

GB EDITION

BUILDING SOLUTIONSQUICK REFERENCE GUIDE

v2.0







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:

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



FP McCann manufactures a wide range of high quality precast concrete products for the construction industry. All of our building products are manufactured to European standards.

CONTENTS

| Lintels | 4 |
|--|----|
| Padstones | 5 |
| Pier Caps / Wall Copings / Gulley Surround | 6 |
| Slotted Posts | 7 |
| Gravel Boards / Deck Posts | 8 |
| Bollards / Universal Posts/ Repair Spurs | 9 |
| Beam and Block / Poly Flooring | 10 |
| Beam and Block Ancillaries | 11 |
| Thermabeam™ | 12 |
| L Walls | 13 |
| Easi-Base™ | 14 |
| Pipes | 16 |
| Manhole Chambers & Soakaways | 18 |
| Manhole Cover Slabs | 20 |
| Adjusting Corbels / Corbel Slabs | 21 |
| Catchpit | 22 |
| Valve Chamber | 23 |
| StormBrake™ Flow Control Chamber | 24 |
| Headwalls | 25 |
| Gullies and Slabs Range | 26 |
| BT Approved Comms Boxes | 28 |
| House Inspection Chambers | 30 |
| Box Culverts | 31 |



FP McCann's range of prestressed concrete lintels and padstones are designed to provide a low cost and resilient masonry support for door and window openings.

The prestressed casting system used to develop lintels ensures consistent high quality and a smooth finish providing safer manual handling. Our lintels and padstones are manufactured to European Standards.

LINTEL LOAD / SPAN TABLE

| Service (kN/m) | | 100 x 65 Flat | 100 x 65 Upright | 140 x 65 Flat | 140 x 65 Upright | 140 x 100 Flat | 100 x 140 Upright |
|-------------------|---------------------|------------------|---------------------|------------------|---------------------|-------------------|----------------------|
| (, | | 0.93 | 1.35 | 1.03 | 2.77 | 3.17 | 4.52 |
| Length | Effective Length | UDL (kN/m) | UDL (kN/m) | UDL (kN/m) | UDL (kN/m) | UDL (kN/m) | UDL (kN/m) |
| 450 | n/a | 82.35 | 120.43 | 91.72 | 245.91 | 281.55 | 401.73 |
| 600 | 450 | 36.60 | 53.52 | 40.77 | 109.29 | 125.13 | 178.55 |
| 750 | 600 | 20.59 | 30.11 | 22.93 | 61.48 | 70.39 | 100.43 |
| 900 | 750 | 13.18 | 19.27 | 14.68 | 39.35 | 45.05 | 64.28 |
| 1050 | 900 | 9.15 | 13.38 | 10.19 | 27.32 | 31.28 | 44.64 |
| 1200 | 1050 | 6.72 | 9.83 | 7.49 | 20.07 | 22.98 | 32.79 |
| 1350 | 1200 | 5.15 | 7.53 | 5.73 | 15.37 | 17.6 | 25.11 |
| 1500 | 1350 | 4.07 | 5.95 | 4.53 | 12.14 | 13.90 | 19.84 |
| 1650 | 1500 | 3.29 | 4.82 | 3.67 | 9.84 | 11.26 | 16.07 |
| 1800 | 1650 | 2.72 | 3.98 | 3.03 | 8.13 | 9.31 | 13.28 |
| 2100 | 1950 | 1.95 | 2.85 | 2.17 | 5.82 | 6.66 | 9.51 |
| 2400 | 2250 | 1.46 | 2.14 | 1.63 | 4.37 | 5.01 | 7.14 |
| 2700 | 2550 | 1.14 | 1.67 | 1.27 | 3.40 | 3.90 | 5.56 |
| 3000 | 2850 | 0.91 | 1.33 | 1.02 | 2.72 | 3.12 | 4.45 |
| 3300 | 3150 | 0.75 | 1.09 | | | 2.55 | 3.64 |
| 3600 | 3450 | 0.62 | 0.91 | | | 2.13 | 3.04 |

NOTES:

- 1. Composite brickwork figures are not included in the above load span table
- 2. Minimum 150mm clear spans, plus a sound bearing length of 150mm minimum at each end. Where 4. Lintels tested in accordance with required, suitable padstones should be used
- 3. The Uniformly Distributed Loads (UDL) above are Serviceability Loads in kN/m and are based 6. High strength lintels are also available
- upon the least of the flexural strength, the shear strength or the load that provides a maximum deflection of L/325 Deflection information is available upon request
- BS EN 845-2:2013 and BS EN 846-9:2016
- 5. Part packs are available on request

LINTEL SIZES / PACK SIZES

Key: Weight (KG) Per Pack / Number Per Pack

| , | | (110 | , | | | Vur | be <u>r</u> | & <u>V</u> | Veig | ht p | er p | ac <u>k</u> | | | | |
|----------------|-----|------|-----------|----|------|-----|-------------|--------------|------|--------------|------|-------------|--------------|----|--------------|----|
| Length (mm) | 100 | | 140 10 | | 140 |) x | 100 | 100 x 100 | | 215 x 100 | | 5 X | 140 x 140 | | 215 x 140 | |
| 450 | 336 | 48 | 450 | 30 | 480 | 48 | - | - | 920 | 40 | - | - | - | - | - | - |
| 600 | 432 | 48 | 600 | 30 | 624 | 48 | 504 | 30 | 1520 | 40 | 612 | 30 | 806 | 28 | - | - |
| 750 | 576 | 48 | 750 | 30 | 768 | 48 | 648 | 30 | 1520 | 40 | 765 | 30 | 756 | 21 | - | - |
| 900 | 672 | 48 | 900 | 30 | 960 | 48 | 792 | 30 | 1840 | 40 | 918 | 30 | 907 | 21 | 932 | 14 |
| 1050 | 768 | 48 | 1050 | 30 | 1104 | 48 | 900 | 30 | 1428 | 40 | 1071 | 30 | 1058 | 21 | 1078 | 14 |
| 1200 | 912 | 48 | 1200 | 30 | 1248 | 48 | 1044 | 30 | 1632 | 40 | 1224 | 30 | 1210 | 21 | 1243 | 14 |
| 1350 | 336 | 16 | 450 | 10 | 464 | 16 | 384 | 10 | 680 | 10 | 459 | 10 | 454 | 7 | - | - |
| 1500 | 368 | 16 | 500 | 10 | 528 | 16 | 432 | 10 | 760 | 10 | 510 | 10 | 504 | 7 | 777 | 7 |
| 1650 | 416 | 16 | 550 | 10 | 576 | 16 | 480 | 10 | 830 | 10 | 561 | 10 | 554 | 7 | - | - |
| 1800 | 448 | 16 | 600 | 10 | 624 | 16 | 516 | 10 | 910 | 10 | 612 | 10 | 605 | 7 | 932 | 7 |
| 1950 | 480 | 16 | 650 | 10 | 672 | 16 | - | - | 990 | 10 | - | - | | - | - | - |
| 2100 | 528 | 16 | 710 | 10 | 736 | 16 | 600 | 10 | 1060 | 10 | 714 | 10 | 706 | 7 | 1088 | 7 |
| 2250 | 560 | 16 | 760 | 10 | 784 | 16 | - | - | 1140 | 10 | - | - | | - | - | - |
| 2400 | 592 | 16 | 810 | 10 | 832 | 16 | 696 | 10 | 1210 | 10 | 816 | 10 | 806 | 7 | 1243 | 7 |
| 2550 | 640 | 16 | 860 | 10 | 896 | 16 | - | - | 1290 | 10 | - | - | | - | - | - |
| 2700 | 672 | 16 | 910 | 10 | 944 | 16 | 780 | 10 | 1370 | 10 | - | - | 907 | 7 | 1399 | 7 |
| 2800 | - | - | 940 | 10 | - | - | - | - | - | - | - | - | | - | - | - |
| 2850 | 720 | 16 | 960 | 10 | 992 | 16 | - | - | 1440 | 10 | - | - | | - | - | - |
| 3000 | 752 | 16 | 1010 | 10 | 1056 | 16 | 864 | 10 | 1520 | 10 | - | - | 1008 | 7 | 1554 | 7 |
| 3150 | - | - | - | - | - | - | - | - | 1590 | 10 | - | - | | - | - | - |
| 3300 | 816 | 16 | 1110 | 10 | - | - | - | - | 1670 | 10 | - | - | | - | 1709 | 7 |
| 3450 | - | - | - | - | - | - | - | - | 1740 | 10 | - | - | | - | - | - |
| 3600 | 896 | 16 | 1210 | 10 | - | - | - | - | 1820 | 10 | - | - | | - | 1865 | 7 |
| 3750 | | - | - | - | - | - | - | - | 1900 | 10 | - | - | | - | - | - |

PADSTONES

| Padstone sizes (mm) | Pack sizes |
|---------------------|------------|
| 215 x 140 x 100 | 48 |
| 215 x 215 x 100 | 48 |
| 300 x 100 x 140 | 48 |
| 300 x 100 x 215 | 48 |
| 330 x 215 x 100 | 48 |
| 380 x 140 x 215 | 48 |
| 440 x 140 x 100 | 48 |
| 440 x 140 x 140 | 48 |
| 440 x 215 x 100 | 48 |
| 440 x 215 x 140 | 48 |
| 440 x 215 x 215 | 48 |
| 600 x 140 x 100 | 24 |
| 600 x 215 x 100 | 24 |



Concrete lintel as used traditionally in used to bridge construction.



Concrete lintel as pipes underground.



Special padstone sizes available on request

PIER CAPS, WALL COPINGS & GULLY SURROUND

PIER CAPS & WALL COPINGS

FP McCann's precast concrete wall copings and pier caps provide an eye-catching and economical finish to various wall designs. The high calibre of these products helps prevent potential wall erosion or discolouring caused by adverse weather conditions. Pier caps and wall copings are available in Saddleback. Standard finish only.

WALL COPING SIZES



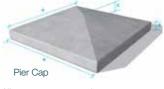
Wall Coping

| Product Code/Description | Pack Sizes |
|------------------------------|---------------|
| Pre SB Coping 125x30x600mm** | 140 |
| Pre SB Coping 175x75x906mm** | 36 |
| Pre SB Coping 285x50x600mm** | 50 |
| Pre SB Coping 302x60x905mm** | 24 |
| Pre TW Coping 165x60x610mm** | 60 |
| Pre TW Coping 305x70x610mm** | 30 |
| Pre TW Coping 355x75x610mm** | 30 |
| Pre TW Coping 405x75x915mm** | 15 |
| Pre OW Coping 165x60x610mm* | 60 |
| Pre OW Coping 305x70x610mm* | 32 |
| Pre OW Coping 355x75x610mm** | 30 |
| Pre OW Coping 405x75x915mm* | 15 |

^{*} Once Weathered ** Twice Weathered Special wall coping sizes available on request

PIFR CAP SIZES

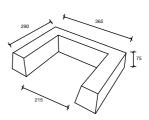
| Saddleback size | A | В | C | No. per pack |
|--------------------|-----|----|-----|-----------------|
| 12" | 300 | 40 | 70 | 30 |
| 16" | 400 | 50 | 85 | 24 |
| 18" | 450 | 50 | 100 | 16 |
| 22" | 560 | 50 | 120 | 8 |



All measurements are in mm.

GULLY SURROUND







With over 30 years' experience in the manufacture of precast concrete products, FP McCann offers a wide range of precast fencing solutions.

| Product Code | Sizes (mm) | Sizes (ft) | No. per Tonne | No per Pack | Individual Weight (kg) | Pack Weight inc. Packaging (kg) |
|-------------------|---------------|---------------|------------------|-------------------|---------------------------|---------------------------------------|
| Slotted Posts - I | ntermed | iates | | | | |
| FPSLP150 | 1525 | 5' | 35.09 | 40 | 28.5 | 1160 |
| FPSLP180 | 1830 | 6' | 28.99 | 40 | 34.5 | 1400 |
| FPSLP210 | 2135 | 7' | 25.42 | 30 | 39.3 | 1200 |
| FPSLP240 | 2440 | 8' | 22.39 | 30 | 44.7 | 1360 |
| FPSLP275 | 2745 | 9' | 18.99 | 30 | 52.7 | 1600 |
| FPSLP305 NEW | 3050 | 10' | 17.86 | 30 | 56.0 | 1700 |
| Slotted Posts - 0 | Corners | | | | | |
| FPSLPC150 | 1525 | 5' | 20.34 | 6 | 49.2 | 301 |
| FPSLPC180 | 1830 | 6' | 17.19 | 6 | 58.2 | 355 |
| FPSLPC210 | 2135 | 7' | 15.00 | 6 | 66.7 | 406 |
| FPSLPC240 | 2440 | 8' | 12.66 | 6 | 79.0 | 480 |
| FPSLPC275 | 2745 | 9' | 11.09 | 6 | 90.2 | 547 |
| Slotted Posts - E | inds | | | | | |
| FPSLPE150 | 1525 | 5' | 32.47 | 10 | 30.8 | 328 |
| FPSLPE180 | 1830 | 6' | 26.46 | 10 | 37.8 | 398 |
| FPSLPE210 | 2135 | 7' | 22.57 | 10 | 44.3 | 463 |
| FPSLPE240 | 2440 | 8' | 20.12 | 10 | 49.7 | 517 |
| FPSLPE275 | 2745 | 9' | 17.83 | 10 | 56.1 | 581 |
| FPSLPE305 NEW | 3050 | 10' | 15.87 | 10 | 63.0 | 1650 |



Heavy-duty and Heavy-duty lightweight slotted posts are also available. In addition, standard morticed and recessed posts are available.

All of the above products are also available in our Fenn-Lite lightweight range.

We also have standard chainlink and cranked top security posts in stock.



GRAVEL BOARDS

| Product Code | Sizes (mm) | Sizes (in) | No.per Tonne | No. per Pack | Individual Weight (kg) | Pack Weight inc. Packaging (kg) | | | | | | |
|------------------------------------|-------------|---------------|-----------------|-----------------|---------------------------|--|--|--|--|--|--|--|
| Gravel Boards For Slotted Posts | | | | | | | | | | | | |
| FPGBP150 Plain | 1830x150x45 | 6" | 36.10 | 40 | 27.7 | 1120 | | | | | | |
| FPGBP305 Plain | 1830x305x45 | 12" | 17.17 | 20 | 58.3 | 1180 | | | | | | |
| FPGBR150 Recessed | 1830x150x45 | 6" | 37.56 | 40 | 26.6 | 1080 | | | | | | |
| FPGBR305 Recessed | 1830x305x45 | 12" | 21.62 | 20 | 46.3 | 940 | | | | | | |
| FPGBRF305 Rock Faced Semi dry | 1830x305x45 | 12" | 19.14 | 20 | 52.3 | 1060 | | | | | | |
| FPGBRF305WC Rock Faced Wet cast | 1830x305x45 | 12" | 18.43 | 20 | 54.3 | 1100 | | | | | | |
| FPGBRF305WCHP Rock | 1830x305x45 | 12" | 16.90 | 16 | 59.1 | 960 | | | | | | |

DECK POSTS

The FP McCann DeckPost is the durable precast solution for your decking requirements. Whether you plan to create an elevated decking area, or simply to level out irregular ground conditions, DeckPost is the obvious choice.

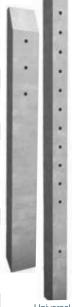


| Product Code | Sizes in mm/in | No. per Tonne | No. per Pack | | Pack Weight inc. Packaging (kg) |
|---------------|---------------------|------------------|-----------------|-------|---------------------------------------|
| PREFPDECP450 | 450x100x100/18x4x4 | 90.91 | 120 | 11.00 | 1340 |
| PREFPDECP600 | 600x100x100/24x4x4 | 71.43 | 72 | 14.00 | 1028 |
| PREFPDECP900 | 900x100x100/36x4x4 | 47.62 | 48 | 21.00 | 1028 |
| PREFPDECP1200 | 1200x100x100/48x4x4 | 37.04 | 36 | 27.00 | 992 |

BOLLARDS, UNIVERSAL POSTS & REPAIR SPURS

| Product Code | Sizes (mm) | Sizes (ft/in) | No. per Tonne | No. per Pack | Individual Weight (kg) | Pack Weight inc. Packaging (kg) | F |
|-----------------|---------------|------------------|------------------|-----------------|------------------------------|--|--------|
| Universal Posts | - Intermediat | | | | | | A 4 |
| FPUNP150 | 1525 | 5' | 27.99 | 36 | 35.7 | 1306 | 3 |
| FPUNP180 | 1830 | 6' | 23.08 | 36 | 43.3 | 1580 | |
| FPUNP210 | 2135 | 7' | 19.85 | 27 | 50.4 | 1380 | |
| FPUNP240 | 2440 | 8' | 16.88 | 27 | 59.3 | 1620 | |
| FPUNP275 | 2745 | 9' | 15.88 | 27 | 63.0 | 1720 | |
| Repair Spurs 3x | | | | | | | |
| FP SUPP 099 3X3 | 990 | 3' 3" | 74.63 | 70 | 13.4 | 953 | |
| FP SUPP 105 3X3 | 1070 | 3' 6" | 69.44 | 70 | 14.4 | 1023 | |
| Repair Spurs 4x | (3 | | | | | | |
| FPSUP090 | 915x100x75 | 3' | 65.73 | 70 | 15.2 | 1080 | |
| FPSUP105 | 1070x100x75 | 3' 6" | 57.14 | 70 | 17.5 | 1240 | |
| FPSUP120 | 1220x100x75 | 4' | 49.82 | 70 | 20.1 | 1420 | |
| FPSUP135 | 1370x100x75 | 4' 6" | 44.16 | 70 | 22.6 | 1600 | |
| Repair Spurs 4x | 4 | | | | | | |
| FPSUP0904X4 | 915x100x100 | 3' | 50.56 | 60 | 19.8 | 1188 | |
| FPSUP1054X4 | 1070x100x100 | 3'6" | 43.90 | 60 | 22.8 | 1368 | |
| FPSUP1204X4 | 1220x100x100 | 4' | 38.50 | 60 | 26.0 | 1560 | |
| FPSUP1354X4 | 1370x100x100 | 4' 6" | 33.58 | 60 | 29.8 | 1788 | |
| Screed Rail | | | | | | | |
| FPSRBF050 | 50x3000 | 2" | 85.46 | 104 | 11.7 | 1237 | |
| FPSRBF100 | 100x3000 | 4" | 38.34 | 48 | 26.1 | 1272 | |
| FPSRBF125 | 125x3000 | 5" | 26.74 | 33 | 37.4 | 1254 | |
| FPSRBF150 | 150x3000 | 6" | 21.43 | 30 | 46.7 | 1420 | |
| Bollards | | | | | | | |
| FPB0L135 | 1370x225 | 4' 6" | 10.96 | 5 | 91 | 475 | |
| | | | | | | | |

Repair Spurs Available in 4"x 4", 4"x 3" & 3"x 3"



Universal Posts



150MM DEEP T BEAM

| Span Load Table - 150mm Deep T Beam | | Sı | | hes = | | 73 | | |
|--|----------------|------------------------|------|-------|------|------|------|-----------------------------|
| Floor case (based on 1400kg/m³ block density) | | 1.5 | 2 | 2.5 | 3 | 4 | 5 | |
| 150 DEEP T BEAM | weight kWm² | Maximum clear span (m) | | | | | | 125 |
| Single beam - full block | 1.78 | 4.30 | 4.10 | 3.90 | 3.74 | 3.46 | 3.24 | |
| Single beam - full block/narrow block, alternate | 1.88 | 4.82 | 4.58 | 4.37 | 4.20 | 3.90 | 3.65 | \downarrow |
| Single beam - narrow block | 2.07 | 5.57 | 5.31 | 5.08 | 4.88 | 4.34 | 4.26 | 110 |

150MM DEEP WIDE BEAM

| Span Load Table - 150mm Deep T Beam | | | shes = | : 1.5kt | _ | \vdash | 126 | | | | |
|--|----------------|------------------------|--------|---------|--------|----------|------|-------------------------|--|-----|--|
| opan zoau razio Podilili Doop i Douli | | | uperim | posed | load i | | | | | | |
| Floor case (based on 1400kg/m³ block density) | Floor self | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 2 | | | |
| 150 DEEP T BEAM | weight kWm² | Maximum clear span (m) | | | | | | 152 | | | |
| Single beam - full block | 1.96 | 4.75 | 4.67 | 4.56 | 4.37 | 4.07 | 3.81 | | | | |
| Single beam - full block/narrow block, alternate | 2.10 | 5.07 | 4.99 | 4.90 | 4.80 | 4.51 | 4.24 | $\downarrow \downarrow$ | | | |
| Single beam - narrow block | 2.33 | 5.48 | 5.40 | 5.30 | 5.25 | 5.10 | 4.83 | K | | 168 | |

BEAM & POLYSTYRENE PANEL FLOORING

FP McCann offers a choice of two energy-efficient beam and polystyrene panel systems.

Top Sheet System

Our top sheet flooring system



incorporates a polystyrene panel which sits within the depth of the floor beam, as well as including an over board top sheet to sit on top of the floor. U-values of 0.11 W/m²K or better can be achieved with our top sheet system.

Undercloaking System

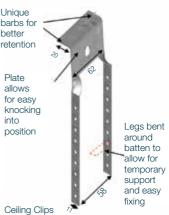
We also supply an undercloaking system which incorporates one panel that fits within the floor beam depth, as well as falling beneath the level of the beam to allow for complete thermal coverage. U-values of 0.08 W/m²K or better can be achieved utilising the undercloaking system.

ANCILLARIES

Alongside our beam and block flooring solutions, we offer relevant ancillary products such as end slips, closure units, ceiling clips, vents and air bricks. These extras will be detailed on our quotation and shown as either an extra-over or an inclusion.







BEAM AND BLOCK ADDITIONAL SERVICES

Supply & Fix

As well as offering products on a supply only basis, we also offer a supply and install service. Any contract undertaken on a supply and fix basis will include labour and plant, as necessary.

Transport

We have a range of delivery vehicles available including articulated vehicles, rear wheel steer trailers or rigid loads. Please contact us for further details.

Merchants

Beams are readily available for stock and can be supplied in standard lengths. Blocks are available on a supply and fix basis only. For further information on this, please contact us.

THERMABEAMTM

THE INNOVATIVE ALTERNATIVE TO BEAM AND BLOCK FLOORING



WHAT IS THERMABEAM™?

Thermabeam™ is an insulated precast flooring system that combines both high performance expanded polystyrene (EPS) insulation and reinforced concrete, forming a continuous layer of insulation across the

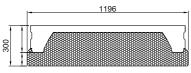
whole floor. The structural concrete is cast onto the insulation, eliminating air gaps, thereby minimising heat loss.

Thermabeam[™] units are available in a standard depth of 300mm, each with a choice of two insulation types - poly or platinum poly. All Thermabeam[™] units are grouted on-site using C25/30 sand cement mortar.

| Thermbeam unit | Perimeter/ Area Ratio | U-Value (W/m²K) | |
|----------------|--------------------------|--------------------|--|
| 300mm | 0.6 | *0.14W/m²K | |

^{*} Figures based on the Platinum Poly Insulation

300mm Thermabeam



1200mm Wide Unit

APPLICATIONS

Residential ground floors.

As well as offering excellent insulating properties, and a significant reduction in cold bridging, the ThermabeamTM system helps to reduce CO² emissions by decreasing the amount of non-renewable energy required to heat the building.

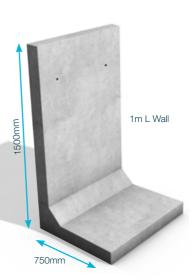
BENEFITS

- · Low on-site costs and space required since units are manufactured off-site
- Fast installation, enabling a safe platform for follow-on trades within a few hours
- Excellent thermal performance due to its insulating properties. A reduction in cold bridging is achieved, resulting in better Psi (ψ) values
- U-Values as low as 0.14W/m² K, based on a P/A ratio of 0.6 can be achieved
- Helps building to achieve a higher energy-efficiency rating
- Reduced safety issues reduced on-site working
- High quality units are designed in accordance with relevant BS EN standards: BS EN 1992-1-1:2004 (Eurocode 2: Design of concrete structures) and BS EN 13224:2001 (Precast Concrete Products – Ribbed Floor Elements
- Low carbon footprint since less energy is required to heat building
- Spans up to 6.5m (depending on load)



FP McCann's precast concrete L shaped retaining walls are ideal for a variety of applications, including earth retention works on new developments.

The speed of construction is a major benefit of the 'L' wall system and the off-site wet casting of the reinforced 'L' walls ensures a consistent factory finish. They can be secured to a concrete base by means of resin and steel dowel rods.



STANDARD L WALL SIZES

The loading 18 kN/m³ is approximately a bulk density of 1800 kg/m³

| Height (mm) | Width (mm) straight unit | Weight (kg) straight unit | Width (mm) corner unit | Weight corner unit (kg) |
|----------------|-----------------------------|------------------------------|---------------------------|----------------------------|
| 1000 | 1000 | 440 | 1000 X 1000 | 790 |
| 1500 | 1000 | 710 | 1000 X 1000 | 1170 |
| 1750 | 1000 | 870 | 1000 X 1000 | 1390 |
| 2000 | 1000 | 1010 | 1000 X 1000 | 1580 |
| 2500 | 1000 | 1500 | 1250 X 1250 | 2950 |
| 3000 | 1000 | 1960 | 1500 x 1500 (2 Piece) | 2350 |
| 3750 | 1000 | 2950 | 2310 x 2310 (4 Piece) | 2780 |

(Include 5% lifting allowance)



DN1200 EASI-BASE™

FP McCann's DN1200 Easi-Base[™] is a prefabricated manhole base unit with integral benching, channels and connectors, that provides an immediate and long-lasting watertight solution in the management of waste water.

PRODUCT BENEFITS

- An extremely fast, efficient and economical method of constructing manhole bases on-site
- · Accepted by all UK water companies
- · Significant health and safety benefits
- An immediate watertight structure, allowing other trades to instantly follow on
- Factory prefabrication provides a quality finish to channelling and benching, and enables accurate combinations and variations for entry/exit pipes
- Connects with any type of pipe and is compatible with the DN1200 130mm thick wide wall chamber ring which eliminates the need for backfilling.
- Maintenance of channels and benches are aided by clean access for inspection
- Eliminates the risk of water pollution that is associated with traditional methods
 of manhole construction, such as concrete base formation integrity failures due
 to bad weather conditions, which results in groundwater being contaminated
 with polluted raw sewerage and clean groundwater infiltrating the already
 overloaded raw sewerage system of pipelines and treatment plants
- The 7th Edition of Sewers for adoption has now been published to include precast bases; Easi-Base™ units are in full accordance with the guidance provided
- · An 80 year guaranteed base

DN1500 - DN3000 EASI-BASES™

FP McCann's bespoke Easi-Bases™ from DN1500 to DN3000 complement our existing manhole ranges and are produced as monolithic units, utilising standard manhole tongue and groove joints for connection with standard manhole chambers. These units are produced wholly from concrete and provide a variety of connection orientations using the Predl Clock System. They can accommodate concrete, clay, twinwall, ductile iron and uPVC pipes from 150mm to 1200mm.

| DN1200 - DN3000 EASI-BASE™ UNIT SIZES | | | | | | | | |
|---------------------------------------|-------------|----------------|-------|--------|--|--|--|--|
| Diameter | Internal | Invert Level | Donth | Moinht | | | | |
| Diameter | Diameter | (for take off) | Depth | Weight | | | | |
| DN1200 | 150 | 370 | 520 | 1.7 | | | | |
| DN1200 | 150 | 445 | 595 | 1.8 | | | | |
| DN1200 | 150 | 520 | 670 | 1.9 | | | | |
| DN1200 | 225 | 470 | 620 | 2.2 | | | | |
| DN1200 | 225 | 545 | 695 | 2.4 | | | | |
| DN1200 | 225 | 620 | 770 | 2.5 | | | | |
| DN1200 | 300 | 520 | 670 | 2.4 | | | | |
| DN1200 | 300 | 595 | 745 | 2.5 | | | | |
| DN1200 | 300 | 670 | 820 | 2.7 | | | | |
| DN1500 | 150 | 470 | 750 | 3.5 | | | | |
| DN1500 | 225 | 545 | 750 | 3.5 | | | | |
| DN1500 | 300 | 600 | 750 | 3.5 | | | | |
| DN1500 | 375 | 705 | 1000 | 4.6 | | | | |
| DN1500 | 450 | 810 | 1000 | 4.4 | | | | |
| DN1500 | 525 | 920 | 1250 | 4.7 | | | | |
| DN1500 | 600 | 1000 | 1250 | 4.75 | | | | |
| DN1800 | 150 | 470 | 750 | 6 | | | | |
| DN1800 | 225 | 545 | 750 | 6 | | | | |
| DN1800 | 300 | 600 | 750 | 6 | | | | |
| DN1800 | 375 | 705 | 1000 | 6.5 | | | | |
| DN1800 | 450 | 810 | 1000 | 6.5 | | | | |
| DN1800 | 525 | 920 | 1250 | 7 | | | | |
| DN1800 | 600 | 1000 | 1250 | 6.5 | | | | |
| DN1800 | 675 | 1150 | 1400 | 8 | | | | |
| DN1800 | 750 | 1200 | 1500 | 7.75 | | | | |
| DN1800 | 825 | 1300 | 1500 | 7.5 | | | | |
| DN1800 | 900 | 1300 | 1500 | 6.75 | | | | |
| DN2100* | †150 - 1200 | 1900 | 2436 | Δ 10.5 | | | | |
| DN2400* | 150 -1200 | 1900 | 2436 | Δ 10.5 | | | | |
| DN2400* | 150 - 450 | 675 | 1175 | Δ 7.8 | | | | |
| DN2400* | 525 | 775 | 1275 | Δ 8.1 | | | | |
| DN2400* | 600 | 925 | 1425 | Δ 8.5 | | | | |
| DN2400* | 675 - 825 | 1185 | 1685 | Δ7 | | | | |
| DN2400* | 900 | 1435 | 1935 | Δ7 | | | | |
| DN2400* | 1050 | 1685 | 2185 | Δ 7.8 | | | | |
| DN2400* | 1200 | 1935 | 2435 | Δ 8.5 | | | | |
| DN2700* | 150 - 450 | 675 | 1175 | Δ 9.7 | | | | |
| DN2700* | 525 | 775 | 1275 | Δ 10.1 | | | | |
| DN2700* | 600 | 925 | 1425 | Δ 10.6 | | | | |
| DN2700* | 675 - 825 | 1185 | 1685 | Δ 8.8 | | | | |
| DN2700* | 900 | 1435 | 1935 | Δ 8.8 | | | | |
| DN2700* | 1050 | 1685 | 2185 | Δ 9.7 | | | | |
| DN2700* | 1200 | 1935 | 2435 | Δ 10.6 | | | | |
| DN3000* | 150 - 450 | 675 | 1175 | Δ 10.8 | | | | |
| DN3000* | 525 | 775 | 1275 | Δ 11.1 | | | | |
| DN3000* | 600 | 925 | 1425 | Δ 12 | | | | |
| DN3000* | 675 - 825 | 1185 | 1685 | Δ9.6 | | | | |
| DN3000* | 900 | 1435 | 1935 | Δ 9.6 | | | | |
| DN3000* | 1050 | 1685 | 2185 | Δ 10.8 | | | | |
| DN3000* | 1200 | 1935 | 2435 | Δ12 | | | | |

PRODUCT QUALITY

- Easi-Base™ is a Kitemark product, manufactured and tested to BS EN 1917
- · WRc tested and approved
- Easi-Base™ is accepted for use by all major UK water companies

All sizes are in mm * 2 part unit / max ∆ per unit † 1 unit ex Knockloughrim depot

SEALANT

| DN1200 | 12mm x 120mm x 4.2m |
|---------------|---------------------|
| DN1500 | 12mm x 120mm x 5.2m |
| DN1800/DN2100 | 12mm x 120mm x 6.0m |



All of our spigot and socket pipes are manufactured and CE marked in accordance with European Standard BS EN 1916. the specification for unreinforced and reinforced concrete pipes (including jacking pipes) and fittings with flexible joints. They are also designed to meet BS 5911 for concrete pipes and ancillary products. We also stock rocker pipes, as well as one piece, two piece and three piece bends.

| Nominal Size | DN | 300 | 375 | 450 | 525 | 600 | 675 |
|------------------------|----------|------|------|------|------|------|------|
| Internal Diameter | | 300 | 375 | 450 | 525 | 600 | 675 |
| Barrel Diameter | | 416 | 505 | 590 | 685 | 790 | 901 |
| Socket Diameter | | 497 | 575 | 665 | 760 | 852 | 960 |
| Effective Length | MM | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Actual Weight | | 454 | 616 | 812 | 996 | 1420 | 1856 |
| Reinforced | | N | N | N | N | N | N |
| Approx. Pipes per load | | 61 | 45 | 34 | 28 | 22 | 15 |
| Chamber Ring to suit † | | 1200 | 1350 | 1350 | 1500 | 1500 | 1500 |
| MOL Availability | | Υ | Υ | Υ | Υ | Υ | N |
| Crushing Strengths | Kn/M | 36 | 45 | 54 | 63 | 72 | 81 |
| Nominal Joint Gap | MM | 4 | 4 | 4 | 4 | 4 | 4 |
| Maximum Joint Gap | MM | 34 | 34 | 34 | 34 | 34 | 34 |
| Maximum Deflection | °Degrees | 2 | 2 | 2 | 2 | 2 | 2 |

† Minimum chamber ring size to suit pipe = DN size of pipe + 900











Rocker Pipe



Socket Butt Pipes



Spigot Butt Pipes



Two Piece Bend



Three Piece Bend



One Piece Bend



| 750 | 825 | 900 | 1050 | 1200 | *1350 | *1500 | *1800 | *2100 | *2400 |
|------|------|------|------|------|-------|-------|-------|-------|-------|
| 750 | △805 | 900 | 1050 | 1200 | 1350 | 1500 | 1800 | 2100 | △2380 |
| 996 | 975 | 1080 | 1266 | 1460 | 1620 | 1800 | 2130 | 2460 | 2750 |
| 1060 | 1130 | 1235 | 1420 | 1590 | 1800 | 2010 | 2380 | 2650 | 2750 |
| 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| 2194 | 1690 | 2060 | 2760 | 3630 | 4290 | 5330 | 7300 | 9160 | 10070 |
| N | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ |
| 12 | 17 | 13 | 10 | 8 | 6 | 5 | 4 | 3 | 2 |
| 1800 | 1800 | 1800 | 2100 | 2100 | 2400 | 2400 | 2700 | 3000 | 3600 |
| N | N | N | N | N | N | N | N | N | N |
| 90 | 99 | 108 | 126 | 144 | 162 | 180 | 216 | 252 | 288 |
| 4 | 4 | 4 | 5 | 5 | 5 | 7 | 7 | 7 | - |
| 34 | 34 | 34 | 34 | 36 | 36 | 36 | 41 | 41 | - |
| 1 | 1 | 1 | 1 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | - |
| | | | | | | | | | |

^{*} Lifting anchors available ^ Please note internal dimensions



FP McCann now provide a new type of integral seal for their precast concrete pipes. This new integrated seal is a simple, one-piece rubber compression connector which is embedded in the concrete when the pipe is cast. The seal is compressed between the pipe and the concrete, creating a flexible watertight seal.



MANHOLE CHAMBERS (TONGUE & GROOVE JOINT)

| Nominal | Ava | ilable Depth | of Section | Wall Thickness | | |
|----------------------|------------------|------------------|------------------|-------------------|-----------|--|
| Size (A) (DN)(mm) | 250mm (±25mm) | 500mm (±25mm) | 750mm (±50mm) | 1000mm (±50mm) | (C) mm | |
| 900 | ✓ | ✓ | ✓ | ✓ | 70 | |
| 1050 | \checkmark | \checkmark | \checkmark | \checkmark | 80 | |
| 1200 | \checkmark | \checkmark | \checkmark | \checkmark | 90 | |
| 1350 | | \checkmark | \checkmark | \checkmark | 95 | |
| 1500 | | \checkmark | \checkmark | \checkmark | 100 | |
| 1800 | | \checkmark | \checkmark | \checkmark | 115 | |
| 2100 | | \checkmark | \checkmark | \checkmark | 125 | |
| 2400 | | \checkmark | ✓ | \checkmark | 140 | |
| 2700 | | \checkmark | \checkmark | \checkmark | 150 | |
| 3000 | | ✓ | ✓ | \checkmark | 190 | |
| 3600 | | \checkmark | \checkmark | \checkmark | 185 | |
| 4000 | | | ✓ | \checkmark | 200 | |

MOL from 900-1500 / * 2 piece chamber ring - 3600kg per piece

 \triangle 570 long wavy tail anchors

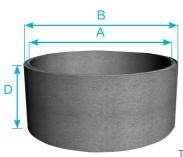
PRODUCT INFORMATION

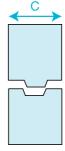
- FP McCann's manhole chamber rings are manufactured with tongue and groove joints and comply with BS EN 1917 / BS 5911-3
- Manhole chambers from DN900 -DN1800 have 3 lifting points
- Manhole chambers from DN2100 - DN3000 have 4 lifting points
- DN3600 and DN4000 are outside of the scope of the British Standard (Non-Kitemark), but comply with all relevant provisions of the European Standard. DN4000 is supplied in two halves

NB: NI have 3 lifting points

WIDE WALL MANHOLE CHAMBERS

| Nom Size (m | DN | 250mm (±25mm) | 500mm (±25mm) | 750mm (±50mm) | 1000mm (±50mm) | Wall Thickness (mm) |
|-------------------|------|------------------|------------------|------------------|-------------------|---------------------------|
| | 1200 | \checkmark | \checkmark | \checkmark | \checkmark | 130 |
| | 1500 | \checkmark | \checkmark | \checkmark | \checkmark | 130 |
| | 1800 | \checkmark | \checkmark | \checkmark | \checkmark | 130 |





Tongue and Groove Joint Profile

| Litres per metre | Barrel Diameter (B) (mm) | Approx Weight Kg. (per metre) | Approx. Products per Ioad Qty. (metre) | Lifting Hole Qty/Dia. (per /unit) (mm) |
|------------------------|--------------------------------|-------------------------------------|---|---|
| 656 | 1040 | 520 | 38 | 3 x 45 |
| 894 | 1210 | 690 | 34 | 3 x 45 |
| 1167 | 1380 | 880 | 26 | 3 x 45 |
| 1478 | 1540 | 1050 | 22 | 3 x 45 |
| 1824 | 1710 | 1300 | 16 | 3 x 45 |
| 2544 | 2030 | 1750 | 12 | 3 x 45 |
| 3464 | 2350 | 2040 | 10 | 4 x 50 |
| 4514 | 2680 | 2790 | 8 | 4 x 50 |
| 5725 | 3000 | † 3400 | 8 | 4 x 50 |
| 7069 | 3380 | † 4700 | 5 | 4 x 50 |
| 10179 | 3970 | 5400 | 5 | △ 3 x RD30 |
| 12566 | 4400 | *7200 | 4 | △ 4 x RD36 |

Dia ± 5mm

MANHOLE SOAKAWAY CHAMBERS

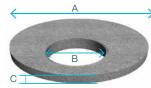
| Nominal Size | | No. of 75mm holes per chamber | | Wall Thick- | Litres per | Barrel | Approx Weight | Approx. Products |
|-----------------|-----------|----------------------------------|------------|----------------|---------------|------------|------------------|-----------------------------|
| DN (mm) | 500 mm | 750 mm | 1000 mm | ness mm | metre ring | Dia. mm | Kg. (p/metre) | per load Qty. (metre) |
| 900 | 5 | 8 | 10 | 70 | 656 | 1040 | 520 | 46 |
| 1050 | 6 | 9 | 12 | 80 | 894 | 1210 | 690 | 34 |
| 1200 | 7 | 10 | 14 | 90 | 1167 | 1380 | 880 | 26 |
| 1350 | 8 | 11 | 15 | 95 | 1478 | 1540 | 1050 | 22 |
| 1500 | 8 | 13 | 17 | 100 | 1824 | 1710 | 1300 | 18 |
| 1800 | 10 | 15 | 20 | 115 | 2544 | 2030 | 1750 | 12 |
| 2100 | 12 | 18 | 24 | 125 | 3464 | 2350 | 2040 | 10 |
| 2400 | 14 | 20 | 27 | 140 | 4514 | 2680 | 2790 | 8 |
| 2700 | 15 | 23 | 31 | 150 | 5725 | 3000 | †3400 | 6 |
| 3000 | 17 | 25 | 34 | 190 | 7069 | 3380 | †4700 | 5 |
| *3600 | 20 | 31 | 41 | 185 | 10179 | 3970 | 5400 | 5 |
| *4000 | 23 | 34 | 45 | 200 | 12566 | 4400 | 6800 | 1.5 |

| Barrel Diameter (mm) | Approx Weight Kg. (p/metre) | Approx. Products per load Qty. (metre) | 36mm Lifting Pin 0.7t SWL | 42mm Lifting Pin 3.5t SWL | 3 leg lifting chain SWL 3.1t | | |
|----------------------------|-----------------------------------|--|---------------------------------|---------------------------------|------------------------------------|--|--|
| 1460 | 1520 | 16 | Lifting clutch | es. FP McCann | \checkmark | | |
| 1760 | 1645 | 14 | supply recon | supply recommended and | | | |
| 2060 | 1970 | 12 | approved lift | ing clutches. | \checkmark | | |

MANHOLE COVER SLABS







| | | | STANDARD COVER SLABS | | | STANDARD | REDUCIN | G SLABS |
|-----------------------|----------|-----------------------|---|--------------|----------------|---------------------|---|----------------------|
| Chamber | Outside | Slab | Opening Con | figuration B | | Opening | Effective | |
| DN (mm) | (A) (mm) | Thickness (C) (mm) | Size (mm) | Location | Weight (kg) | Diameter B (mm) | Depth (mm) | Weight (kg) |
| 900 | 1080 | 150 | 600x600 675x675 | CENTRAL | 215 | | | |
| 1050 | 1240 | 150 | 600x600 675x675 | ECCENTRIC | 315 | | | |
| 1200 | 1450 | 150 | 750x750 600x600 675x675 750x600 | CENTRAL | 455 | 900 | 200 | 385 |
| 1350 | 1580 | 170 | 600x600 675x675 750x600 | ECCENTRIC | 650 | 1050 | 200 | 695 |
| | | | 1200x675 | CENTRAL | | 1200 | 200 | 550 |
| 1500 | 1740 | 175 | 600x600 675x675 750x600 | ECCENTRIC | 980 | 900 1050 1200 | 200 200 200 | 981 835 680 |
| 1800 | 2070 | 175 | 1200x675 600x600 675x675 750x600 1200x675 | CENTRAL | 1460 | 900 1050 1200 | 200 200 200 | 1495 1350 1220 |
| 2100 | 2380 | 200 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 2180 | 900 1050 1200 | 200 200 200 | 2130 2690 2540 |
| 2400 | 2710 | 200 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 2800 | 900 1050 1200 | 200 200 200 | 2815 2690 2540 |
| 2700 | 3030 | 230 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 3750 | 900 1050 1200 | 200 200 250 | 3695 3550 3410 |
| 3000 | 3420 | 200 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 4970 | 900 1050 1200 | 200 200 200 | 4970 4970 4970 |
| *3600 Two Piece | 4000 | 300 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 9250 | | | n deep |
| *4000 Two Piece | 4500 | 300 | 600x600 675x675 750x600 1200x675 | ECCENTRIC | 11700 | | m and 400 neter cove e in a 2 pie | r |

Note:

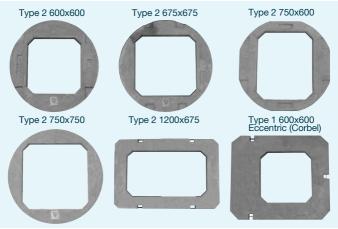
Cover Slab sizes 900-3000 are manufactured in accordance with BS 5911-3. DN3600 and 4000 cover slabs are generally designed in accordance with BS EN 1992-1-1, (for 30 units of Type HB loading, can also be designed to withstand 45 units of Type HB loading).

 $^{^{\}star}$ Weights for DN3600 and DN4000 are estimated weights based on solid slabs.

ADJUSTING UNITS & CORBEL SLABS

FP McCann manufactures a full range of adjusting units and corbel slabs that have the following advantages:

- · Designed as seating for manhole cover
- · Eliminates laying engineering bricks on-site
- · Quicker to lay, ensuring reduced labour costs
- 65mm thick similar to brickwork
- Sits on top of the manhole cover slab
- Eliminates brickwork vertical joint weakspots
- Quality product produced by vibration process
- · Comprehensive strength, similar to Class B.Eng bricks

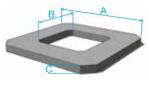


| Manhole Type | Diameter (mm) | Opening Size (mm) | No. per Pack | Thickness (mm) | Weight (kg) |
|-----------------|------------------|-------------------|-----------------|----------------|----------------|
| Type 2 | 1050 | 600 x 600 | 15 | 65 | 70 |
| Type 2 | 1050 | 675 x 675 | 15 | 65 | 55 |
| Type 2 | 1050 | 750 x 600 | 15 | 65 | 60 |
| Type 2 | 1050 | 750 x 750 | 10 | 65 | 45 |
| Type 2 | 1575 x 1050 | 1200 x 675 | 6 | 75 | 160 |
| Type 1 | 1175 x 1025 | 600 x 600 | 10 | 65 | 125 |

Note: A 600 x 600 eccentric corbel slab is also available when using a ladder BS EN 1917 and BS 5911

LOTHIAN SLAB

| Size (A) (mm) | Slab Thickness (C) (mm) | Openings (B) (mm) | Approx. Weight (kg) |
|------------------|-------------------------------|-------------------------------|---------------------------|
| 1125x1125 | 75 | 600x600 675x675 750x600 | 140 |
| 1125x1125 | 150 | 600x600 675x675 | 290 |





The catchpit effectively provides a sealed sump manhole, a monolithic precast concrete unit fitted with connector seals, which can be used to connect to the following types of pipe: uPVC, twinwall, clay, ductile iron and concrete. The catchpit is designed to accommodate pipe sizes DN150 to DN1800 and is in line with highway specification.

- Creates an immediate watertight structure
- Prefabricated off-site (minimising on-site labour and costs)
- · Quick and efficient to install
- Accommodates connection to all types of pipe used in road and manhole construction
- Safety benefits gained in the construction
 of manholes as the pre-formed sump and connect seals eliminate
 on-site construction, thus greatly reducing labour activity within the
 manhole
- Quality is greatly increased as construction is within the factory environment and complies with BS EN 1917 and BS 5911
- · Eliminates material wastage associated with current in-situ method
- Yields environmental benefits such as lower carbon footprint, less concrete used on-site and less excavated material removed from site
- Bespoke designs available

| Nominal Size (dn) | Height (mm) | + Max. Pipe Size (mm) | Chamber OD (mm) | Wall Thick- ness (mm) | Capacity (I) |
|----------------------|----------------|--------------------------|--------------------|--------------------------|--------------|
| DN1050 | * 1000 | 300 | 1210 | 80 | 650 |
| DN1200 | * 1000 | 300 | 1380 | 90 | 870 |
| DN1500T1 | * 1400 | 600 | 1800 | 150 | 1800 |
| DN1500T2 | * 2400 | 675 | 1800 | 150 | 3300 |
| DN1800T1 | * 1500 | 600 | 2100 | 150 | 2700 |
| DN1800T2 | * 2400 | 900 | 2100 | 150 | 5100 |
| DN2100 | * 2400 | 1350 | 2400 | 150 | 7000 |
| DN2400 | * 2700 | 1800 | 2700 | 150 | 10,500 |

Height can be reduced to suit customers' requirements Based on 300mm sump. If a non-standard invert level is required, please specify when ordering
 Lightweight catchpits (available on request)

VALVE CHAMBER

FP McCann designs and manufactures a bespoke range of reinforced valve chambers capable of housing any size and type of valve/pump. Valve chambers consist of a precast concrete sealed sump manhole with factory-fitted saddles to house the pump, and are used in the management of water, oils and chemicals.

| Chamber Diameter | 1200 - 3000mm |
|----------------------|---|
| Chamber Height | 900mm |
| Stool | Bespoke to project requirements |
| Pipe Size | 150 - 375mm |
| Inlets / Outlets | Will vary to accommodate pipe size |
| Cover Slab Thickness | Will vary in accordance with chamber diameter |
| Base Thickness | 250mm |

- · Immediate watertight structure
- Reduced installation time/costs
- · Accommodates connection to all types of pipe, including concrete, metallic, HDPE and clay
- Pump is raised off the ground and sits on a preformed concrete stool
- · Easy and clean access for operation and inspection







| **Approx. V | Veight (kg) | No.of Units per Load | Lifting Hole Qty/ da/ per unit |
|---------------|-------------|-------------------------|--------------------------------|
| | 1380 | 19 | 3no. ø45 lifting holes |
| | 1600 | 16 | 3no. ø16 sockets and loops |
| | 4700 | 5 | 3no. utility anchors |
| | 7700 | 4 | 3no. utility anchors |
| | ^ 6300 | 4 | 3no. utility anchors |
| | 8300 | 3 | 3no. utility anchors |
| ^ 9000 | 11000 | 3 | 3no. utility anchors |
| ^ 11700 | 14000 | 2 | 3no. utility anchors |

- Maximum weight of a solid, full height unit with no holes
- Based on a standard catchpit only. If larger pipe sizes are required, please contact FP McCann



A NEW FORCE IN VORTEX FLOW TECHNOLOGY



Vortex Flow Controls are commonly used in drainage schemes to regulate the stormwater runoff from urban areas. Through the use of vortex flow technology, FP McCann's StormBrake™ provides a solution to a variety of stormwater management problems. These include accurately controlling stormwater flow, minimising upstream storage requirements and reducing the risk of blockages

compared to traditional orifice plates.

FP McCann's StormBrake™ flow control chamber combines an integral base and side walls with provision for inlet and outlet connections.

It can be used in a number of applications, including:

- As a silt-trap
- As a valve chamber
- As a flow rate controller (requires installation of FP McCann's StormBrake[™] flow control device, sold separately)

- Minimal maintenance required after installation. FP McCann's StormBrake™ is self-activating and functions without any mechanical components
- Outlet areas of up to 6 times larger than an equivalent orifice plate, significantly reducing the risk of blockages and the associated maintenance costs
- · Reduces the amount of upstream storage required, minimising the cost of providing attenuation facilities
- Accurately designed to meet a wide range of design conditions. For design conditions outside of this range, please contact FP McCann directly
- Contains a bypass door which can be manually opened at ground level using a pull cable to allow easy access for inspection or blockage removal
- · Provides minimal flow restriction at low upstream heads to allow fast discharge of water during the initial stages of a storm





FP McCann's precast concrete headwalls provide an ideal end connection point to outfall pipes into open watercourses such as rivers, culverts, collection and balancing ponds. They are a very efficient alternative to intrusive shuttering of soil embankments and costly on-site formwork with ready-mixed concrete, making them particularly suitable for use in hard-to-reach locations and in environmentally sensitive area.

- · Headwalls are designed to EC2 and manufactured to BS EN 13369. (Full design calculations available to illustrate design assumptions).
- Prefabricated off-site
- · Speedy and efficient to install
- · Durable, long-lasting and low maintenance
- · No on-site shuttering or formwork required
- Provides immediate stability and reduces soil erosion
- Cost-effective solution



| Headwall Range | Up to & including Pipe Sizes | Max Pipe O.D. mm | Approx. Weight (Kg) |
|-------------------|------------------------------------|---------------------|---------------------------|
| HW Small 100 | 300 | 450 | 1100 |
| HW Small 150 | 300 | 450 | 1390 |
| HW Medium 100 | 450 | 630 | 1540 |
| HW Medium 150 | 450 | 630 | 2020 |
| HW Large 100 | 900 | 1080 | 3020 |
| HW Large 200 | 900 | 1080 | 4740 |
| HW XL-T1 | 1500 | 1800 | Part A / B 4725 |
| HW XL-T2 | 1050 | 1260 | Part A / B 4095 |
| HW XL-T3 | 675 | 885 | Part A / B 3465 |
| HW XL-T4 | 375 | 505 | Part A / B 2646 |
| HW XXL-T1 | 2100 | 2460 | Part A / B 10,150 |
| HW XXL-T2 | 1500 | 1800 | Part A / B 9205 |
| HW XXL-T3 | 1050 | 1260 | Part A / B 8421 |
| HW XXL-T4 | 525 | 675 | Part A / B 6915 |



GULLIES

FP McCann provides an extensive range of gullies and gully cover slabs. Our road gullies and gully cover slabs are manufactured in accordance with BS 5911-6. Our precast concrete gullies are extremely robust and ideal for both domestic and heavy duty use.

| Dim | ensions (m | ım) | Nominal | Approx. | No. per |
|----------------------|------------|--------|----------------|----------------------|---------|
| Diameter Internal | Depth | Outlet | Weight (Kg) | Capacity (litres) | load |
| 375 | 750 | 150 | 180 | 51 | 66 |
| 375 | 900 | 150 | 200 | 67 | 66 |
| 450 | 750 | 150 | 215 | 71 | 60 |
| 450 | 900 | 150 | 255 | 95 | 60 |
| 450 | 1050 | 150 | 270 | 118 | 60 |
| 450 | 1200 | 150 | 280 | 142 | 60 |



- The seal has been cast-in, thus preventing loss or damage on-site
- An integral seal and rodding eye for universal sealing characteristics
- · The rodding eye closure has been recessed into the concrete to help eliminate dislodgment
- · Reduced thickness, giving reduced weight and a smaller footprint for better vehicle utilisation
- Improved system that helps prevent any discharge of oil
- The gully is fully universal, suitable for all plastic and clay drainage products from 160mm to 186mm diameter
- Does not lose shape
- · Does not float (self weight inhibits flotation)

GULLY COVER SLABS





STANDARD GULLY COVER



| Dimensions (mm) | Stand | ard | Horses | shoe |
|-----------------|-------|-----|--------|------|
| Length (A) | | 750 | | 600 |
| Width (B) | | 650 | | 650 |
| Thickness (C) | | 100 | | 100 |
| Weight (kg) | | 70 | | 58 |
| Hole Size (D) | 375 | 450 | 375 | 450 |
| Qty/Pack | | 12 | | 12 |

The Gully Cover Slab is designed as seating for a gully grate

- · Quicker to lay, ensuring reduced labour costs
- Use on top of 450mm diameter gully
- · Eliminates laying engineering bricks on-site
- · Sits flush to kerb for enhanced stability
- 100mm thick single piece unit
- · Eliminates brickwork vertical joint 'weakspots'
- · Greater stability than brickwork
- Quality product produced by vibration process
- · Compressive strength similar to Class B.Eng. bricks



BT COMMS **BOXES**

Unique cable and junction protection boxes are made from reinforced concrete and can be installed in minutes, with the one piece construction design providing easy access for cable jointing and maintenance.

Communications boxes are mainly used in infrastructure works to include airports, railway projects, roads and housing developments. Cable pit chambers and other units for street lighting are also available in different sizes.

FEATURES

- Reinforced concrete walls
- Integrated reinforced base*
- Base incorporating sump*
- Splayed base to aid stability*
- · Preformed cable entry points
- · Easily manoeuvred with lifting eyes
- Ironmongery fitted^
- Suitable for up to 30 units HB loading
- Plastic encapsulated steps fitted*^
- Complementary lids are available from good Builders Merchants
- Bespoke duct arrangements available on request
- * Comms J4 has no base, sump or steps
- ^ Comms DP has no ironmongery or steps fitted

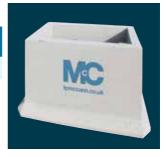
COMMS 600

| Length | Width | Height | Weight |
|--------|-------|--------|--------|
| (mm) | (mm) | (mm) | (kg) |
| 600 | 600 | 750 | |



COMMS C2

| Length | Width | Height | Weight |
|--------|-------|--------|--------|
| (mm) | (mm) | (mm) | (kg) |
| 1200 | 600 | 895 | 1440 |



COMMS J4

| Length | Width | Height | Weight |
|--------|-------|--------|--------|
| (mm) | (mm) | (mm) | (kg) |
| 910 | 440 | 800 | |



COMMS DP

| Length | Width | Height | Weight |
|--------|-------|--------|--------|
| (mm) | (mm) | (mm) | (kg) |
| 910 | 890 | 1000 | |



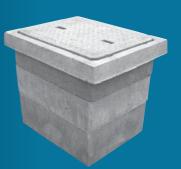
COMMS MCX EXTRA FEATURES

- Highway construction details MCX compliant
- *Complementary reinforced concrete riser and cover slab are available from FP McCann



| Dimensions | Length (mm) | Width (mm) | Height (mm) | Weight (kg) |
|-------------------------|-------------|------------|-------------|-------------|
| Chamber | 1300 | 850 | 900 | 2100 |
| Riser | 1300 | 850 | 300 | 300 |
| Concrete Cover Slab* | 1570 | 1120 | 150 | 300 |

HOUSE INSPECTION CHAMBERS



FP McCann's precast concrete inspection chambers are available in four sizes and are manufactured in accordance with BS EN 1917/ BS5911. Each section has a tongue and groove joint and can be sealed with a sand and cement mortar or bitumen sealant.

The precast concrete frame (also known as a surround) and lid combination is designed to sit flush with the top course, such as tarmac or concrete surfacing or in grassy areas.

The lid features an anti-slip chequered finish and recessed lifting points to allow removal from the frame by use of standard lifting eyes.

| Description Units (mm) | **Weight per unit (mm) | No. of units per pallet | Wall/Slab thickness (mm) |
|---|---------------------------|----------------------------|-----------------------------|
| 600x450x150 section | 40 | 12 | 40 |
| 600x450x225 section | 65 | 8 | 40 |
| 600x450x300 section | 85 | 6 | 40 |
| 600x450x100 frame | 45 | 8 | 100 |
| 600x450x55 lid | 50 | 16 | 55 |
| 750x600x150 section | 60 | 6 | 55 |
| 750x600x250 section | 100 | 4 | 55 |
| 750x600x70 cover slab (600x450 access) | 75 | 8 | *70 |
| 1000x675x150 section | 94 | 6 | 60 |
| 1000x675x250 section | 130 | 4 | 60 |
| 1000x675x76 cover slab (600x450 access) | 130 | 8 | *75 |
| 1200x750x150 section | 120 | 6 | 75 |
| 1200x750x250 section | 200 | 4 | 75 |
| 1200x750x80 cover slab (600x600 access) | 185 | 6 | *80 |

^{*} Effective thickness ** Approximate weights



Designed and manufactured in accordance with all current design specifications and relevant standards, FP McCann's box culverts are available in span sizes from 1000mm to 6000mm and internal heights from 500mm to 3600mm. With our extensive range of moulds, we also strive to accommodate non-standard variances, along with any other internal features requested by the client.

BOX CULVERT APPLICATIONS

- Attenuation and storage tanks
- Water course diversion.
- · Open channels
- Road crossings
- Pedestrian and vehicle subways
- Shafts
- Service tunnels and ducts
- Conveyor protection

EASE OF INSTALLATION

FP McCann's box culverts can be easily positioned in shallow or deep fill installations.

STRUCTURAL STRENGTH AND LONG LIFE PERFORMANCE

Our durable box culvert system meets the design life requirements for buried structures. Minimum maintenance is required.

FLEXIBLE SIZES AND INTERNAL FEATURES

Our box culverts can be manufactured in a range of sizes and accommodate features such as dry weather flow channels, mammal ledges and tapered and skewed units, if required.



Box culvert with wing walls



CADEBY OFFICE:

Brascote Lane Nuneaton Cadeby Warwickshire CV13 0BB

T 01455 290780 | sales@fpmccann.co.uk

AGRICULTURE

Lydney 01594 847500 Grantham 01476 562277

ARCHITECTURAL PRECAST

Byley 01606 843500 Grantham 01476 562277

Littleport 01353 861416

ROY CHIVERTS

Weston Underwood 01335 361269

RIIII DING PRODUCTS

Cadeby 01455 290780

DOCK LEVELLER PITS

Weston Underwood 01335 361269

DRAINAGE

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

FENCING

Cadeby 01455 290780

FILTER BED SYSTEMS

Littleport 01353 861416

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

Littleport 01353 861416

TANKS & CHAMBERS

Littleport 01353 861416

TUNNELS & SHAFTS

Cadeby 01455 290780

WALLING

Grantham 01476 562277 Lydney 01594 847500

Uddingston 01698 803 300 (Scotland) Magherafelt 028 7954 9026 (NI)