

Precast Stair Systems



MEXBORO
THE CAST MASTERS

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Introduction

Mexboro Concrete has over thirty years experience in the production of high quality precast concrete staircase components and systems.

In line with modern building practises the company has conceived a system that combines ease of construction with economical cost that will be suitable in most instances. In the event that the systems featured in this brochure will not prove suitable for you, Mexboro are able to produce individually designed stairs to suit your requirements.

A complete portfolio of our products are listed on the back cover of this brochure.

Precast Staircases - *the advantages*

• **Speed of Erection**

Mexboro precast stairs are quick and easy to erect and provide instant access once placed. They can be erected in all weathers.

• **Economic Cost**

Precast stairs eliminate the need for costly shuttering, concrete placing, propping and finishing on site. In most instances inexpensive beam and block landings can be utilised which can also reduce the number of crane attendances needed.

• **Quality of Finish**

Mexboro stairs are produced in either high quality steel moulds or, in the case of tailor made units, bespoke hand finished timber moulds produced by our vastly experienced carpenters.

• **Versatility**

Although it is recommended that a standard stair system is utilised wherever possible Mexboro are able to produce a precast alternative to the clients individual requirements.

Building Regulations

The required and approved dimensions for stairs as set out in 'Document K' are as follows :

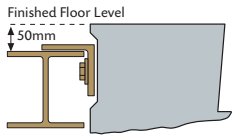
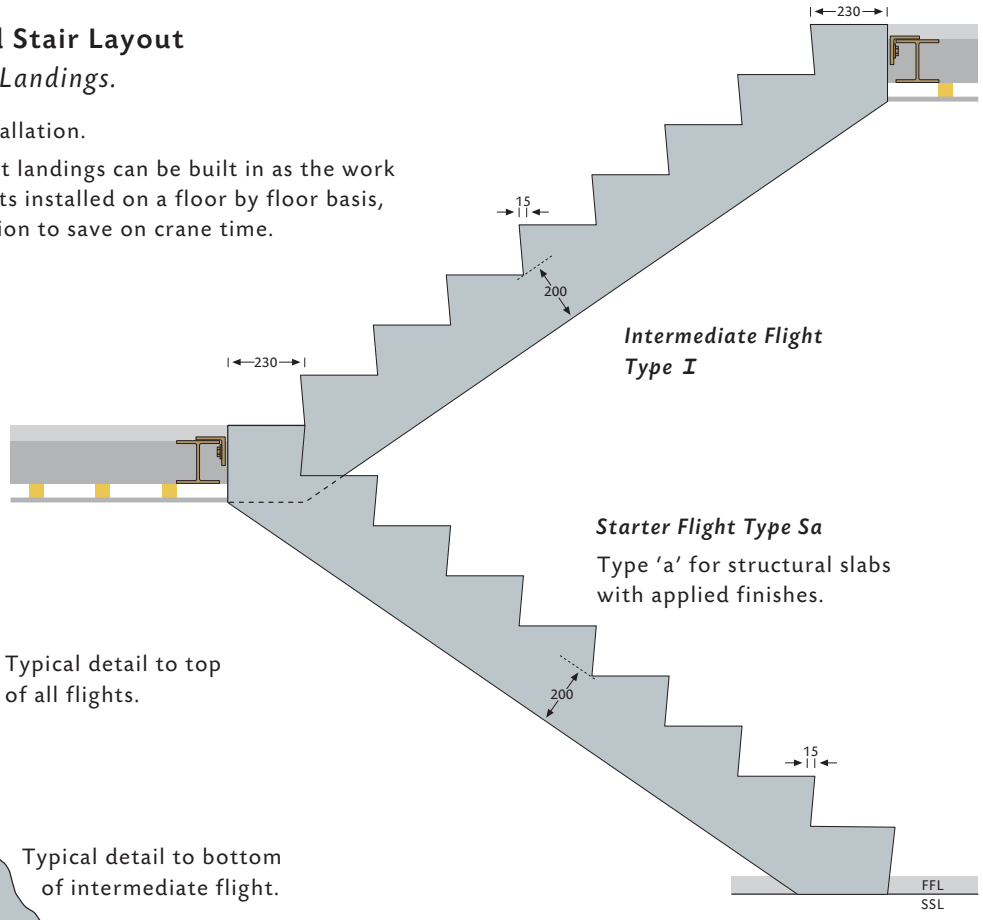
Category	Max Rise	Min Going	Notes
Private Single Dwelling	220mm	220mm	Maximum pitch is 42°
Institutional and Assembly	180mm	280mm	Max no. of risers in a flight is 16 if used in a shop or assembly area. Going may be 250mm for buildings of less than 100m ² floor area.
Others	190mm	250mm	
Disabled	170mm	250mm	Max rise between landings of 1800mm and clear flight width of 1000mm.



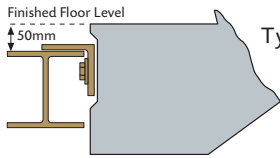
Typical Standard Stair Layout with Intermediate Landings.

Quick and simple installation.

Steel beams or precast landings can be built in as the work progresses, with flights installed on a floor by floor basis, or in one final operation to save on crane time.



Typical detail to top of all flights.



Typical detail to bottom of intermediate flight.

Bottom detail for starter flights Type Sa

Bottom tread fitted into finished floor level.

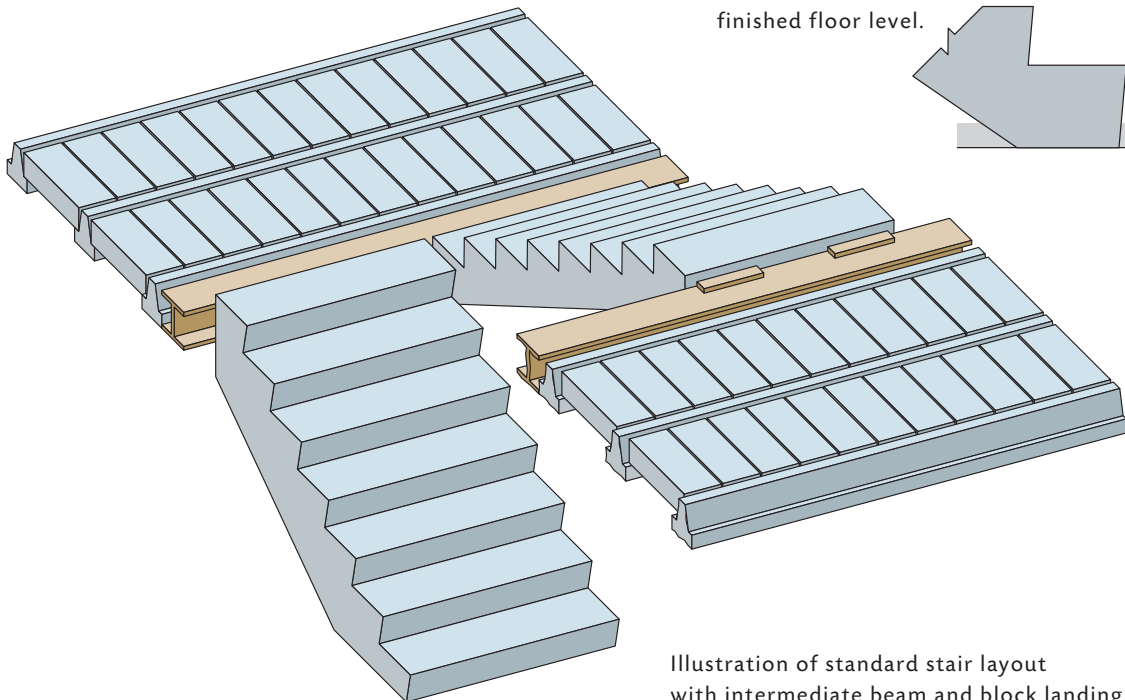
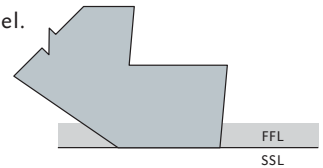






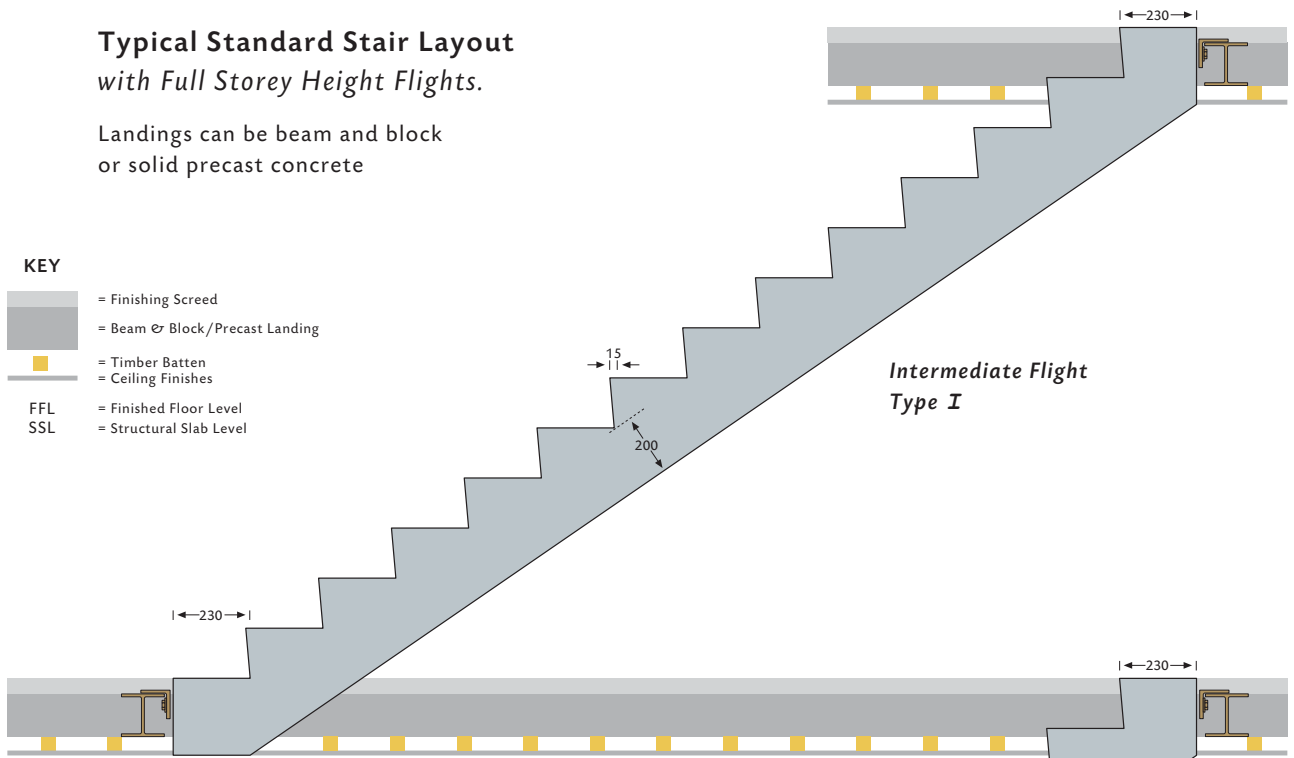
Illustration of standard stair layout with intermediate beam and block landing.

Typical Standard Stair Layout with Full Storey Height Flights.

Landings can be beam and block or solid precast concrete

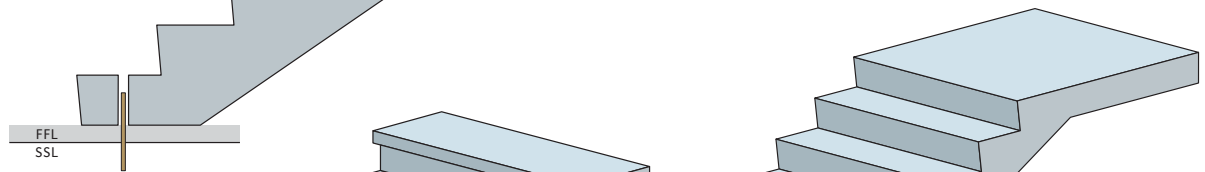
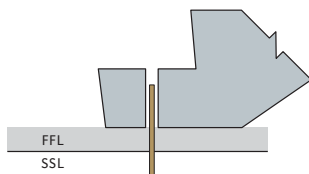
KEY

-  = Finishing Scream
-  = Beam & Block/Precast Landing
-  = Timber Batten
-  = Ceiling Finishes
- FFL = Finished Floor Level
- SSL = Structural Slab Level

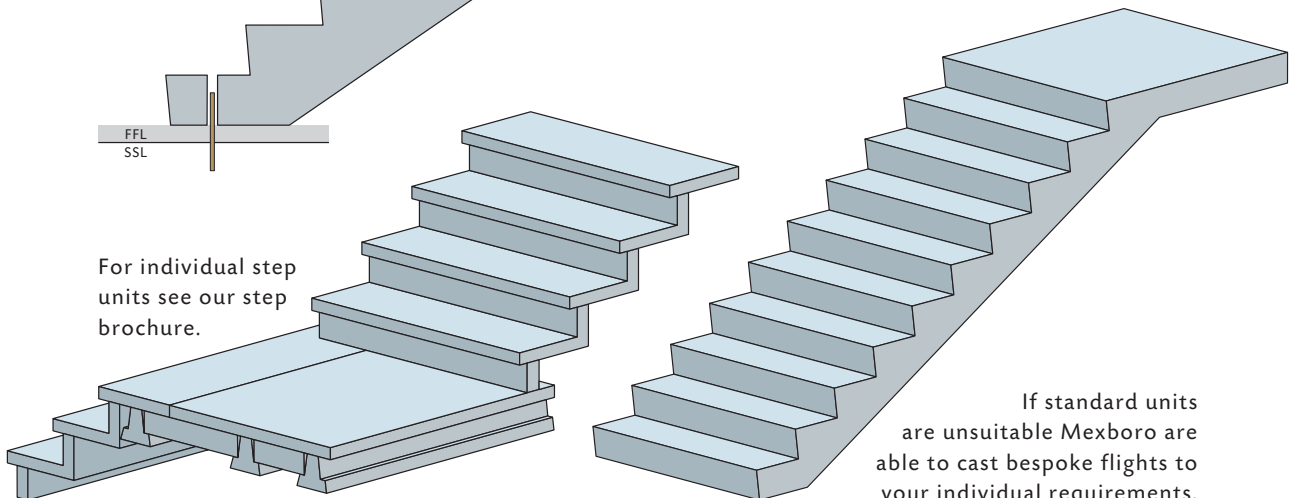


Bottom detail for starter flights Type Sb

Slab to be drilled and dowelled on site to secure in position.



For individual step units see our step brochure.



If standard units are unsuitable Mexboro are able to cast bespoke flights to your individual requirements.

Mexboro Standard Stairflights

Mexboro Concrete produce a range of standard stairflights which, when combined with solid or beam & block landings will cope with most situations.

The stairs are manufactured to order in 3 different basic types (please see below for type details), which when inclined within acceptable parameters will suit many different situations.

As a further aid to suitability stairs type A & B are

available in any width to 1200mm, while stair type C is available up to 1500mm wide.

All stairflights are manufactured as figs I & II overleaf but with the number of risers, and the width, required by the specifier.

Remember - these are details of the Mexboro Standard Stairflights. If none are suitable we are able to produce a bespoke stairflight to your requirements.

Standard Stairflight Details

Standard 7 Rise Flight - Type A

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	1275	1520	35.05	182	253
Norm	1300	1500	36.61	186	250
Max	1325	1481	38.15	189	247

Standard 14 Rise Flight - Type A

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	2550	3289	35.05	182	253
Norm	2600	3250	36.61	186	250
Max	2650	3210	38.15	189	247

Standard 8 Rise Flight (250 Going) - Type B

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	1312	1769	33.32	164	253
Norm	1336	1760	33.74	167	251
Max	1360	1750	34.22	170	250

Standard 16 Rise Flight (250 Going) - Type B

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	2624	3790	33.32	164	253
Norm	2672	3771	33.74	167	251
Max	2720	3750	34.22	170	250

Standard 8 Rise Flight (280 Going) - Type C

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	1312	1984	30.05	164	283
Norm	1336	1968	30.81	167	281
Max	1360	1960	31.26	170	280

Standard 16 Rise Flight (280 Going) - Type C

	Height	Going	Pitch	Riser (Nom)	Going (Nom)
Min	2624	4252	30.05	164	283
Norm	2672	4215	30.81	167	281
Max	2720	4200	31.26	170	280

All dimensions in mm.

Specifying standard flights couldn't be easier.

A/12/Sa/1100 (A = Type A / 12 = No. of rises required / Sa = Starter flight Type a / 1100 = Flight width)

Texture and Finish

A variety of textures and finishes are available including: wet cast, acid etch, exposed aggregate and polishing to simulate marble. Slip resistant inserts are also available.



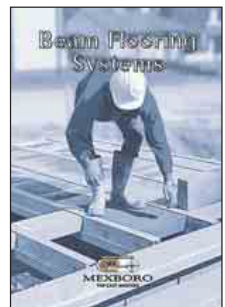
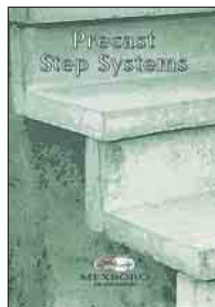
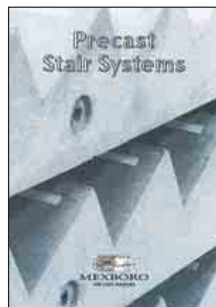


Talk to us about your projects and requirements.

Our technical and sales team will be happy to visit sites, supply quotations, and give structural and technical advice.

Other Products.

For further information or brochures on any of the following products please contact us or visit our website: www.mexboroconcrete.co.uk



Structural

- Beam & Block Flooring • Lintels • Staircases & Landings • Step & Riser Units • Ground Beams • Duct Covers • Retaining Walls • Frames, Columns & Beams • Bollards • Polished Face Units • Specialist Work

Architectural

- Urns • Ball Finials • Coping & Pier Caps • Columns • Porticos • Door Surrounds • Quoin Stones • Window Cills & Surrounds • Gate Piers • Lintels & Gable Vents • Fireplace Surrounds • Plinth/String Courses • Faced 'Ashlar' Blockwork

For over thirty years Mexboro has specialized in the manufacture of high quality architectural cast stone and structural precast concrete and it is now one of the largest precast specialists in the South West of England.

Our portfolio of products spans the building industry from quality architectural stonework to precision structural concrete, and from individually designed one-off units to an extensive range of standard lines.

Mexboro is proud to have been associated with the supply of cast stone to numerous prestigious developments including projects for English Heritage, The National Trust, P.S.A. and the Ministry of Defence.



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