining our design philosophies and standard details.

All units are manufactured off-site and delivered to site ready for final preparation and decoration. All sections are designed for ease of construction, fitting together to conform fully with building and structural regulations. Also, since the windows can be fixed in the factory, internal trades can commence work far earlier than on a traditional building site. All this to ensure peace of mind for you when you partner with us.

## INSULATED PRECAST SANDWICH PANELS

FP McCann's insulated precast sandwich panels provide a ready-made external envelope with a variety of finishes; Acid Etched, Grit Blasted, Polished, Exposed Aggregate, Pattern Imprinted and inlay of surface materials such as natural stone, bricks or ceramic tiles. This eliminates many of the pitfalls associated with traditional building methods utilising wet trades. The panels are constructed off-site and comprise an outer leaf of precast concrete, an insulating layer and a structural inner leaf of grey concrete with a power floated internal finish. The external skin is connected to and supported by the internal skin using proprietary fibre composite connector ties. The ties have a low thermal conductivity which eliminates potential cold bridging.

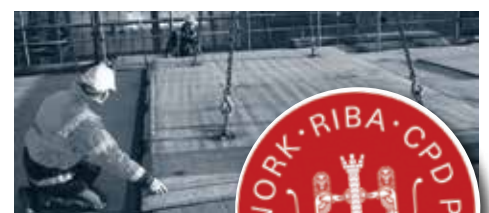
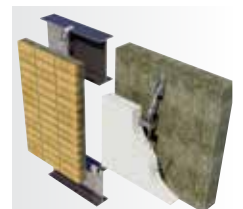
We can modify the thickness of the insulation in order to accommodate the required U-value. Shape, thickness and size of the concrete can also be made to meet the requirements of the project. Insulated sandwich panels can be used to drastically reduce erection periods and on-site safety hazards for any crosswall project. The ability to fit various facades, windows and insulation during manufacture reduces the need for numerous follow-on trades and eliminates the need for scaffolding. In addition to sandwich panels, FP McCann can also offer single leaf precast cladding elements that can be fixed back to a precast, in-situ concrete, or steel building frame. The cladding panels can be either 'stacked' from the foundations, or fixed back individually, on a 'floor-by-floor' basis.

## BRICK-FACED LINTELS AND SOFFITS

Recessed openings and deep reveals have become increasingly popular design features, creating depth within an elevation and giving additional visual flare to a facade. Precast concrete with cast-in brickwork is often used as a cladding material, especially in feature areas that, at times, can be perceived as difficult or complex to treat. Features may range from a contemporary stretcher bond lintel to deep brickwork returned soffits which give extra depth to an opening.

FP McCann's brick support solutions provide structural reassurance that meet the required aesthetics, yet gives the impression of unsupported brickwork whether its a bearing lintel or a supported soffit.

Precast concrete brick-faced lintels provide an excellent robust masonry support solution around door and window openings, whilst maintaining the effect of brick bonding throughout a facade.



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# BOOK YOUR CPD SEMINARS



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Our CPD seminar provides a clear understanding of how FP McCann's precast concrete crosswall construction is designed, manufactured and installed on site to form various accommodation projects such as hotels, student accommodation, apartments and custodial. We discuss how a precast solution can bring a host of benefits to your project such as speed, durability, high quality, excellent fire resistance properties and acoustic performance, sustainable benefits etc. The seminar also explains the use of architectural precast sandwich panels and shows the variety of finishes and colours available.

**PLEASE COMPLETE THE FORM BELOW AND EMAIL TO JULIE CAGNA**  
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Title                    Mr.  Mrs  Miss  Ms.  Dr.

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