

## PRECAST CONCRETE

CUSTOM BUILT SOLUTIONS  
FROM DESIGN TO INSTALLATION

UNRIVALLED SERVICE FROM



#### DESIGN

- | Full bespoke design service to create unique precast products to meet your specification. With all precast units manufactured on custom built moulds, we can cater for a wide variety of configurations to create a truly bespoke design.
- | Design can incorporate notches, holes, etc. and will ensure load bearing capacity is maximised with a minimum floor weight.
- | We have a full design team available to our clients, which includes the expertise of both Design Engineers and Architectural Technologists
- | Full BIM design service available



#### MANUFACTURE

- | Manufactured at our technically advanced production facilities on custom built moulds to client requirements
- | Rigorous factory controlled quality procedures eliminate many common on-site issues



#### INSTALLATION

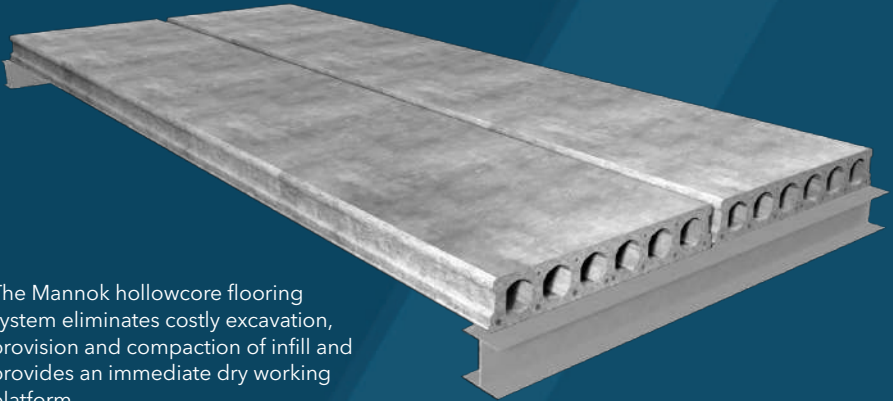
- | Our award-winning installation teams can ensure safe and secure fitting of all precast units
- | Risk assessment carried out before any works commences on site and regular site inspections during fitting works
- | On site Installation includes craneage
- | Reliable delivery service to ensure products are where and when you need them, coupled with efficient installation which is unaffected by weather avoids unnecessary programme delays



#### SUPPORT

- | We've built what we believe to be one of the strongest technical support teams available to ensure our clients receive the highest standards of advice and guidance throughout the process, from sales right through to aftercare.
-

# HOLLOWCORE FLOORING



The Mannok hollowcore flooring system eliminates costly excavation, provision and compaction of infill and provides an immediate dry working platform.

Large open spaces can be created with minimum use of internal support and, with the excellent span/depth ratio, overall construction height can be minimised.

Load bearing elements can be placed directly onto the hollowcore unit, eliminating the need for additional support and providing greater design flexibility.

## DESIGN

A full bespoke design service to client specification and to relevant standards of EN 1168.

## FINISHES

Hollowcore units are cast on steel moulds, type "A" soffit finish as defined in BS 8110 Part 1 Clause 6.2.7.3. Unit tops can be roughened during manufacture to ensure an adequate bond is achieved when a structural screed is required.

## FIRE & SOUND RESISTANCE

The standard Mannok unit has a minimum fire resistance rating of 1 hour. Higher ratings can be achieved. Excellent sound resistance and 150mm dense slab meets the requirement of document E for sound.

## LOAD/SPAN TABLE FOR MANNOK HOLLOWCORE FLOOR UNITS

Safe Imposed Load v Clear Span Data for Prestressed Solid and Hollow Core Slabs						
Depth of precast unit (mm)	Type	Density (kN/m <sup>2</sup> )	Allowable clear span (m) for imposed live load (kN/m <sup>2</sup> )			
			1.0	2.0	5.0	10.0
150	Hollow core	2.38	7.30	7.30	6.97	5.52
150HD	Hollow core high density	3.00	7.30	7.30	6.72	5.39
200	Hollow core	2.89	9.80	9.80	8.84	7.06
250	Hollow core	3.43	12.30	12.30	10.65	8.59
300	Hollow core	3.95	14.80	14.47	12.66	10.30
320	Hollow core	4.42	14.80	14.80	13.67	11.19
400	Hollow core	5.02	17.30	17.30	16.26	13.35

## BALCONIES & TERRACES

Mannok Precast balconies and terraces are expertly designed to individual requirements and manufactured in-house within factory controlled quality standards.

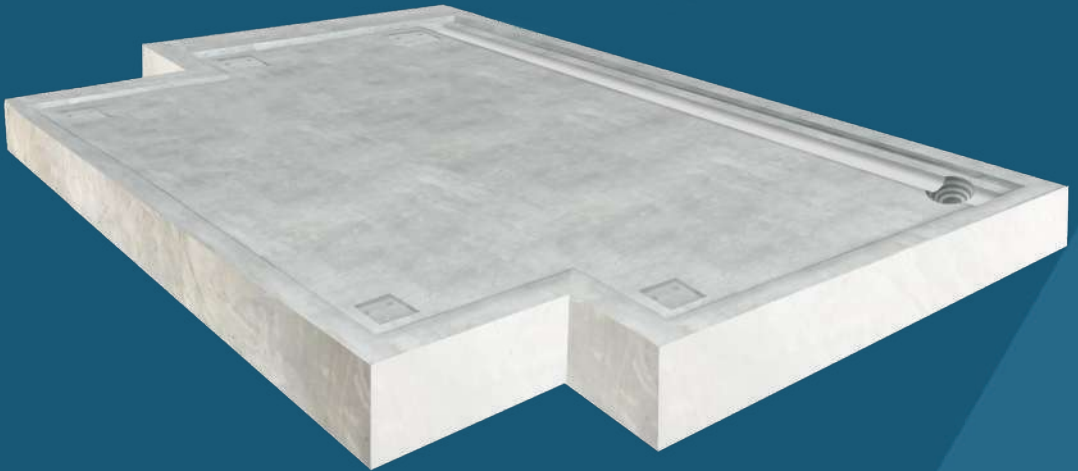
### INSTALLATION

Our experienced installation teams can ensure balconies and terraces are erected safely and securely with a high-quality finish. The high-speed installation requires minimal site labour and saves on overall construction time. Balconies can be erected with floor units prior to pouring of screed.

### COMBATING COLD BRIDGING

By incorporating a thermal break system as part of the balcony, the units offer an effective countermeasure against cold bridging, preventing heat and energy loss, damp, mould growth and structural damage.

The system not only thermally separates components from one another but also acts as a structural component, whilst still offering flexibility and extensive scope for design.



## BEAMS AND COLUMNS

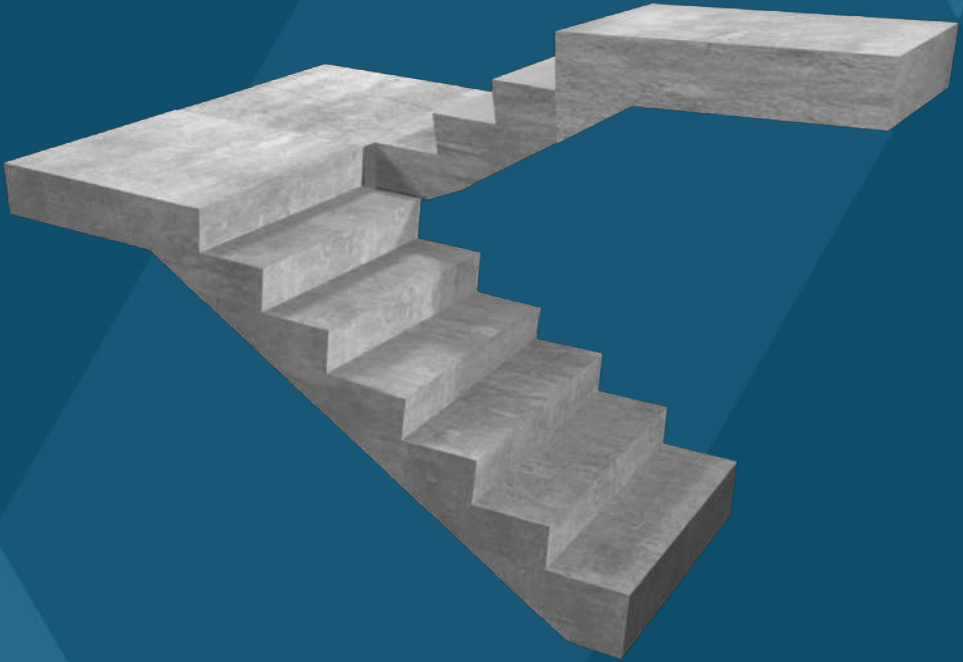
Tailor-made precast concrete columns are available in a range of shapes and beams available in various profiles to suit project design requirements.

Columns can be single or double storey in height and connections may be made via a

base plate to the column or by reinforcing bars projecting from the cast, or set into a preformed hole in a foundation block and grouted into position.



## STAIRS & LANDINGS



We offer a full range of precast stairs and landings to compliment our hollowcore flooring units.

With project specific configurations available, Mannok Precast stairs and landings can greatly reduce construction times and provide immediate safe access to floor platforms.

### TYPICAL RANGE

Riser: 150 mm - 220 mm.

Going: 220 mm - 300 mm.

Waist: 150 mm - 250 mm.

(Depends on span and design load)

Width: 900 mm - 2000 mm.

Landing Units cast to suit layout of stairs

### DESIGN

All stair flights and precast landings are designed and manufactured to the relevant sections of EN 14843 and to client specification.

### FINISHES

Mannok Precast stairs and landing units are manufactured using only the highest quality material hence the soffit, risers and sides have a Type A finish as defined in BS 8110 Part 1 section 6.2.7.3.



t: +44 (0) 28 6774 2216  
mannokbuild.com

---

**TECHNICAL**

[technical@mannokbuild.com](mailto:technical@mannokbuild.com)

---

**SALES**

[sales@mannokbuild.com](mailto:sales@mannokbuild.com)

---

**BUILD IT BETTER WITH MANNOK**

---

