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:

AGRICULTURE | ARCHITECTURAL PRECAST | BOX CULVERTS | BUILDING PRODUCTS
DOCK LEVELLER PITS | DRAINAGE | FENCING | FILTER BED SYSTEMS | FLOORING
POWER & INFRASTRUCTURE | RAIL | SPECIALIST PRECAST | STRUCTURAL PRECAST
TANKS & CHAMBERS | TUNNELS & SHAFTS | WALLING

Modern manufacturing plants at Alnwick (Northumberland), Armagh (Northern Ireland), Byley (Cheshire), Cadeby (Leicestershire), Grantham (Lincolnshire), Lisnaskea (Northern Ireland), Littleport (Cambridgeshire), Lydney (Gloucestershire), Kilrea (Northern Ireland), Magherafelt (Northern Ireland), Uddingston (Lanarkshire) 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.

By applying the DFMA principles, FP McCann’s design engineers are able to evaluate individual precast concrete products part by part, in addition to documenting the assembly process step by step. This allows them to generate the cost, part count and assembly time to provide a benchmark to measure its success and identify the parts and process improvement opportunities. In turn, this has allowed FP McCann to design and manufacture more cost-effective and efficient high-quality precast concrete products with less wastage and greater on-site recycling. As a result, increased productivity, combined with a reduction in production time and costs, allows FP McCann to be more competitive within the marketplace.

Please note: all information is correct at time of going to print.

Manufactured to Network Rail specification, FP McCann is a nominated approved supplier of precast concrete cable troughs and concrete platform copings to the rail sector.

The FP McCann series of troughs and lids are Network Rail approved; Certificate Number: FA 05/01429

FP McCann manufactures a standard range of precast concrete railway platform components to Network Rail Specification NR-L3/CIV 030; these include modular platform systems, platform copings, platform edge warning paving (tactiles) and oversail blocks; Nosing slabs to London Underground specification are also available.

All products are manufactured under a quality assurance system assessed against BS EN 9001 by BSI.

FP McCann is a Supply Line and RISQS approved company; Achilles Supplier number 061598.

For all your product enquiries, please contact our sales team at the Littleport office on 01353 861416.
FP McCann is an approved manufacturer and supplier of platform copings to Network Rail and London Underground specifications. Copings are manufactured in full accordance with the requirements of NRL3/CIV/030 and are accredited as conforming to the pendulum test slip resistance requirements of BS EN 13036-4.

Network Rail copings are available in two industry approved sizes 930x760x100 and 1219x914x100. Network Rail dual copings are available in two industry approved sizes 930x1160x100 and 930x1260x100. Requests for non-standard product sizes and colours can be accommodated. London Underground nosing slabs are available from stock.

**PRODUCT BENEFITS**

- Manufactured to NWR specification
- Meets NRL3/CIV/030 requirements
- A one piece unit consisting of a standard coping unit combined with contrasting colour tactile section
- Available with optional pre-painted white and/or yellow lines factory applied for visual warning, saving time and labour on site, with obvious benefits in health and safety
- Available with optional cast-in lifting inserts to aid installation
- Available with grit blasted or acid etched finish as standard
- One piece unit not only saves time during installation, but avoids the problems associated with joining coping and tactile units, such as trip hazards, de-bonding during temperature fluctuations and freeze/thaw exposure
- Reduced whole life costs due to the reduced maintenance and serviceability required with one piece units

**DUAL PLATFORM COPING UNIT**

**AVAILABLE FINISHES:**

- Acid Etched
- Exposed Aggregate

**PRODUCT SPECIFICATION:**

**PRODUCT TYPE:** Solid reinforced concrete unit with profiled surface

**DESIGN STANDARDS:**
- Manufactured to BS 8110 / 100 year design life
- Network Rail Civil Engineering Standard NR/L3/CIV/030

**COMPLIANCE:**
- Approved supplier to the UK rail industry
- RISQS Registered; Achilles Supplier No. 061598

**PHYSICAL PROPERTIES**

**DIMENSIONS:** 930x1160x100mm

**TOLERANCES:**
- Length +/- 6mm
- Width +/- 6mm
- Thickness +/- 6mm

**SLIP/SKID:** Mean Unpolished Skid Resistance Value (USRV) >55

**FINISH:**
- Steel Reinforcement to BS4449
- Acid Etched
- Exposed Aggregate
- Grit Blasted

**CONCRETE STRENGTH:**
- Characteristic 28 day cube strength = 55N/mm²

**DENSITY:** Typically 2500kg/m³

**CONCRETE DESIGN CHEMICAL CLASS:**
- DC4 to BS8500

**COLOUR:**
- Grey

**APPROX UNIT WEIGHT:**
- 273kg

**SUPPLY**

- UNITS PER PALLET: 5 number
- AV. PACK WEIGHT: 1365kg

**FP McCann**

fpmccann.co.uk/rail  01353 861416  |  54  |  fpmccann.co.uk/rail  01353 861416
**STANDARD PLATFORM COPING**

**LONDON UNDERGROUND COPING**

**PRODUCT SPECIFICATION:**
**PRODUCT TYPE:** Solid reinforced concrete unit with profiled surface

**DESIGN STANDARDS:**
Manufactured to BS 8110 100 year design life

**COMPLIANCE:**
Approved supplier to the UK rail industry
RISQS Registered; Achilles Supplier No. 061598

**PHYSICAL PROPERTIES:**
**DIMENSIONS:**
- TYPE A: 930 x 760 x 100mm
- TYPE B: 1219 x 914 x 100mm

**TOLERANCES:**
Length +/- 6mm, Width +/- 6mm, Thickness +/- 6mm

**SLIP/SKID:**
Mean Unpolished Skid Resistance Value (USRV) >55

**FINISH:**
Acid Etched or Exposed (NR) & Acid Etched (LUL)

**REINFORCEMENT:**
Steel Reinforcement to BS4449

**CONCRETE STRENGTH:**
Characteristic 28 day cube strength = 50N/mm²

**DENSITY:**
Typically 2500kg/m³

**CONCRETE DESIGN CHEMICAL CLASS:**
DC2 to BS8500

**COLOUR:**
Grey

**APPROX UNIT WEIGHT:**
- TYPE A: 179kg
- TYPE B: 286kg

**SUPPLY:**
**UNITS PER Pallet:**
- TYPE A: 6 number
- TYPE B: 5 number

**AV. PACK WEIGHT:**
- TYPE A: 1075kg
- TYPE B: 1430kg

---

**PLATFORM COPING UNIT**
**TYPE PC10 - 600 X 610 X 65MM**

**PRODUCT SPECIFICATION:**
**PRODUCT TYPE:** Solid reinforced concrete unit with profiled surface

**DESIGN STANDARDS:**
Manufactured to BS 8110 100 year design life

**COMPLIANCE:**
Approved supplier to the UK rail industry
RISQS Registered; Achilles Supplier No. 061598

**PHYSICAL PROPERTIES:**
**DIMENSIONS:**
- TYPE A - 930 X 760 X 100MM
- TYPE B - 1219 X 914 X 100MM

**TOLERANCES:**
Length +/- 6mm, Width +/- 6mm, Thickness +/- 6mm

**SLIP/SKID:**
Mean Unpolished Skid Resistance Value (USRV) >55

**FINISH:**
Acid Etched or Exposed (NR) & Acid Etched (LUL)

**REINFORCEMENT:**
Steel Reinforcement to BS4449

**CONCRETE STRENGTH:**
Characteristic 28 day cube strength = 50N/mm²

**DENSITY:**
Typically 2500kg/m³

**CONCRETE DESIGN CHEMICAL CLASS:**
DC2 to BS8500

**COLOUR:**
Grey

**APPROX UNIT WEIGHT:**
- TYPE A: 179kg
- TYPE B: 286kg

**SUPPLY:**
**UNITS PER Pallet:** 12 number
PRODUCT SPECIFICATION:

PRODUCT TYPE:
Solid reinforced concrete unit with profiled surface

DESIGN STANDARDS:
Manufactured to BS 8110
100 year design life

COMPLIANCE:
Approved supplier to the UK rail industry
RISQS Registered
Achilles Supplier No. 061598

PHYSICAL PROPERTIES:

DIMENSIONS:
PC 20 - 910 x 685 x 90mm
PC 30 - 910 x 685 x 90mm

TOLERANCES:
Length ±/− 6mm, Width ±/− 6mm, Thickness ±/− 6mm

SLIP/SKID:
Mean Unpolished Skid Resistance Value (USRV) >55

FINISH:
Acid Etched or Exposed (NR) & Acid Etched (LUL)

REINFORCEMENT:
Steel Reinforcement to BS4449

CONCRETE STRENGTH:
Characteristic 28 day cube strength = 50N/mm²

DENSITY:
Typically 2500kg/m³

CONCRETE DESIGN CHEMICAL CLASS:
DC2 to BS8500

COLOUR:
Grey

APPROX UNIT WEIGHT:
PC20 - 164kg
PC30 - 143kg

SUPPLY:

UNITS PER PALLET:
PC20 - 6 number
PC30 - 6 number

OFFSET TACTILE PAVING

ALL SIZES ARE IN MM

WEIGHT 20KG

COMPLEMENTARY PRODUCTS

Other complementary products include locating insets (large and small), imperial measurement cable trough lids (11” x 36”), precast concrete posts and rail ballast boards. Through our fencing division, we can also supply security chain link posts, universal posts, bollards, gravel boards and screwed rails.

BUFF
CHARCOAL GREY
STANDARD GREY

To denote off Street/Rail application to the visually impaired, FP McCann supplies flat domed offset tactile paving units in accordance with BS EN 1339.

Approved for use in both surface and underground platforms, this product is available in buff, charcoal grey and standard grey colours.

OVERSAIL BLOCK

Supplied to individual customer requirements, FP McCann manufactures a standard oversail block. The integral unit is formed to key in with the platform edge. The block has a location notch for coping pavement dowels. The oversail block is manufactured in accordance with BS EN 1339.
FP McCann provides a number of construction solutions for new build platforms and platform extensions. These range from the very traditional approach, through to the latest innovations in modular design. Every station can provide a different set of challenges and FP McCann has the right solution to answer these challenges.

**RETAINING FRONT WALLS**

**FEATURES**
- Most commonly 1000mm high, but available in a range of sizes
- Can be combined with FP McCann oversail blocks to provide replacement for traditional masonry front wall

**PLATFORM CONSTRUCTION ADVANTAGES**
- Economical when building alongside track with no running rails
- Flexible construction where platform width varies along length or on curved platforms
- Effective at base of cutting where only one wall is required
- Platform level can be adjusted
- Presents a clean elevation, free from litter traps
- Lamp posts and station buildings can be readily accommodated. Can cater for platform loading, even if increased at a later date

---

**PRECAST REINFORCED CONCRETE RETAINING WALL**

The traditional platform construction can be replaced with a FP McCann precast platform retaining wall. This can be combined with FP McCann’s oversail blocks to provide an offsite solution to the traditional construction method.

**PRESTRESSED HOLLOWCORE PLANKS AND REINFORCED CONCRETE BEAMS**

The use of hollowcore widespan flooring planks reduces labour and time onsite, while providing a cost-effective working platform.

**PRESTRESSED HOLLOWCORE PLANKS AND REINFORCED CONCRETE CROSSWALLS**

Removing the need for masonry work, a precast crosswall can be combined with hollowcore planks to provide a more efficient construction system that can be installed with greater speed.
**Prestressed Concrete Hollowcore Planks and Reinforced Concrete Beam**

**Hollowcore Planks Features**
- Manufactured with a series of voids to reduce weight. Comes in standard widths of 1200mm or 600mm.
- Depths vary depending on the span required.
- Common depths include 150mm deep for spans up to 6000mm and 200mm deep used in spans up to 7500mm.

**Cantilever Beams Features**
- Allow overhang from masonry wall to ensure maximum amount of green zone working during construction.
- Typically 440x100x3000mm, but varying lengths can be accommodated.

**Platform Construction Advantages**
- Can be generally constructed with lower track possession time.
- Reasonably flexible in catering for different platform widths with constant section.
- Allows choice of surfacing.
- Heavy platform loading can be catered for in the design.
- Services can be catered for with accessible ducts running through the cross walls.

**Crosswalls Features**
- Reduces the need for wet trades onsite.
- Replaces traditional masonry crosswall by combining the crosswall and cantilever beam in one precast unit.
- Considerable time saving against traditional methods.
- Typically 440x100x3000mm, however various sizes can be accommodated.
- FP McCann can provide form B design services, if required.

**FP McCann**
fpmccann.co.uk/rail  01353 861416  |  01353 861416  |  fpmccann.co.uk/rail  01353 861416  |  13
FP McCann has developed an adaptable modular precast platform system which has the flexibility to suit most platform construction projects.

With extensive experience in modular precast platforms, including high profile projects at Blackfriars and London Bridge, FP McCann has been able to demonstrate the benefits of utilising a precast modular system in place of more traditional construction methods.

FP McCann’s modular platforms have the versatility to be adopted on almost all platform schemes. A number of standard components can be used to provide solutions to scenarios such as large width platform, curved platforms, derailment loadings and island platforms.

SEMI-MODULAR REINFORCED CONCRETE CROSSWALLS AND SLABS

Removes the need for hollowcore planks and provides a level surface without the need for a levelling screed. A semi-modular precast system further reduces the need for onsite wet trades and allows flexibility in its design. Precast slabs allow for greater coverage per unit, making them more economical.

SEMI-MODULAR PRECAST REINFORCED CONCRETE FRONT/REAR WALLS AND SLABS

A semi-modular precast system with front wall construction allows ample access for services and crawl space. Apertures can be formed in the front to also allow access trackside.

MODULAR REINFORCED CONCRETE PLATFORM

FP McCann’s fully modular precast reinforced concrete platforms are the latest innovation in platform construction in the UK. A one piece unit allows up to 50m of platform construction per night time possession, which can take up to three weeks in traditional build.

DESIGN SERVICE

FP McCann offers a full design service and is able to develop solutions for any platform construction project.

Due to the flexibility in manufacture, cast-in items to aid construction on-site can be accommodated. For example, cast-in channel to hang services, fixing sockets for lighting columns and platform signs.

FP McCann’s platforms can be provided with a finished surface to meet the required slip resistance, and can be delivered with the platform copings and/or tactile paving factory fitted.

PLATFORM SLABS FEATURES

• For use on its own or with FP McCann’s platform crosswalls to create a semi modular precast platform system
• Allows a greater square metre coverage per unit, reducing installation time and making them more economical
• Does not require levelling screed
• Greater flexibility in unit design

CROSSWALL & SLABS

FP McCann has developed an adaptable modular precast platform system which has the flexibility to suit most platform construction projects.
SEMI-MODULAR REINFORCED CONCRETE FRONT WALL AND PLATFORM SLABS

FEATURES
• Modular design reduces installation time and minimises wet trades
• Allows for flexibility in design and manufacture for individual unit variance
• Provides crawl space and service access for current and future requirements
• Provides facilities and access for complicated service provisions
• Allows damp proofing

PLATFORM SLABS
Allows greater square metre coverage than traditional construction methods.

PLATFORM SLAB

PLATFORM FRONT WALL

FRONT/REAR WALL AND SLAB

MODULAR PRECAST PLATFORMS

With increased demand for new and extended railway platforms, FP McCann can provide a revolutionary modular precast platform solution whereby the majority of the construction works can be carried out offsite.

PLATFORM FRONT/WALL

TABLE AND KICKER UNITS
Table units are best utilised where a platform has a consistent width, with little or no curvature. Table units are used alongside a kicker unit and are suitable for both non-impact and impact scenarios. They can also be used back-to-back as an island platform, with the option of an infill slab between them to achieve larger width platforms.

FEATURES
• Fully modular precast unit
• Available in a large range of sizes and configurations
• Greatly reduces and in many cases eliminates wet trades

TABLE & KICKER UNIT

TABLE UNITS

fp mccann.co.uk/rail  01353 861416 | 17
**FEATURES**

- Significant reduction of installation time and track possessions, with minimal disruption to train services
- Offsite construction reduces project costs and potential health and safety risks
- Platform sections can be built and assembled offsite and, if required, can be inspected by the client prior to delivery
- Fully flexible design which can be modified to cater for a wide range of platform sizes or foundation heights. Designs can be customised to suit any shape and size of platform, including curved or sloping sections
- Integrated fixings, services and drainage reducing the time required to drill, fix and assemble once onsite

**CURVED PLATFORMS**

Platform sections can be cast with a small taper by using adjustable mould sides; these tapered sections enable curved platforms to be constructed up to a minimum radius of 300m. For tighter curved platforms, FP McCann can design and manufacture bespoke sections to suit any location.

**FOUNDATIONS**

FP McCann’s modular precast platform solution has been designed to cater for a range of foundation types to suit most ground conditions. Typical foundations range from simple strip footings to driven piles. All designs are compatible with our universal base design, which is used to locate each platform section in place.

**QUALITY ASSURANCE**

FP McCann’s precast modular solution is manufactured using a wet-cast process and is compliant to BS 8110 and European Standard Eurocode 2.

**MANUFACTURING STANDARDS**

All FP McCann products are manufactured in accordance with ISO 9001, with factory compliance to ISO 14001.

**PLATFORM CONSTRUCTION**

Single wet-cast concrete construction, additional pre-painted platform copings and tactile paving can be included as a secondary operation. These can be fixed in place prior to delivery at our factory or fixed onsite.

**INSTALLATION**

Entire platform sections, including copers, tactile and cable trays can be lifted into place using a crane, mechanical offload or specialist lifting rail vehicles, if required.

**COMPLEMENTARY PRODUCTS**

Designed for use with FP McCann’s platform copings, tactile, drainage and hard landscaping products.
FP McCann manufactures over 30 different types of ‘C series’ cable protection troughs and lids. Electricity service cables and trunking are completely protected from accidental damage or acts of vandalism, whilst offering easy access for maintenance teams. As well as the standard straight troughs and curves, we supply a range of specials, including tees, transitions and transformer/ location bases, all with Network Rail Approval. If you require a non-standard item that is not shown in our product range, we offer a bespoke service working to your specification.

### Cables Protection Troughs

#### Straight Troughs and Troughs

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Type</th>
<th>Trough / Lid Type</th>
<th>Weight (kg)</th>
<th>External Dimensions (mm)</th>
<th>Units Per Pallet</th>
<th>Units Per Load</th>
<th>No of Pallets Per Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/1/6</td>
<td>Straight Trough</td>
<td>100Wx90D</td>
<td>37</td>
<td>190 x 130</td>
<td>36</td>
<td>792</td>
<td>22</td>
</tr>
<tr>
<td>C/1/6</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/7</td>
<td>Straight Trough</td>
<td>130Wx130D</td>
<td>47</td>
<td>220 x 170</td>
<td>25</td>
<td>550</td>
<td>22</td>
</tr>
<tr>
<td>C/1/7</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/8</td>
<td>Straight Trough</td>
<td>150Wx200D</td>
<td>71</td>
<td>250 x 240</td>
<td>20</td>
<td>360</td>
<td>18</td>
</tr>
<tr>
<td>C/1/8</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/9</td>
<td>Straight Trough</td>
<td>190Wx130D</td>
<td>51</td>
<td>280 x 170</td>
<td>20</td>
<td>550</td>
<td>22</td>
</tr>
<tr>
<td>C/1/9</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/10</td>
<td>Straight Trough</td>
<td>250Wx130D</td>
<td>62</td>
<td>340 x 170</td>
<td>15</td>
<td>330</td>
<td>22</td>
</tr>
<tr>
<td>C/1/10</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/29</td>
<td>Straight Trough</td>
<td>350Wx130D</td>
<td>72</td>
<td>440 x 170</td>
<td>15</td>
<td>330</td>
<td>22</td>
</tr>
<tr>
<td>C/1/29</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/43</td>
<td>Straight Trough</td>
<td>350Wx300D</td>
<td>115</td>
<td>440 x 340</td>
<td>9</td>
<td>362</td>
<td>18</td>
</tr>
<tr>
<td>C/1/43</td>
<td>Straight Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Transitions

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Type</th>
<th>Trough / Lid Type</th>
<th>Weight (kg)</th>
<th>External Dimensions (mm)</th>
<th>Units Per Pallet</th>
<th>Units Per Load</th>
<th>No of Pallets Per Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/1/6</td>
<td>Transition Trough</td>
<td>C/1/8 - C/1/8</td>
<td>20</td>
<td>250 x 240</td>
<td>8</td>
<td>176</td>
<td>22</td>
</tr>
<tr>
<td>C/1/6</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/7</td>
<td>Transition Trough</td>
<td>C/1/9 - C/1/9</td>
<td>51</td>
<td>190 x 130</td>
<td>12</td>
<td>264</td>
<td>22</td>
</tr>
<tr>
<td>C/1/7</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/8</td>
<td>Transition Trough</td>
<td>C/1/10 - C/1/10</td>
<td>52</td>
<td>340 x 170</td>
<td>15</td>
<td>330</td>
<td>22</td>
</tr>
<tr>
<td>C/1/8</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/9</td>
<td>Transition Trough</td>
<td>C/1/16 - C/1/16</td>
<td>99</td>
<td>250 x 240</td>
<td>8</td>
<td>176</td>
<td>22</td>
</tr>
<tr>
<td>C/1/9</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/10</td>
<td>Transition Trough</td>
<td>C/1/29 - C/1/29</td>
<td>71</td>
<td>440 x 170</td>
<td>15</td>
<td>330</td>
<td>22</td>
</tr>
<tr>
<td>C/1/10</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/29</td>
<td>Transition Trough</td>
<td>C/1/43 - C/1/43</td>
<td>140</td>
<td>440 x 340</td>
<td>10</td>
<td>132</td>
<td>22</td>
</tr>
<tr>
<td>C/1/29</td>
<td>Transition Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Curves

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Type</th>
<th>Trough / Lid Type</th>
<th>Weight (kg)</th>
<th>External Dimensions (mm)</th>
<th>Units Per Pallet</th>
<th>Units Per Load</th>
<th>No of Pallets Per Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/1/16</td>
<td>Curve Trough</td>
<td>C/1/16 Curve x 100R</td>
<td>20</td>
<td>190 x 130</td>
<td>16</td>
<td>352</td>
<td>22</td>
</tr>
<tr>
<td>C/1/16</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/17</td>
<td>Curve Trough</td>
<td>C/1/17 Curve x 100R</td>
<td>25</td>
<td>220 x 170</td>
<td>15</td>
<td>330</td>
<td>22</td>
</tr>
<tr>
<td>C/1/17</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/18</td>
<td>Curve Trough</td>
<td>C/1/18 Curve x 100R</td>
<td>37</td>
<td>250 x 240</td>
<td>16</td>
<td>352</td>
<td>22</td>
</tr>
<tr>
<td>C/1/18</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/19</td>
<td>Curve Trough</td>
<td>C/1/19 Curve x 100R</td>
<td>47</td>
<td>340 x 170</td>
<td>20</td>
<td>440</td>
<td>22</td>
</tr>
<tr>
<td>C/1/19</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/20</td>
<td>Curve Trough</td>
<td>C/1/10 Curve x 130D</td>
<td>32</td>
<td>340 x 170</td>
<td>10</td>
<td>360</td>
<td>22</td>
</tr>
<tr>
<td>C/1/20</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/21</td>
<td>Curve Trough</td>
<td>C/1/29 Curve x 130D</td>
<td>36</td>
<td>440 x 170</td>
<td>15</td>
<td>440</td>
<td>22</td>
</tr>
<tr>
<td>C/1/21</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/22</td>
<td>Curve Trough</td>
<td>C/1/43 Curve x 130D</td>
<td>40</td>
<td>440 x 340</td>
<td>12</td>
<td>264</td>
<td>22</td>
</tr>
<tr>
<td>C/1/22</td>
<td>Curve Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### TEES

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Type</th>
<th>Trough / Lid Type</th>
<th>Weight (kg)</th>
<th>External Dimensions (mm)</th>
<th>Units Per Pallet</th>
<th>Units Per Load</th>
<th>No of Pallets Per Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/1/6</td>
<td>Tee Trough</td>
<td>C/1/8 x C/1/8</td>
<td>55</td>
<td>250 x 170</td>
<td>10</td>
<td>176</td>
<td>22</td>
</tr>
<tr>
<td>C/1/6</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/7</td>
<td>Tee Trough</td>
<td>C/1/9 x C/1/9</td>
<td>51</td>
<td>220 x 170</td>
<td>10</td>
<td>176</td>
<td>22</td>
</tr>
<tr>
<td>C/1/7</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/8</td>
<td>Tee Trough</td>
<td>C/1/10 x C/1/10</td>
<td>72</td>
<td>340 x 170</td>
<td>20</td>
<td>220</td>
<td>22</td>
</tr>
<tr>
<td>C/1/8</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/9</td>
<td>Tee Trough</td>
<td>C/1/16 x C/1/16</td>
<td>70</td>
<td>220 x 170</td>
<td>20</td>
<td>220</td>
<td>22</td>
</tr>
<tr>
<td>C/1/9</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/10</td>
<td>Tee Trough</td>
<td>C/1/29 x C/1/29</td>
<td>71</td>
<td>440 x 170</td>
<td>25</td>
<td>440</td>
<td>22</td>
</tr>
<tr>
<td>C/1/10</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C/1/29</td>
<td>Tee Trough</td>
<td>C/1/43 x C/1/43</td>
<td>140</td>
<td>440 x 340</td>
<td>12</td>
<td>132</td>
<td>22</td>
</tr>
<tr>
<td>C/1/29</td>
<td>Tee Lid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Ref. No.** Reference number for each product variant.

**Type** Type of product variant.

**Trough / Lid Type** Type of product variant as a trough or lid.

**Weight (kg)** Weight of the product variant in kilograms.

**External Dimensions (mm)** External dimensions of the product variant in millimeters.

**Units Per Pallet** Number of units per pallet.

**Units Per Load** Number of units per load.

**No of Pallets Per Load** Number of pallets per load.
FP McCann has developed a lightweight C series precast troughing system by utilising proven lightweight concrete technology that was traditionally used when manufacturing precast fencing products. The lightweight TroughLite* system has the same dimensions as the company’s traditional products, so that two systems are fully compatible. TroughLite* reduces the concerns associated with manual handling due to a weight reduction of up to 30% when compared to standard concrete.

FP McCann’s TroughLite* system is authorised by the Network Rail Acceptance Panel (NRAP) to be used on railway infrastructure for which Network Rail is the Infrastructure Manager.

Certificate of Acceptance Number: PA05/06217

TroughLite is a cost-effective lightweight product that is up to 50% cheaper than alternative lightweight products currently available.

**BENEFITS**

- Network Rail Approved
- Full range of approved C/1 products available
- Faster installation
- Fire resistant
- Weather resistant
- Sulphur resistant
- Resilient
- Durable
- Up 30% lighter when compared to traditional systems
- Lower on-site labour costs
- Reduction in transportation costs
- Reduced carbon footprint and increased sustainability, as the concrete mix uses over 50% recycled content
- Economical - up to 50% cheaper than alternative products

*NB for special order only
LITTLEPORT OFFICE:
Wisbech Road
Littleport
Ely Cambridgeshire
CB6 1RA
T 01353 861416
sales@fp mccann.co.uk

AGRICULTURE
Lydney 01594 847500  Grantham 01476 562277

ARCHITECTURAL PRECAST
London 020 3905 7640

BOX CULVERTS
Weston Underwood 01335 361269

BUILDING PRODUCTS
Cadeby 01455 290780

DOCK LEVELLERS
Weston Underwood 01335 361269

DRAINAGE
Ellistown 01530 240000 (England/Wales)  Magherafelt 028 7954 9026 (Scotland/NI)

FENCING
Cadeby 01455 290780

FILTER BED SYSTEMS
Wellesbourne 01789 336960

FLOORING
Weston Underwood 01335 361269  Uddingston 01698 803300

POWER & INFRASTRUCTURE
Littleport 01353 861416

RAIL
Littleport 01353 861416

SPECIALIST PRECAST
Littleport 01353 861416

STRUCTURAL PRECAST
Byley 01606 843500  Grantham 01476 562277

TANKS & CHAMBERS
Wellesbourne 01789 336960

TUNNELS & SHAFTS
Cadeby 01455 290780

WALLING
Grantham 01476 562277  Lydney 01594 847500
Uddingston 01698 803 300 (Scotland)  Magherafelt 028 7954 9026 (NI)