



Precast Concrete Solutions.

# flooring solutions ground beams brochure

v.1.0



FP McCann is the UK's market leader in the manufacture, supply and delivery of precast concrete solutions. Our comprehensive precast concrete business extends to include:

**Drainage and Water Management Solutions**

**Tunnel and Shaft Solutions**

**Rail, Power and Infrastructure Solutions**

**Walling Solutions**

**Fencing Solutions**

**Rooms and Building Solutions**

**Agricultural Solutions**

**Flooring Solutions**

**Bespoke specialist precast product service**

Modern manufacturing plants at Alnwick (Northumberland), Cadeby (Warwickshire), Ellistown (Leicestershire), Grantham (Lincolnshire), Knockloughrim (Northern Ireland), Littleport (Cambridgeshire), Lydney (Gloucestershire), Telford (Shropshire) and Weston Underwood (Derbyshire) incorporate the latest computerised batching, distribution, casting, curing and handling systems and are operated by skilled and experienced workforces to ensure consistency of quality. Their geographical spread gives us an unrivalled ability to serve the construction industry throughout the UK and Ireland.

## Introduction

FP McCann are a company of assessed capability under the BSI Quality Assurance Scheme, to BS EN ISO 9001: 1994. We manufacture precast concrete ground beams to a variety of designs and dimensions as specified by the client. We also manufacture a range of standard beam sizes to suit the design criteria.

## Handling and Installation

- Beams are delivered and off-loaded using the quick release lifting loops attached to the recessed eyes.
- Simply lifted into their final position using the same method.

## Design Criteria

<b>Design</b>	Beams are designed to BS 8110 The structural use of concrete
<b>Loading</b>	To suit project specific requirements
<b>Section</b>	Up to 400mm wide x up to 800mm high
<b>Lengths</b>	Up to 8000mm
<b>Bearings</b>	Minimum end bearing 300mm
<b>Anchor Dowels</b>	T.32 – Hole diameter 75mm
<b>Lifting</b>	Proprietary recessed lifting eyes
<b>Concrete mix</b>	Minimum compressive strength 40N/mm <sup>2</sup> @ 28 days
<b>Cement</b>	Ordinary Portland
<b>Aggregate</b>	Trent Valley 20mm max size
<b>Reinforcement</b>	Characteristic strengths, Main bars 460N/mm <sup>2</sup> , Links 250N/mm <sup>2</sup> Minimum cover 40mm





Weston Underwood Office:  
Bullhurst Lane,  
Weston Underwood,  
Derbyshire,  
DE6 4PH.

Tel: 01335 361269  
[precast@fpmccann.co.uk](mailto:precast@fpmccann.co.uk)

[fpmccann.co.uk](http://fpmccann.co.uk)