



CREAGH
INNOVATION IN CONCRETE

Floors & Stairs

PRESTRESSED HOLLOWCORE FLOORS - PRECAST STAIRS & LANDINGS





THE COMPLETE PACKAGE

Creagh produces a diverse portfolio of concrete products which continues to grow through research and new product development - the versatility of precast concrete ensures limitless possibilities and potential.

With extensive experience in delivering projects ranging from private residential to commercial and industrial, our Contracts and Commercial teams will work with you to ensure that your project is delivered on time and within budget. Our experienced Project Managers have a comprehensive knowledge of all methods of construction including traditional build, timber frame, steel frame and concrete frame.

Creagh Concrete will work closely with you to ensure that every aspect of the project is considered. The team will provide you with a realistic programme so that your client's requirements are accommodated. With regular visits to sites and working closely with site teams, Contracts Managers and Project Managers will deliver

your project efficiently and safely. The Commercial team and Contracts Managers will ensure that all of the project's commercial needs are met, from contract review to application submittal. All aspects of each project will be treated with the highest level of confidentiality.

The Technical Sales team will provide a bespoke tender by considering structural and architectural requirements as well as logistics, budget and advise you on the best option:

- Supply Only
- Supply and Installation
- Supply Only with Wet Works
- Supply and Installation with Wet Works

Options for structural topping are also available on specific projects.

All projects are designed and detailed in house culminating in clear and accurate design drawings ensuring that when the product arrives on site, it can be installed with maximum efficiency.

Our professional and dedicated workforce is committed to providing total customer satisfaction and delivering the highest standard of excellence.

PRESTRESSED HOLLOWCORE FLOORS

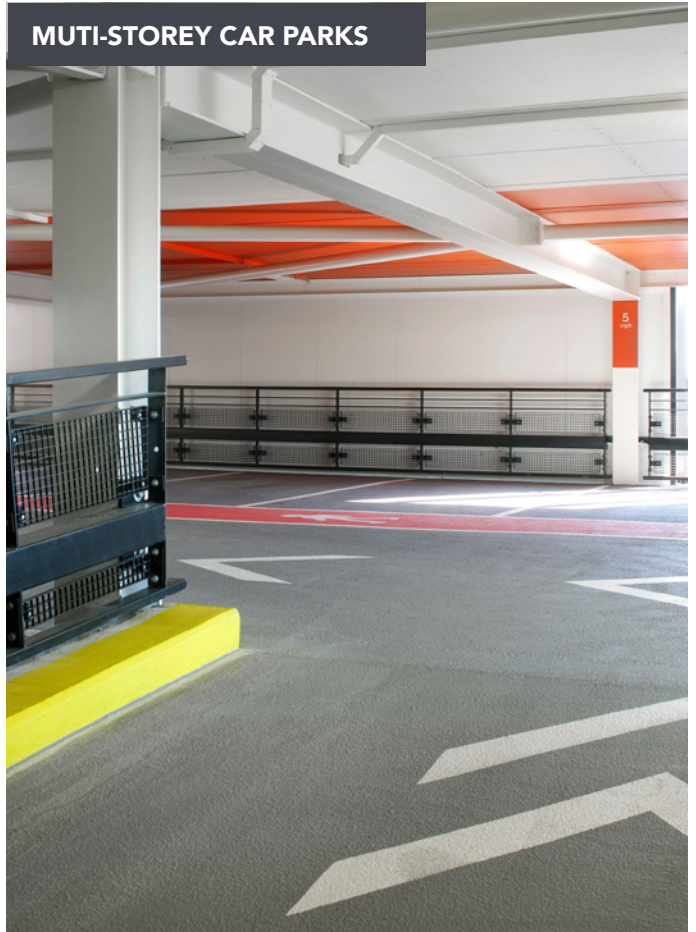
Creagh Concrete is one of the largest manufacturers of Prestressed Hollowcore Concrete Flooring in Ireland and the UK. With two state of the art production facilities in Northern Ireland and Scotland, Creagh Concrete has the capacity to produce in excess of 800,000m² of concrete flooring annually. Creagh offers a wide range of Prestressed Concrete Flooring for customers within a variety of sectors.



RESIDENTIAL



MULTI-STORY CAR PARKS



INFRASTRUCTURE / ENERGY



EDUCATION



INDUSTRIAL



COMMERCIAL



SLAB PROFILES

Creagh manufactures a large range of hollowcore concrete floor depths 100mm, 110mm, 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm and 500mm (other bespoke depths can be manufactured subject to project size).

The company can provide cast in lifting pins, factory formed weep holes, notches, open cores, reduced ends/ shelf angles and cantilevers. Slabs can be designed with a fire rating from 90 minutes to 2 hours.

Various depths of hollowcore flooring are also available with insulation bonded to the underside of slabs.

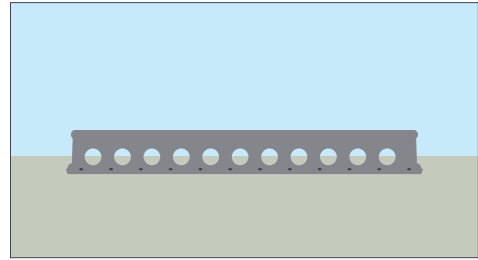
Type A and B finishes as per BS 8110 are available.



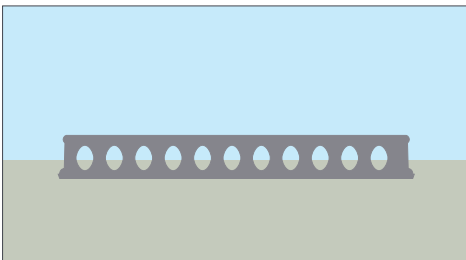
**100MM & 110MM DEEP
SOLID PRESTRESSED SLAB**



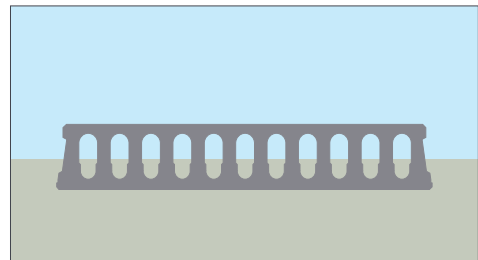
**150MM DEEP
DENSE PRESTRESSED SLAB**



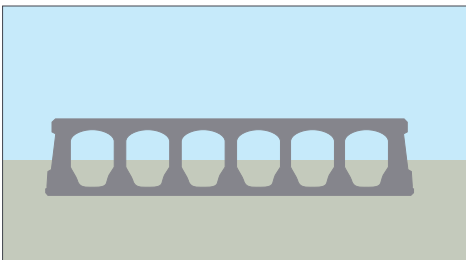
**150MM DEEP
PRESTRESSED SLAB**



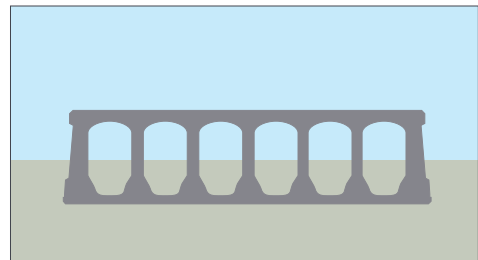
**200MM DEEP
PRESTRESSED SLAB**



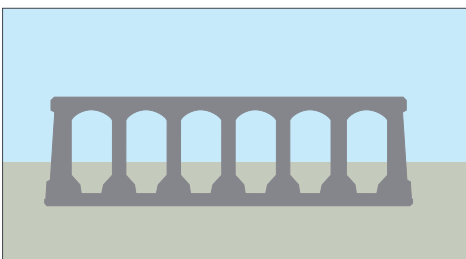
**250MM DEEP
PRESTRESSED SLAB**



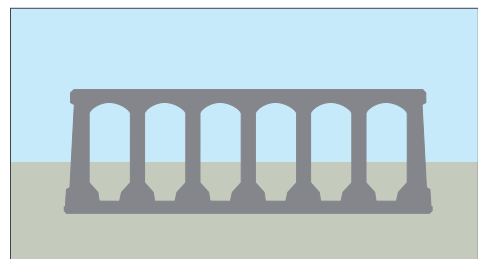
**300MM DEEP
PRESTRESSED SLAB**



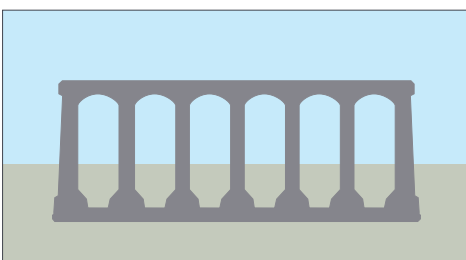
**350MM DEEP
PRESTRESSED SLAB**



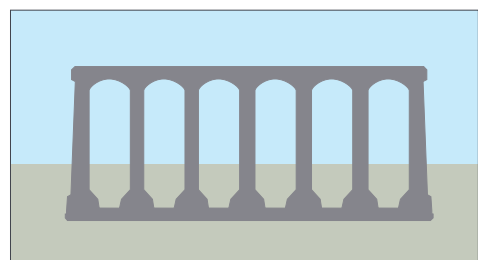
**400MM DEEP
PRESTRESSED SLAB**



**450MM DEEP
PRESTRESSED SLAB**

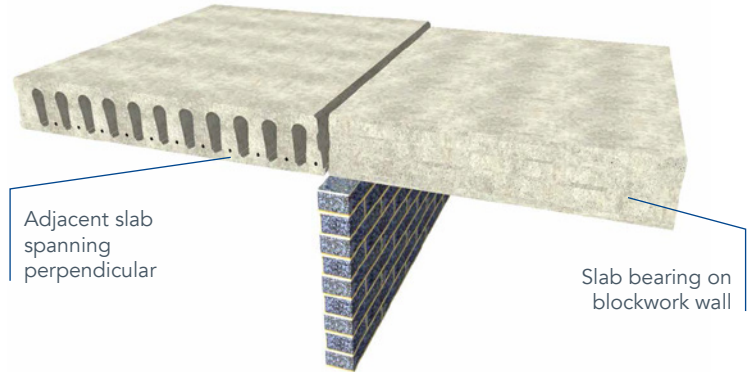


**500MM DEEP
PRESTRESSED SLAB**

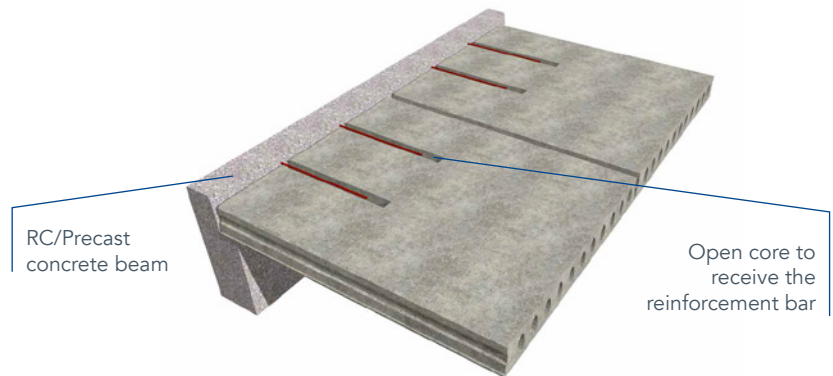


SPECIFICATIONS

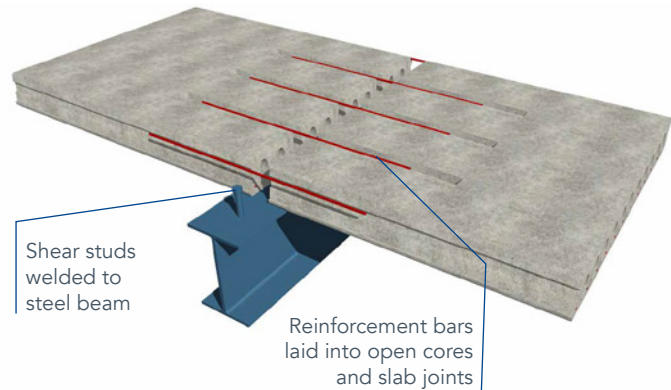
HOLLOWCORE SLAB BEARING ON BLOCKWORK



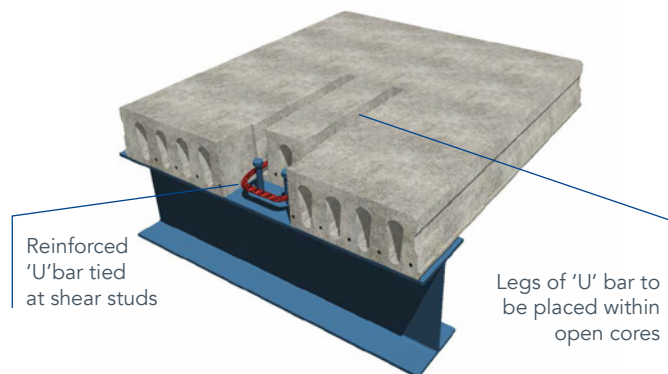
HOLLOWCORE SLAB BEARING ON CONCRETE BEAM



HOLLOWCORE SLAB SHARED BEARING WITH PROGRESSIVE COLLAPSE TIES



HOLLOWCORE SLAB END BEARING WITH PROGRESSIVE COLLAPSE TIES



LOADSPAN TABLES

PRESTRESSED HOLLOWCORE FLOOR

Overall structural Depth	Self Weight	No. of cores in unit	Spans indicated below allow for characteristic service load (live load) plus self weight plus 1.5kN/m ² for finishes							
			Characteristic service loads kN/m ²							
mm	kN/m ²		0.75	1.50	2.00	2.50	3.00	4.00	5.00	10.00
			CLEAR SPAN IN METRES							
100	2.38	0	5.39	5.19	5.08	4.91	4.72	4.40	4.14	3.30
150	2.52	11	7.40	7.40	7.40	7.40	7.28	6.80	6.40	5.12
150 Solid	2.94	11	7.40	7.40	7.40	7.35	7.08	6.64	6.27	5.06
200	3.10	11	9.40	9.40	9.40	9.40	9.26	8.69	8.21	6.65
250	3.43	6	10.80	10.80	10.80	10.80	10.80	10.80	10.56	8.60
300	3.88	6	13.50	13.50	13.50	13.50	13.18	12.44	11.81	9.70
350	4.23	6	15.00	15.00	15.00	15.00	14.89	14.08	13.39	11.06
400	4.57	6	16.00	16.00	16.00	16.00	15.97	15.13	14.42	11.98
450	4.92	6	18.00	18.00	18.00	17.70	17.19	16.33	15.58	13.02
500	5.27	6	18.00	18.00	18.00	18.00	18.00	17.13	16.38	13.76

PRESTRESSED HOLLOWCORE COMPOSITE

Overall structural Depth	Unit Depth	Self Weight	No. of cores in unit	Spans indicated below allow for characteristic service load (live load) plus self weight plus 1.5kN/m ² for finishes							
				Characteristic service loads kN/m ²							
mm	mm	kN/m ²		0.75	1.50	2.00	2.50	3.00	4.00	5.00	10.00
			CLEAR SPAN IN METRES								
175	100	4.18	0	5.64	5.49	5.40	5.32	5.23	5.08	4.93	4.36
225	150	4.32	11	7.40	7.40	7.40	7.40	7.40	7.29	7.02	6/03
225	150 Solid	4.74	11	7.40	7.40	7.40	7.40	7.39	7.13	6.89	5.97
275	200	4.90	11	9.40	9.40	9.40	9.40	9.31	8.95	8.62	7.40
325	250	5.23	6	10.80	10.80	10.80	10.80	10.80	10.80	10.69	9.13
375	300	5.68	6	13.50	13.50	13.33	13.04	12.76	12.25	11.79	10.10
425	350	6.03	6	15.00	15.00	15.00	14.52	14.22	13.66	13.16	11.29
475	400	6.37	6	16.00	16.00	16.00	15.50	15.18	14.60	14.08	12.11
525	450	6.72	6	18.00	17.39	17.39	16.66	16.33	15.72	15.17	13.09
575	500	7.07	6	18.00	18.00	17.82	17.46	17.12	16.50	15.94	13.80

* The above data is based upon 75mm structural topping of C25/30 concrete.

STAIRS & LANDINGS

Creagh stair flights and landings are produced to a high standard of finish and dimensional accuracy. Production falls into two main types - timber and steel moulds. Stairs are made as straight flights or with attached landings and can also be produced as winder risers or individual treads.



Cast-in inserts for nosings or recesses for nosings as well as cast in sockets for temporary handrails (by others) can also be provided. Creagh also manufacture Bespoke Concrete Stairs or Exposed Aggregate/Architectural Finished Recon Concrete Stairs. Concrete staircase components are produced with a variety of profiles and features to meet the specific needs of each individual project.

FINISHES AVAILABLE

There are three types of standard finish available.

Type A - the finish surface should be free from voids, honeycombing and other blemishes, small blemishes caused by entrapped air or water may be visible.

Type B - this finish can only be obtained by the use of high quality concrete and formwork. The concrete is thoroughly compacted and all surfaces are true with clean arises. Only very minor surface blemishes occur with no staining or discolouration.

Type C - this finish is first obtained by producing a type B finish and then improving this finish by carefully removing all fins and other projections, thoroughly washing down and then filling the most noticeable surface blemishes with a cement and fine aggregate paste to match the colour of the original concrete. After curing, the face is rubbed down, where necessary, to produce a smooth and even surface.

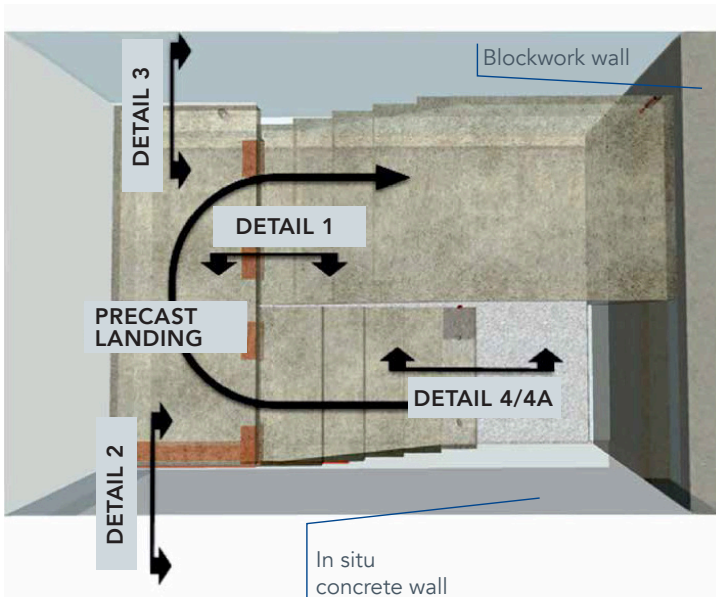
MANCHESTER METROPOLITAN UNIVERSITY

Client:
Manchester Metropolitan University.

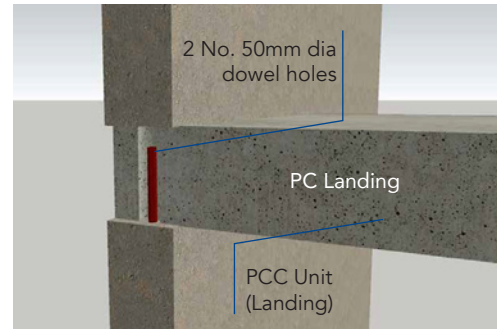
Location:
Manchester

Construction value:
£6,100,000

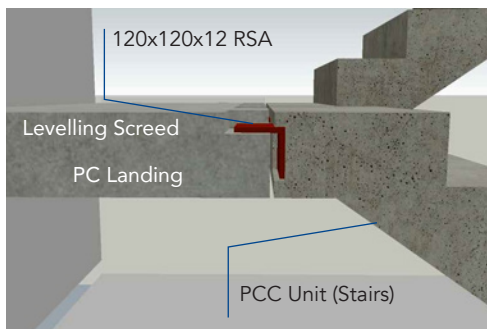




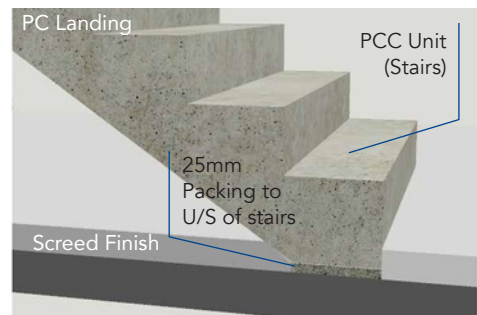
**DETAIL 3
PRECAST LANDING
IN SITU SUPPORT**



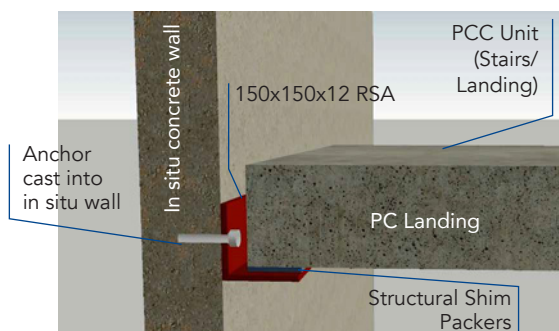
**DETAIL 1
PRECAST STAIR TO LANDING
CONNECTION**



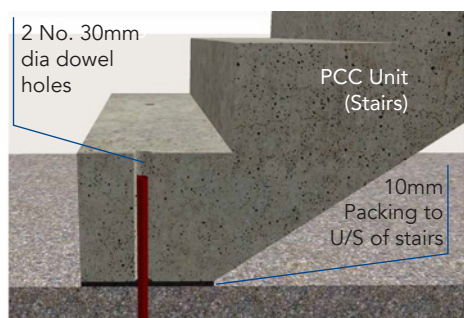
**DETAIL 4
PRECAST STAIR SCREEDED TO
FINISHED FLOOR**



**DETAIL 2
PRECAST LANDING
ANGLE SUPPORT**



**DETAIL 4A
PRECAST STAIR ON
FINISHED FLOOR**





CREAGH INNOVATION IN CONCRETE

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