

CFS Precast

A MEMBER OF THE CFS GROUP

FROM STRENGTH TO STRENGTH



Our Mission: To grow an innovative business into Ireland's leading construction solution provider and be recognised as the main **concrete specialists** by industry professionals in our territories.





“We are experts in the manufacture of precast floor, wall and construction frame elements for large scale commercial, residential projects and civil engineering projects”.

Tim McNulty, Managing Director CFS Precast

FOREWORD FROM TIM MCNULTY

Welcome to CFS Precast Ltd.

Established in 1969 the CFS Group is a family business which has, over the last thirty years, grown to be one of Ireland's most successful construction contracting companies. In recent years our group has expanded dramatically and 'CFS Precast' is the jewel in our crown.

With one of the most advanced production systems in Ireland and the UK, CFS Precast benefits from an investment in 'state of the art' technology and production design. We play an active role in building a highly skilled team of professionals with respect for quality and high production values. By combining top class people, a wealth of experience and the best technology available, CFS Precast has forged the expertise and vision to sustain its success far into the future.



Tim McNulty, Managing Director CFS Precast Ltd.

Precast construction is faster, stronger, more sustainable, more fire resistant and has higher sound control than traditional construction methods.



WHY CFS PRECAST?

Our Precast concrete products are cast in moulds in a factory setting. These products benefit from a much superior quality control which is achievable at a production plant. CFS Precast specialises in Wide Slab Floor and architectural Façade Systems.

Achieving Sustainability With Precast Concrete

Timelines: Off site production shortens project time, allowing earlier occupancy.

Safety: Superior fire resistance and sound control.

Strength: Precast concrete is capable of higher strength which allows for long clear spans making it especially applicable to structures requiring large open spaces.

Sustainability: Precast concrete has many environmental benefits during construction and for the life of the structure.

Superior Finishings

- Achieved through a controlled environment.

Programme

- Modular units which reduces size and erection time.

Waste Minimisation And Energy Performance

- Reduces the amount of material used and the toxicity of waste materials.
- Less community disturbance.
- Energy Performance: Precast concrete acts as an air barrier, reducing air infiltration, and saving more energy.
- Optimal insulation levels can be incorporated into precast concrete panel walls.
- Less dust and waste is created at the construction stage.

Precast Concrete Energy-Efficient

The thermal mass of precast concrete absorbs and releases heat slowly, shifting air conditioning and heating loads to allow smaller, more efficient heating, ventilating, and air conditioning (HVAC) systems. The resulting savings are significant on heating and cooling costs.

See image below for inner and leaf wall definitions:

- A:** Façade
- B:** Cavity
- C:** Insulation
- D:** Damp Proof Course
- E:** Internal Leaf





CFS PRECAST PRODUCT RANGE

CFS provides a wide range of concrete products for the construction sector. Although this is mainly in the area of Wide Slab Flooring and Façade Systems our expertise comes from taking existing designs and construction plans and re-evaluating them to develop different solutions with the aim to maximise efficiency, production methods and reduce costs.

CFS Precast Ltd provide precast concrete products for the following:

- Housing.
- Hotels.
- Security Facilities.
- Office Buildings.
- Warehouses.
- Airport Terminals.
- Tram Lines.
- Hospitals.
- Shopping Malls and more.

CFS Precast Work

- Wide Slab Flooring :-

Includes special design flooring e.g. Luas Tram Viaduct.

- Façade Systems :-

We have special Façade Systems from brick finish to selective coloured rendered and polished concrete.

Units can be finished in a wide range of colours and textures.

Precast Systems

- Brick faced.
- Coloured rendered faced.
- Natural stoned faced.
- Precast lift pits.
- General precast walls.
- Precast columns, beams etc.

CFS PRECAST QUALITY ASSURANCE

The most important element for Precast is maintaining quality throughout the design and manufacturing process. All designs are signed off and approved by the client before manufacture.

We are dedicated to achieving the highest standards on all areas of our business and strict quality control measures are implemented throughout the manufacturing process. All of CFS Precast's components are designed in accordance with BS8110.

NOTE: All quality control systems are fully traceable to each individual product, date, time and type used.

All technical information is supplied to the contract.





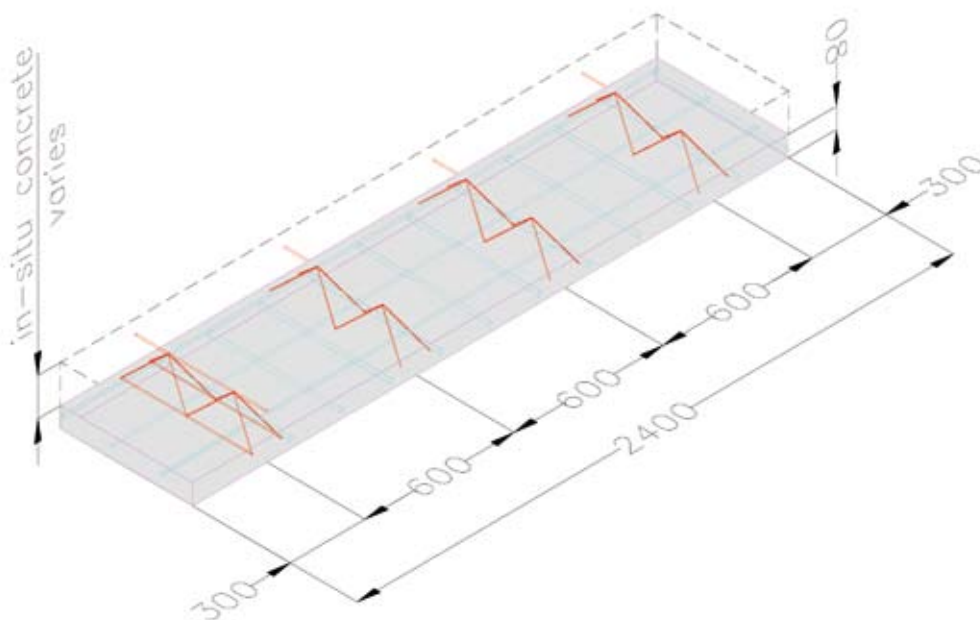
CFS PRECAST ARCHITECTURAL CLADDING

Design from Concept to Erection

- Precast architectural cladding provides a very cost effective alternative to the traditional brickwork exterior cladding system. Brickwork faced cladding panels achieve the desirable appearance of traditional brickwork, without the significant costs associated with traditional methods.
- A precast architectural cladding solution is ideal where there is a high degree of repetition along large façades. Typically, this system is most economical on buildings such as residential apartments, commercial office buildings, multi-storey car parks and other large buildings such as schools and hospitals.
- Schemes are developed in close communication with the client and/or their representatives, from initial panelisation sketches through to full general arrangement drawings.
- Precast architectural cladding panels are all bespoke designed in accordance with BS8297 and BS8110 using the latest finite element analysis and design software.
- All panels are cast horizontally on state-of-the-art tilting tables which eliminates unwanted handling stresses.
- All permanent fixings for both restraint and support are provided in high quality stainless steel as standard.
- All handling accessories are provided in high quality stainless steel as standard.

CFS Precast Flooring Load Tables

Slab Depth (m)	Weight (KN/m ²)	Max Single Span (m)	Max Multi Span (m)
150	3.6	4.1	5.2
175	4.2	4.95	6.0
200	4.8	5.75	7.25
225	5.4	6.5	8.2
250	6.0	7.2	9.1
275	6.6	7.9	10.0
300	7.2	8.55	10.5



NOTES:

- 1 Units are designed in accordance with BS8110.
- 2 0.5KN/m² dead load allowance for finishes/services.
- 3 1.0KN/m² live load allowance for partitions.
- 4 Imposed live load = 1.5KN/ m².
- 5 Greater spans can be achieved with increased slab depth.
- 6 Lighter slab weights can be achieved using lightweight void formers.
- 7 This table is intended as a guide only. The load span for each project is designed on an individual bases and may vary from this table.



CFS PRECAST PRODUCTION

CFS Precast has one of the most advanced production systems of its kind in Europe. Our plant in Ireland is often visited by other companies from around the world who wish to view a model facility in terms of processes, technology and layout.

A precast façade unit can be customised to meet individual requirements through the application of different finishes. We employ a fully qualified team of engineers and technicians who provide a comprehensive design and development service.

Cost control is crucial in the manufacture of our products. Through early involvement and careful planning, we ensure all job costs are minimised while quality continues to be meticulously controlled.

Products are completed in line with client's requirements through in-depth discussion and client involvement at tendering stage. This ensures that products are designed, manufactured and finished according to an agreed contractual programme.



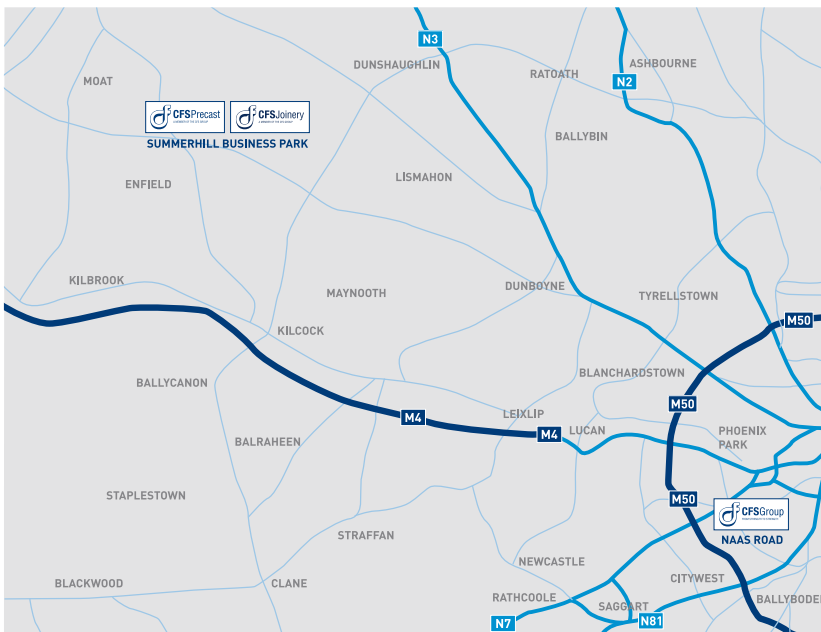




CFS PRECAST DELIVERY AND SUPPORT

We have 'custom-designed' vehicle fleet units specifically to house and transport the various product types which we manufacture. These include specially designed 'Wall Carrier Trailer' units which have hydraulic systems to lift the Housing Unit for Façade Systems and secure it on the vehicle. This ensures that our products are always delivered to site in perfect condition.

Our on-site installation team are fully trained and are up to date with all aspects of installation methods.



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