

NI/ROI EDITION

PRODUCT PORTFOLIO QUICK REFERENCE GUIDE





With seven quarries, six ready mix concrete plants, three precast concrete manufacturing plants and a sandpit situated across Northern Ireland, the geographical spread of FP McCann's facilities gives us the ability to meet the building material and concrete needs of a variety of industrial sectors.

FP McCann provides the following product categories: ready mix concrete, quarry stone and aggregates, building products, precast concrete walling, agricultural and drainage products and surfacing products.

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.

In Northern Ireland, FP McCann is spread over the following seven divisions: Ready Mix Concrete, Quarrying, Precast Concrete, Dry Silo Mortar, Surfacing, Construction and FP McCann Homes.

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7. Drainage

2. Quarry Stone/Aggregate		The Benefits Of Concrete Drainage 36			
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FP McCann supplies ready mixed concrete, mortar and screed solutions to the construction industry. All products are specifically designed for a wide range of applications including house building, industrial, commercial and agricultural applications. Our modern Ready Mix facilities use the very latest in computerised batching systems and are operated by a skilled and experienced workforce to ensure a consistent quality. FP McCann is a QSRMC registered company and holds a current a QSRMC certificate. The QSRMC regulations incorporate all the

Readymix Concrete					
BS EN 206 Equivalent Strength	Application (examples only)				
C8/ 10	Foundations				
C12/ 15	Kerbs				
C16/ 20	Internal Floors				
C20/ 25	Internal Floors				
C25/ 30	Light Industrial Use				
C28/ 35	General Industrial Use				
C32/ 40	Slurry Pits/ Walls				
Gen 1, 2, 3	Foundations				
C35/ 45	Heavy Industrial Use				
C40/ 50	Specialised Mixes e.g. Wind farms				

requirements of ISO 9001:2008, BS EN 206-1 and BS 8500.



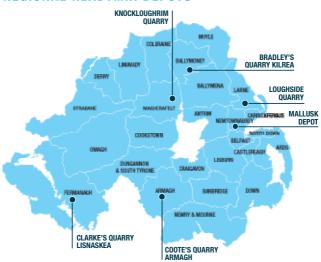
A full range of concrete mixes are available, including our popular Easi-Flow Liquid Floor Screed. This specially formulated calcium sulphate self-levelling floor screed is specifically designed for use with underfloor heating systems. The liquid screed fully encapsulates the heating pipes without voids and only needs to cover the pipes by 25mm, resulting in a much more responsive heating system, which in turn is more economical to run.

EASI-FLOW LIQUID FLOOR SCREED RENEFITS

- Maximises underfloor heating performance
- Quicker to lav
- Reduced drying out times
- Enables earlier start date for follow on trades due to reduction in drying time
- Less labour intensive/improved health and safety benefits

- Thinner screed depth
- · Produced from recycled and sustainable materials
- Lower shrinkage
- Apply up to 1000m² per day
- Maximise insulation thickness
- Reduced load-bearing due to thinner screed depth

REGIONAL READYMIX DEPOTS



KNOCKLOUGHRIM OUARRY

3 Drumard Road, Knockloughrim, Magherafelt BT45 8QA | 028 7964 2558

MALLUSK DEPOT

140 Mallusk Road, Newtownabbey, BT36 4QN | 028 9083 0005

LOUGHSIDE OUARRY

146 Belfast Road, Larne BT40 2PN | 028 2826 0824

COOTE'S OUARRY ARMAGH

56 Redrock Rod, Armagh, BT60 2BL | 028 3755 1126

CLARKE'S OUARRY LISNASKEA

105 Nutfield Road, Slush Hill, Lisnaskea BT92 0HP | 028 6772 1286

BRADLEY'S QUARRY KILREA

84 Cullvrammer Road, Kilrea, Coleraine BT51 5YF | 028 2954 0285









FP McCann's quarries supply a wide range of aggregate solutions to the construction industry within Northern Ireland. We supply loose aggregate for industrial, technical and aesthetic applications.

OUR RANGE OF QUARRY AGGREGATES INCLUDE:

- · 3mm dust
- 6 / 10 / 14 / 20 / 32mm aggregate including Type 3
- 40 / 65 / 100mm Drainage Stone
- 40 / 50 / 65 / 100 / 150mm Crusher Run
- · Blinding material
- 150-200mm Gabion Stone
- Rock Pitchers
- Recycled fill crushed & uncrushed
- Concrete mix range

A full range of unbound granular material is excavated from our quarries and processed into various grades. A selection of bagged aggregate is available on request. Building and plastering sands and decorated coloured pebble are also available.

Our waste blocks, concrete, asphalt and stone are crushed and reprocessed to create a recycled product in compliance with 'The Quality Protocol for the production of Aggregates from Inert Waste'.

QUARRY STONE / AGGREGATES



Due to limitations in the printing process, the colours shown may not match exactly the colour of your actual stone.



All products can be delivered to locations close to any of our strategically based depots.

KNOCKLOUGHRIM OUARRY

3 Drumard Road, Knockloughrim, Magherafelt BT45 8QA | 028 7964 2558 **Products Available:** Aggregates / Quarry Stone / Blacktop / Building Stone (Ennis) / Recycled Hardcore Products

BRADLEY'S QUARRY KILREA

84 Cullyrammer Road, Kilrea, Coleraine BT51 5YF I 028 2954 0285 **Products Available:** Aggregates / Quarry Stone / Blacktop / Building Sand / Building Stone (Ennis) / Decorative Pebble / Gabion Stone / Recycled Hardcore Products / Rock Armour / Rock Boulders

LOUGHSIDE QUARRY

146 Belfast Road, Larne BT40 2PN I 028 2826 0824

Products Available: Aggregates / Quarry Stone / Decorative Pebble / Railway Ballast / Recycled Hardcore Products / Rock Armour / Rock Boulders

MALLUSK DEPOT

140 Mallusk Road, Newtownabbey BT36 4QN | 028 9083 0005

8 | fpmccann.co.uk 028 7964 2558

Products Available: Blacktop

COOTE'S QUARRY ARMAGH

56 Redrock Road, Armagh BT60 2BL I 028 3755 1126

Products Available: Aggregates / Quarry Stone / Recycled Hardcore Products / Rock Armour / Bock Boulders

COOKSTOWN QUARRY

Feegarron Road, Cookstown BT80 9QS I 028 8676 4803

Products Available: Aggregates / Quarry Stone / Railway Ballast

CLARKE'S QUARRY LISNASKEA

105 Nutfield Road, Slush Hill, Lisnaskea BT92 0HP | 028 6772 1286

Products Available: Aggregates / Quarry Stone / Blacktop / Building Sand / Building Stone (Ennis) / Decorative Pebble / Gabion Stone / Recycled Hardcore Products / Rock Armour / Rock Boulders

OMAGH SANDPIT

97 Spring Road, Omagh, BT79 0LA | 028 8077 1667

Products Available: Sand / Gravel

GLENSHANE QUARRY

946 Glenshane Road, Dungiven BT47 4SD | 028 7774 0533

Products Available: Aggregates / Quarry

Stone

ROCK BOULDERS

FP McCann's rock boulders can be used in applications where large voids need to be filled.

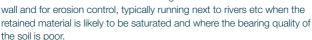
Particularly applicable in natural settings for non-interruption of the landscape. Suitable in





FP McCann's gabion stone is used to construct free-draining walls by filling large galvanised steel baskets* with broken stone.

The permeability and flexibility of gabion stone makes it ideal to use as a retaining



Our processes conform to the most stringent quality standards to ensure maximum strength and durability is achieved and resistance to weathering of the stone fill.

* Steel baskets are not supplied by FP McCann

ROCK ARMOUR

FP McCann's stone is renowned for its quality, purity and durability, hence its demand in commercial projects, such as rock armour and bridge construction.



BUILDING STONE

FP McCann provides two types of high quality building stone:

ENNIS STONE A

This unique, blue-grey limestone building stone is harvested from our Clarke's Quarry in Lisnaskea. It can be supplied in one

tonne bags, equivalent to approximately 3m², and delivered loose (bulk), bagged, random picked or guillotined. For further details, please contact our Clarke's Quarry sales team.



FP McCann's basalt building stone is un-guillotined and is available from our Bradley's Quarry in Kilrea. For further details, please contact our Bradley's Quarry sales team.

DODUCT AVAILABILITY

PRUDUCT AVAILABILITY							
Depot	Rock Boulders	Gabion Stone	Rock Armour	Building Stone			
Bradley's, Kilrea	•	•	•	• *			
Clarke's, Lisnaskea	•	•	•	• A			
Coote's, Armagh	•		•				
Loughside	•	•	•				





DRY SILO MORTAR



FP McCann's silo mortar provides an efficient mortar solution to a wide range of external and internal works, dependent on structural requirements.

The dry mortar mix consists of cement, sand and admixtures and is delivered in bulk tankers to site and stored in our portable, sealed silo that has a built-in automated mixing system. Once water and power has been connected to the mixing unit onsite, the dry mortar is mixed with water at the push of a button, resulting in a consistent high-quality mix that is easy to use.

BENEFITS

Quality Assured

 FP McCann's mortar silos produce a consistent mix that delivers a constant high quality finish and conforms to BS EN 998-2 standard mortar strength.

Cost-Effective

- · Reduced long-term costs -Potential for zero waste, fewer deliveries and less manpower required.
- · Less space required on-site in comparison to traditional mixing methods with covered cement and fine aggregate storage.

Increased Productivity

- Ready-made mortar means less time mixing and more time applying.
- No need to retard mix.

Consistent Strength And Workability

 Computer-controlled mixing provides a constant reliable consistency.

Environmentally Friendly

- The large silo capacity means fewer deliveries and less environmental impact.
- Less noise pollution compared to using traditional mixers.
- · Zero packaging on-site.
- · Reduced use of plastic packaging from manufacturing to point of use.
- No risk of leakage of liquid mortar mix as opposed to traditional mixing methods. Eliminates risks of storing chemical admixtures on-site.

APPLICATIONS

- · Brick, block, stone, paving slab laying
- Bedding
- Repointing
- · General masonry repairs





APPROXIMATE SPREAD RATES

Building Mortar					
1 tonne of building mortar when mixed will lay (10mm joint):					
Approx 1300no. Standard bricks					
Approx 650no.	100mm standard block on edge				
Approx 350no.	100mm standard block on flat				

Plastering Mortar					
1 tonne of plastering will cover:					
10mm thick	69m² approx				
12mm thick	55m² approx				
15mm thick	34m² approx				
24mm thick	27m² approx				

Product Information				
Form	Granular			
Colours	Grey			
Maximum Aggregate Size	3mm			
Safety Information	Irritant – read Health & Safety information prior to use			
Cleaning	Clean equipment using water or, if the product has set, using mechanical means, as necessary			
Shelf Life	Up to 3 months in site silos			

Technical Information						
Proportions	Equivalent Strength Class	M4				
	Typical Compressive Strength	4 MPa				
	Prescribed Proportions by volume	1:5 – 6 Cement: Sand				
	Prescribed Proportions by weight	Portland Cement 13.5% Aggregates 86.5% Air Entraining Agent 0.025%				
Working Time	Typically remains usable for up conditions	to 4 hours, depending on				

BEAM AND BLOCK SOLUTIONS

The traditional beam and block flooring system involves laying precast, prestressed concrete beams across or between walls, which are then infilled with concrete blocks. FP McCann manufactures 175mm deep floor beams, with a width of 106mm and spans up to 6 metres can be achieved, depending on loading conditions.

This dry construction method can be used to produce high quality economic ground and upper floors in residential and other building types.

175MM DEEP T BEAM

Span Load Table - 175mm Deep T Beam		Finishes = 1.74kN/m ²				58					
		Superimposed load in kN/m²				^					
Floor case (based on 1950kg/m³	Floor self weight	1.5	2	2.5	3	4	5		175		
block density)	kN/m²		Maxim	ıum cl	ear sp	an (m)			`_		Ц
Single beam - full block	2.36	4.092	3.575	3.295	2.846	2.502	3.24				
Single beam - full block/ narrow block, alternate	2.49	4.605	4.239	4.086	3.64	3.208	3.65	¥			
Single beam - narrow block	2.71	5.367	4.957	4.783	4.484	4.234	4.26		←	106	→

KEY BENEFITS

- Quick installation
- Helps to eliminate problems associated with soil heave and shrinkage
- Excellent acoustic performance and fire resistance properties



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.

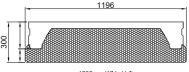


Thermabeam™ units are available in a standard depth of 300mm, each with a choice of two insulation types - poly or platinum poly. All Thermabeam™ units are grouted on-site using C25/30 sand cement mortar.

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 Thermabeam™ system helps to reduce CO² emissions by decreasing the amount of nonrenewable 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 Flements

- Low carbon footprint since less energy is required to heat building
- Spans up to 6.5m (depending on load)



CONCRETE BLOCKS

Concrete blocks are manufactured at our Armagh, Kilrea and Lisnaskea depots to the highest regulatory standards.



We manufacture:

- 4" / 6" / 12" Blocks
- 12" Short Blocks
- Cavity Blocks
- Fair Faced Block
- Soap Bars
- Concrete Brick



9 x 4 Solid Concrete Block*: Dimensions: 440x215x100mm Unit weight: 20kg Comp Strength 5n /mm² Available in 7n /mm²/10n /mm² 21n /mm²



9 x 6 Solid Concrete Block: Dimensions: 440x215x150mm Unit weight: 28kg Comp Strength 7n/mm² Available in 7n/mm² / 10n/mm²

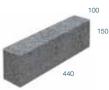
*Lightweight options available



12 x 4 Solid Concrete Block: Dimensions: 440x300x100mm Unit weight: 27.5kg Comp Strength 7n/mm² 'Short' 12 x 4 Concrete Block Dimensions: 350x300x100mm Unit weight: 21kg Comp Strength 7n/mm²



9 x 9 Cavity Block: Dimensions: 440x215x215mm Unit weight: 26kg Comp Strength 5n /mm² Available in 7n /mm² / 10n /mm²



6 x 4 Soap Bar: Dimensions: 440x150x100mm Unit weight: 12.5kg Comp Strength 7n /mm²



4 x 4 Soap Bar: Dimensions: 440x100x100mm Unit weight: 9kg Comp Strength 7n /mm²

Available in 10n /mm²



Concrete Brick: Dimensions: 215x100x65mm Unit weight: 3kg Comp Strength 15n /mm²

Available in 21n/mm²



Fairfaced 9 x 4 Solid Concrete Block: Dimensions: 440x215x100mm Unit weight: 20kg Comp Strength As per customer specications

Our blocks are manufactured in 7N, 10N, 15N and 21N strengths. We also manufacture high-strength blocks at customer specification.

PRESTRESSED CONCRE PADSTONES

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 British and Irish Standards

Lintel Dimensions						
Length	Flat	Upright				
450 - 3600	65 x 100	100 x 65				
450 - 3600	65 x 140	140 x 65				
450 - 3600	100 x 140	140 x 100				
450 - 3600	*100 x 215	*215 x 100				
450 - 3600	65 x 215	215 x 65				
450 - 3600	*140 x 140	*140 x 140				
450 - 3600	*140 x 215	*215 x 140				

Padstone Sizes (mm)					
215 x 140 x 100					
215 x 215 x 140					
300 x 100 x 140					
300 x 215 x 100					
440 x 140 x 100					
440 x 215 x 100					
440 x 215 x 140					

^{*} High strength available



Loading capacity on edge: 12.7kN

Deflection on flat: 4.77mm @ 7.67kN Deflection on edge: 4.77mm @ 12.7kN

Water absorption: <6% Water vapour permeability: 50/150

Mass per unit area: 149kg/m2 Thermal resistance: Thermal conductivity II10, dry 1.72 W / (m.K). Resistance to fire: Class A1

Durability (against corrosion): 40N Concrete Durability against freeze thaw: Not to be left exposed.

Dangerous Substances: N.P.D

Sample CE certification for 1650 PS lintel

CONCRETE CILLS



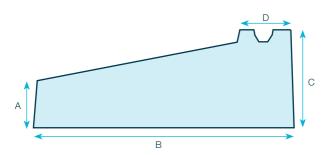
FP McCann's high quality cills are manufactured in accordance with BS standards and are available in increments of 150mm from 0.5m to 3m. Bespoke sizes can also be designed and manufactured on request. Standard finish only.



PRODUCT DIMENSIONS

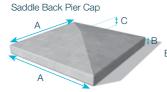
Cill Description	Α	В	С	D
55mm face	55	265	85	60
90mm face	90	240	140	65
50mm South Cill	50	255	100	50

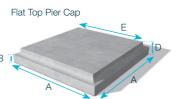
Please note: all measurements are in mm.



PIER CAPS

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 or Flat Top. Standard finish only.





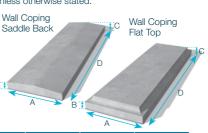
PIER CAP DIMENSIONS

Description	Α	В	С	D	E
8.5" Saddle back	215	30	55		
12" Saddle Back	300	40	70		
16" Saddle Back	400	50	85		
18" Saddle Back	450	50	100		
22" Saddle Back	560	50	120		
27" Saddle Back	685	50	140		
34" Saddle Back	850	75	170		
22" Flat Top	559	50		100	459
27" Flat Top	680	50		100	585
34" Flat Top	870	75		130	775

All measurements are in mm. unless otherwise stated.

WALL COPINGS

WALL COPING DIMENSIONS



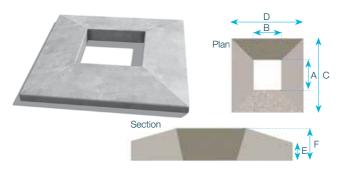
Description	Α	В	С	D
5" Saddle Back	125	30	45	600
6" Saddle Back	150	40	48	590
7" Saddle Back	175	50	75	900
9" Saddle Back	225	40	60	900
11" Saddle Back	275	30	50	600
12" Saddleback	300	40	55	900
12" Saddle Back	300	70	50	600
9" Flat Top	225	35	65	900
12" Flat Top	300	40	65	900
12" Once Weathered	300	70	50	915
13" Once weathered	325	60	50	915
14" Twice weathered	355	75	50	610
16" Twice weathered	405	75	50	915

All measurements are in mm. unless otherwise stated.

CHIMNEY CAPS & FLUE GATHERERS

The precast concrete chimney caps and flue gatherings allow for the speedy construction of a high quality and safe chimney system. Chimney caps are available in various sizes. Standard finish only.

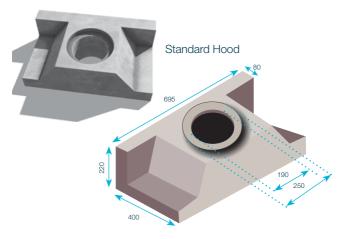
CHIMNEY CAPS



Description	Α	В	С	D	E	F
710 x 710 (28" x 28")	300	300	711	711	51	76
710 x 1050 (28" x 42")	300	648	711	1050	51	76
710 x 1150 (28" x 45")	300	730	711	1145	51	76
710 x 1200 (28" x 47")	300	790	711	1200	51	76

All measurements are in mm unless otherwise stated.

FLUE GATHERERS





FP McCann's concrete post range is designed to support timber clad or chain-link wire fencing. All posts are reinforced and manufactured using C32/40N concrete. Three sides of the post have a smooth steel mould finish, the back side is trowel finished.

Our concrete slotted posts are sturdy, long-lasting and maintenance-free, and can be used with either Rockface or Plain gravel boards. The posts can also form a very decorative and long-lasting fence when used in conjunction with lattice or close board wooden fencing and a concrete gravel board to form the fence base.



Slotted Type Type Post 1-3 4

Slotted Post Sizes (mm)

125 x 100 x 1800

125 x 100 x 2100

125 x 100 x 2400

125 x 100 x 2700

Rock Face & Plain Gravel Board (mm)

1820 x 300 x 50

Туре	Dimensions (mm)	Holes front (mm)	Holes side (mm)	Weight (kg)
Type 1	2250 x 125 x 125	3no. x 10	3no. x 10	79
Type 2	2240 x 100 x 100	3no. x 10	5no. x 10	51
Type 3	1810 x 100 x 100	3no. x 10	4no. x 10	42
Type 4	1390 x 100 x 100	2no. x 10	4no. x 10	33





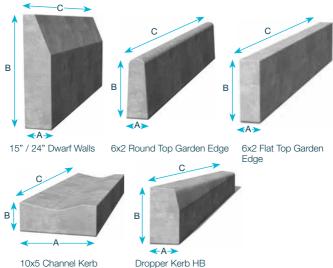
Rockface High Profile Wet Cast



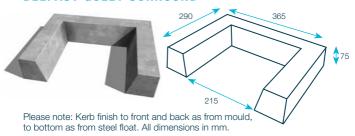
GARDEN EDGING & KERBING

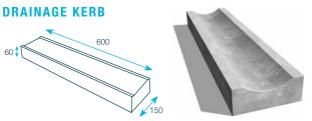
FP McCann manufactures a complete kerb and channel range to fully satisfy all construction and infrastructure requirements. Standard finish only.

KERB AND CHANNEL RANGE



BELFAST GULLY SURROUND





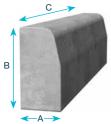
Please note: Kerb finish to front and back as from mould, to bottom as from steel float. All dimensions in mm.

For details on FP McCann's slot drain StormChannel™, go to page 56

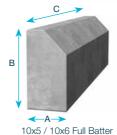
QUADRANT RADIUS KERB

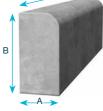
Quadrant radius kerbs are designed for going around bends with ease, a flexible solution for some design detailing projects.





6x4 / 6x5 / 8x4 / 10x5 Half Batter





10x5 / 6x5 Bull Nose

Г	Hall Baller						
	Description	A Width	B Height	C Length	No. (per lift)		
	10 x 5 Bull Nose	125	255	915	16		
	6 x 5 Bull Nose	125	150	915	14		
	10 x 5 Full Batter	125	255	915	16		
	10 x 6 Full Batter	150	255	915	14		
	6 x 4 Half Batter	100	150	915	16		
	6 x 5 Half Batter	125	150	915	16		
	8 x 4 Half Batter	100	200	915	20		
	10 x 5 Half Batter	125	255	915	16		
	10 x 5 Channel	125	255	915	16		
	6 x 2 Garden Edge Flat Top	50	150	915	60/100		
	6 x 2 Garden Edge Round Top	50	150	915	60/100		
	15" Dwarf Wall	90	380	915	24		
	24" Dwarf Wall	90	600	915	16		
	Dropper Kerb HB	125	255-150	915	16		
	10 x 5 Quadrant Kerb	125	255	915	16		

Please note: A-C measurements are in mm.



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	806



COMMS C2

Length	Width	Height	Weight
(mm)	(mm)	(mm)	(kg)
1200	600	895	



COMMS J4

Length	Width	Height	Weight
(mm)	(mm)	(mm)	(kg)
910	440	800	590



COMMS DP

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



COMMS MCX PRODUCT 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

CONCRETE SAFETY BARRIERS

FP McCann's interlocking precast concrete modular, jersey barriers are suitable for a variety of applications, including many types of temporary works.

PRODUCT BENEFITS

- · Cost-effective
- Easy to handle and install
- Durable
- Interlocking design for easy alignment and added security
- Free-standing unit
- Provides a high level of containment
- Absorbs the impact of a moving vehicle
- Slows down the impacting vehicle quickly
- Product can be painted on request
- Reusable product



PRODUCT APPLICATIONS

- Segregation
- Temporary road blocks
- Security barricades
- Traffic management
- · Flood defence
- Rockfall

PRODUCT DIMENSIONS

Length (mm)	Width (mm)	Height (mm)	Weight (kg)
1500	500	800	900

Easi-Bloc[™] is a precast concrete block offering solutions where limited space is available for containment. They are simplistic in design allowing for effortless handling and speed of installation. Easi-Bloc[™] comes in two sizes making them ideal for a variety of applications.

Easi-Bloc contains a central cast-in lifting loop for ease of handling and installation. Products are manufactured to comply with the requirements of BS EN 1992-1-1:2004.

PRODUCT BENEFITS

- · Cost-effective
- Interlocking design for easy alignment and added security
- · Quick installation
- Durable
- Cast-in lifting pin makes them easy to lift
- · Reusable product

PRODUCT APPLICATIONS

- Segregation
- Temporary road blocks
- Security barricades
- Storage bays
- Agricultural bays suitable for grain, silage, etc.
- · Earth retention
- Aggregate bays
- Partition walling
- Landscaping
- Waterways / Shoreline defences
- Highways
- Retaining wall

PRODUCT DIMENSIONS

Length (mm)	Width (mm)	Height (mm)	Weight (kg)
1400	700	700	1700
700	700	700	850

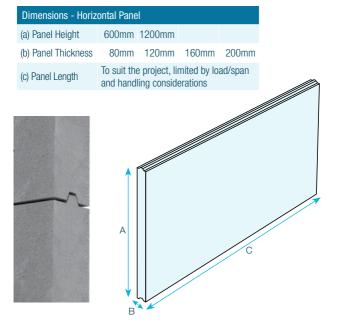


PRESTRESSED HORIZONTAL PANELS

FP McCann's prestressed horizontal panels allow you to construct walls quickly and efficiently with the future-proof option of re-siting, if required; providing the ideal solution where the adaptability of buildings is important since our wall panels are manufactured using prestressed concrete, it gives them in-built strength and resilience.

PRODUCT BENEFITS

- Tongue and grooved joints for easy alignment and positive sealing
- · Smooth impervious surface which is easily washed down
- Prestressed panels absorb minor accidental damage
- More cost-effective more versatile than blockwork
- Tailor-made lengths and a variety of widths
- Simplistic and guick installation
- No foundation required



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

PRODUCT FEATURES

- L Wall units are an ideal product where speed of installation is necessary
- They offer a fast, cost-effective solution to constructing retaining and containing developments
- Standard sizes range from 1m high up to 3.66m high, with a width of 1m for all units

PRODUCT BENEFITS

- Large range of sizes available
- · Quick and easy installation
- Create storage bays without imposing a load to the building frame
- · No specialist trades required
- Can be loaded either side or both sides of the stem
- Retain material up to 18kN/m³
- Stability
- Corner units available
- Available with heel feature to reverse

PRODUCT APPLICATIONS

- Storage facilities
- Division walls
- General soil retention
- Waste recycling bunkers
- Making up levels within buildings
- Bunker walls
- Retaining walls

STANDARD L WALL SIZES

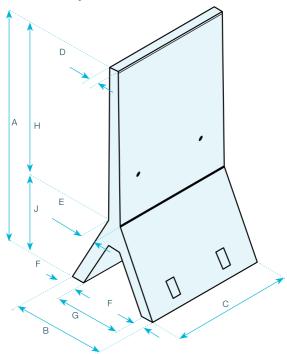
The loading 18 kN/m $^{\rm 3}$ is approximately a bulk density of 1800 kg/m $^{\rm 3}$

Height (mm)	Width (mm) straight unit	Width (mm) corner unit	Weight (kg) straight unit	Weight corner unit (kg)
1500	1000	1000	631	1046
2400	1000	1100	1230	3000
3000	1000	*1500	1740	*2070
3660	1000	N/A	2500	N/A

^{* 2} Sections



FP McCann's Rocket Walls™ are high quality, freestanding, precast concrete units. They are designed to be sited on an existing concrete floor slab or foundation and bolted down using fixing bolts to prevent movement, for improved site safety and maximum efficiency. It is this uniqueness that makes them suitable for a variety of uses.



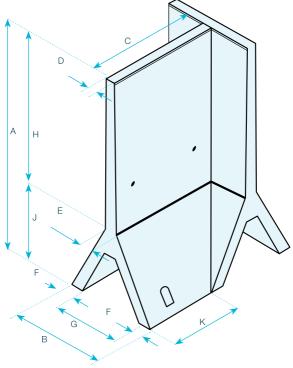
	Dimensions - Rocket Wall™ (Straight)												
Height (m)	Weight (kg)	А	В	С	D	Е	F	G	Н	J			
2.4	1100	2400	970	1250	100	131	131	710	1600	800			
3.0	1860	3000	1200	1250	110	150	165	870	2000	1000			
4.0	2820	4000	1650	1250	941	691	851	280	2600	1400			

Please note: A-J measurements are in mm.

PRODUCT BENEFITS

- · Simply installed and easily moved
- Designed for materials up to 16kN/m³
- Manufactured to ISO quality and environmental standards
- Inverted Y shape design provides high capacity
- Value engineering means less concrete than typical alternatives
- Engineered to allow for up to 4m high units and 1.25m wide (for straight units)





	Dimensions - Rocket Wall™ (Corner)												
Height (m)	Weight (kg)			С	D			G	Н	J	K		
2.4	1091	2400	970	1200	100	131	131	710	1600	800	759		
3.0	1842	3000	1200	1200	110	150	165	870	2000	1000	680		
4.0	3268	4000	1650	1650	110	170	185	1280	2600	1400	875		

Please note: A-K measurements are in mm.

WATER TROUGHS

FP McCann offers a range of high-quality precast water troughs for the agricultural sector. They provide a strong, reliable and quick fit solution for livestock drinking requirements.

Due to the weight of the concrete water troughs, less time is required to fit and install them as they are able to sit under their own weight. Unlike plastic troughs, the robustness of the precast water trough removes the risk of the trough losing shape or being pushed around by livestock. Our water troughs are available in four sizes.

PRODUCT BENEFITS

- Versatile can be easily moved to a different location using the correct lifters
- Durable maintains shape in all conditions and centre core pipe is protected from frost etc.
- Safe no sharp edges and centre core pipe is protected from livestock
- Drainage can be easily drained to allow for cleaning and transportation
- Indoor or outdoor the strength of our water troughs means they can be used indoor or outdoor in any weather conditions



Water Trough Dimensions										
Capacity	Length (M)	Width (M)	Height (M)	Weight (T)						
75 Gallons / 340 Litres	1.7	0.8	0.5	0.75						
150 Gallons / 680 Litres	2.1	0.9	0.7	1.10						
200 Gallons / 909 Litres	2.2	1.1	0.7	1.30						
300 Gallons / 1365 Litres	2.5	1.2	0.8	1.73						

DIRTY WATER/ EFFLUENT TANK

The precast dirty water tank is used to store all forms of dirty water and is available in a range of sizes, depending on the estimated volume of effluent produced. All tanks come complete with solid lids.

PRODUCT BENEFITS

- Speedy installation, no ready-mixed concrete backfill required
- Unobtrusive (buried underground)
- Low maintenance



VOLUME CAPACITY OF STORAGE CHAMBERS

Internal Diameter (x1000mm)	Litres
DN1500	1767
DN1800	2544
DN2100	3464
DN2400	4514
DN2700	5726
DN3000	7069



FP McCann manufactures a range of precast agricultural cattle slats, ideal for use over slurry channels, underground tanks or as part of a suspended floor system.

All cattle slat products are manufactured in accordance with BS 5502 and ISO 9001, ensuring that quality, durability and animal welfare are at the heart of the design and manufacture.

The cattle slat products are suitable for use as floors for livestock and are made from high-strength reinforced concrete, designed to withstand the pressure and demands associated with livestock management over a considerable time period. These products are suitable for use with all classes of livestock loading, shown in Table 5 of BS5502: Part 22, including the maximum vehicle loadings.

PRODUCT BENEFITS

- Axle bearing load of 4.5 tonnes
- Edges designed to prevent injury to cattle
- Tapered sides to allow easy access for slurry tank
- Excellent space to surface ratio
- One-man operation for safe mixing or slurry removal from effluent tank

- Hardwearing non-slip surface
- Gang slats
- Cattle and multi-purpose slats available
- Access slat with manhole
- Diagonal slat to cover slurry channels

PRODUCT APPLICATIONS

Cellars / Channels / Dairy farms

		ts							
Length (ft)	8	9	10	11	12	13	14	15	16
Width (mm)	1265	1265	1265	1265	1265	1265	1255	1255	1255
Depth (mm)	195	195	195	195	195	195	225	225	225
Axle loading	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Weight (Kg)	1040	1220	1320	1480	1560	1620	2188	2345	2500

	Safety Slats											
Length (ft)	8	9	10	11	12	13	14	15	16			
Width (mm)	1265	1265	1265	1265	1265	1265	1255	1255	1265			
Depth (mm)	195	195	195	195	195	195	225	225	225			
Axle loading	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5			
Weight (Kg)	900	1020	1160	1240	1400	1520	1852	1985	2117			
Opening size			1	000mm	x 830r	nm wid	е					

Multi-Purpose Slats											
Length (ft)	8	9	10	11	12	13					
Width (mm)	1265	1265	1265	1265	1265	1265					
Depth (mm)	175	175	175	175	175	175					
Axle loading	4.5	4.5	4.5	4.5	4.5	4.5					
Weight (Kg)	840	920	1020	1180	1260	1420					

	Diagonal Slats												
Length (ft)	8	9	10	11	12	13							
Width (mm)	1265	1265	1265	1265	1265	1265							
Depth (mm)	195	195	195	195	195	195							
Axle loading	4.5	4.5	4.5	4.5	4.5	4.5							
Weight (Kg)	1040	1220	1320	1480	1560	1620							

Support Beams											
Length (ft)	8	9	10	11	12	13					
Width (mm)	305	305	305	305	305	305					
Depth (mm)	305	305	305	305	305	305					
Weight (Kg)	518	583	648	713	778	842					

	Cubicle Bases											
Length (ft)	7	8	14	15								
Width (mm)	1150	1200	1140	1200								
Depth (mm)	270-200	225-170	280-200	225-170								
Weight (Kg)	880	1479	2500	2773								

	Passage Covers											
Length (ft)	8	9	10	11	12	13	14	15	16			
Width (mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200			
Depth (mm)	160	160	160	160	160	160	160	160	160			
Weight (Kg)	1218	1370	1523	1672	1827	1972	2097	2246	2446			

DRIVEWAY SURFACING

As a leading civil engineering and asphalt contractor, FP McCann has many years of experience in surfacing driveways in the North and South of Ireland.

FP McCann provides extensive residential and commercial surfacing solutions and specialises in the provision of bitmac and asphalt. The latter is available in red chip and black chip. As well as offering a bespoke service, we can also manage each project from start to finish. This includes preparation, supply and installation of material to ensure you get the best service and quality throughout. All work conforms to relevant British and European Standards.

FP McCann is a CDM compliant contractor and can protect our clients from potential high risk incidents. For further information, please go to: www.hse.gov.uk/pubns/cis80.pdf

For further information on FP McCann's surfacing solutions, contact the sales team based at any of the following locations:

028 2954 0285 028 7964 2558 Knockloughrim 028 6772 1286 Lisnaskea











CONCRETE EXPOSED

FP McCann's Concrete Exposed is an exposed aggregate concrete that combines the beauty of natural coloured aggregate with the strength and durability of readymix concrete. A number of different styles are available. It can be used in a wide range of domestic and commercial applications.

PRODUCT APPLICATIONS

- · Domestic driveways
- · Pavements and footpaths
- Patios and pathways
- · Public spaces and commercial areas

PRODUCT BENEFITS

- Aesthetic appearance utilises the beauty of natural aggregate to achieve a highly decorative effect
- Choice lots of colours and textures to choose from, which allows you to customise your look
- Durability as the product is concrete, it is extremely hardwearing and is designed to withstand heavy traffic and extreme weather conditions without sinking or heaving
- Low maintenance prohibits the development of weeds and moss, so is easy to keep clean. Tyre marks are not visible due to the coloured stones, allowing stains to be hidden
- Minimal joints, except for expansion joints

- Safety more slip resistant than brushed/floated concrete, which means that cars are unlikely to slide on the surface, even when it is wet. Laid as a continuous surface, minimises the likelihood of trip hazards
- No weeds/moss within joints (paving)
- · Long-life with minimal aftercare
- Stain resistant
- Can be installed indoors and outdoors and areas with restricted access
- Our ready-mixed concrete conforms to the QSRMC Quality and Product Conformity Regulations
- Please note: Other aggregates and styles can be sourced on request

For further information on FP McCann's Concrete Exposed, contact the sales team based at any of the following locations:

 Armagh
 028 3755 1126
 Lisnaskea
 028 6772 1286

 Kilrea
 028 2954 0285
 Loughside/Larne
 028 2826 0824

 Knockloughrim
 028 7964 2558
 Mallusk
 028 9083 0005







8 GOOD REASONS WHY YOU SHOULD USE **CONCRETE DRAINAGE**

1 SUSTAINABILITY

Concrete pipes outperform other types of pipeline solutions in a number of the environmental impact categories, such as human toxicity levels and chemical / hazardous waste generated. The CO2 emissions from concrete and cement production are relatively small compared to other building materials. Some 95 to 99% of ingredients used in the production of concrete pipes are sourced locally, so a considerable positive impact on the carbon footprint and fuel consumption associated with transporting these materials can be achieved.

2 STRENGTH

Concrete is much more durable than any other kind of pipe. Hence, it can carry more load at any given time and gains strength over time. It cannot be weakened by heat, moisture, mould or pests, nor will it rust. Underground concrete pipes have the ability to resist chemical attacks and massive impacts such as jetting, so blockages can be cleared easily.

3 QUALITY

Since precast concrete pipes are produced in highly controlled plant environments under rigid production standards and testing specifications, they achieve consistent high quality levels of performance. The pipe production process will normally include computer-controlled mixing systems, computer-controlled weighing and proportioning systems, absorption testing and automated recording systems. FP McCann's concrete pipes are manufactured in accordance with BS EN 1916 and BS 5911, and certified by Quality Assessment under the Kitemark Scheme and ISO 9001

4 WHOLE LIFE VALUE

Due to its amazing structural properties and functional benefits, precast concrete pipes tend to attract lower insurance premiums than those built from other construction materials. The natural strength of precast concrete pipes enables recycled aggregate to be used as a bedding material, significantly reducing installation costs and the elimination of waste disposal costs.

5 FIRE-RESISTANCE

Being naturally fire-resistant, concrete forms a highly effective barrier to fire spread and it does not emit any toxic fumes when affected by fire. It will not produce smoke or drip molten particles. Therefore, in the majority of applications, concrete can be described as virtually 'fireproof'. Due to its inbuilt fire resistant properties, concrete not only maintains an airtight construction that stops smoke spreading, but also has the ability to keep its strength during a fire.

6 BEDDING PERFORMANCE

The superior strength of concrete pipes enables recycled aggregate to be used as a bedding material, thus reducing costs and environmental impact during installation. Since a full trench depth of granular material can actually be more expensive than the pipe, significant pipe bedding savings can be achieved when using a concrete pipe instead. FP McCann can advise on the optimum soil and ground conditions from geotechnical reports, to establish when this sustainable and cost-efficient solution can be deployed.

7 CHEMICAL RESISTANCE

Concrete pipes and manholes are resistant to sulphate and chemical attack. Concrete pipeline products with higher design chemical classes of DC3 and DC4 are capable of withstanding attack from the vast majority of aggressive ground environments in the UK.

8 HYDRAULIC EFFICIENCY

The rigidity and mass of concrete pipes (both within the pipe and pipe joints) allows it to retain its shape over its long service life, preserving structural integrity and hydraulic efficiency, by minimising the resistance to water flow that often occurs when the shape or integrity of a flexible pipe is compromised through deformation.





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 (A)	MM	300	375	450	525	600	675	
Barrel Diameter (B)	MM	416	505	590	685	790	901	
Socket Diameter (C)	MM	497	575	665	760	852	960	
Effective Length	MM	2500	2500	2500	2500	2500	2500	
Actual Weight	KG	454	616	812	996	1252	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	900	1050	1200	*1350	*1500	*1800	*2100	*2400
750	900	1050	1200	1350	1500	1800	2100	△2380
996	1080	1266	1460	1620	1800	2130	2460	2750
1060	1235	1420	1590	1800	2010	2380	2650	2750
2500	2500	2500	2500	2500	2500	2500	2500	2500
2194	2060	2760	3630	4290	5330	7300	9160	10070
N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
12	13	10	8	6	5	4	3	2
1800	1800	2100	2100	2400	2400	2700	3000	3600
N	N	N	N	N	N	N	N	N
90	108	126	144	162	180	216	252	288
4	4	5	5	5	7	7	7	-
34	34	34	36	36	36	41	41	-
1	1	1	1	0.5	0.5	0.5	0.5	-

 $^{^{\}star}$ Lifting anchors available $^{\vartriangle}$ Please note internal dimensions

ONE PIECE INTEGRAL RUBBER SEAL

FP McCann now provide a new type of integral seal for their precast concrete pipes. This new integrated seal is a simple, onepiece 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.

FEATURES

- The seal complies with all relevant European standards, including EN 681-1, ISO 90001 and QR 4060
- Durable synthetic EPDM rubber seal with over 100 years shelf life
- Seal is cast accurately and stable at the precast factory
- Pipe is cast with numerous holding parts to keep the seal in place
- · Clean, high quality sockets
- Ideal for use with mechanical laying techniques such as pipelifter
- Pipes arrive at site ready to be connected
- Please note: During the changeover phase, our new integral seal is fully compatible with our current seal

Important Jointing Information

The integral pipe-seal jointing system used in FP McCann's drainage products requires the use of a FP McCann proprietary lubricant, which can be supplied with all pipeline orders from us. Failure to use the proprietary lubricant in accordance with the instructions provided by the pipe-seal manufacturer /

AIR TEST ONLY (A.T.O.)

INFLATABLE PIPE STOPPER

Air testing is a quick and easy way of checking a pipeline following installation. Correct assembly of joints, workmanship and the prevention of site handling damage can be identified by this test. FP McCann recommends the use of inflatable stoppers when air testing concrete pipes. Associated test equipment should be in good condition and in full working order. FP McCann recommends that this test is done every 2-3 pipes before backfilling, regularly following backfill during the installation and then at the finish; preferably before both manholes have been constructed.

The pipeline should be pressurised with air until the 'U' guage (manometer) indicates 100mm. Allow a minimum of 5 minutes for stabilisation of the air pressure, longer may be needed in cold or very hot weather. Observe the fall in indicated pressure over a 5 minute test period. The test is successful if the residual pressure does not fall below 75mm within the 5 minute test period.

If the pressure falls sharply and the pipeline appears to have failed, the following checks should be carried out:

BENEFITS

- Integrally cast into the structure of the pipe
- Environmentally friendly as it eliminates the need for the polystyrene strip
- Reduction in waste on site
- No cavities or steps in joints
- Almost zero push back

- Requires low insertion force
- Seal not sensitive to weather
- No clamps required to tighten or forget
- Fast and easy installation
- · Pipes may be backfilled immediately
- · Less time in excavation
- Durable, reusable casting forms









FP McCann, may give rise to problems with pipe jointing and seal performance and invalidate any warranty, implied or otherwise. FP McCann accepts no responsibility whatsoever for problems or loss of performance arising from any such failure.

- · Inspect the seal of the inflatable stopper against the inside of the pipe using soapy water. Use pipe lubricant or industrial soap to assist in providing a seal where necessary
- · Check the connections, rubber tube and stoppers for leaks





Please note that failure to adhere to the advice given above and on the FP McCann website may result in any subsequent claims being invalid. Call-out charges may also apply if FP McCann's technical personnel have to attend on site.

Failure to successfully pass an air test does not prohibit the acceptance of pipeline if a successful water test can be obtained in accordance with BS EN 1610.





MANHOLE CHAMBERS (TONGUE & GROOVE JOINT)

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

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

△ 570 long wavy tail anchors

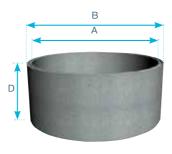
PRODUCT INFORMATION

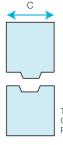
- FP McCann's manhole chamber rings are manufactured with tongue and groove joints and comply with BS EN 1917 / BS 5911-3
- DN3000, DN3600 and DN4000 are outside of the scope of the British Standard (Non-Kitemark), but comply with all relevant provisions of the European Standard. DN4000 is supplied in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

WIDE WALL MANHOLE CHAMBERS

Nominal Size DN (mm)	250mm (±25mm)	500mm (±25mm)	750mm (±50mm)	1000mm (±50mm)	Wall Thickness (mm)
1200	✓	✓	✓	✓	130
1500	✓	✓	✓	✓	130
1800	✓	✓	✓	✓	130

MANHOLE CHAMBERS (TONGUE & GROOVE JOINT)





Tongue and Groove Joint Profile

Litres (per metre)	Barrel Diameter (B) (mm)	Approx Weight Kg. (per metre)	Approx. Products per load Qty. (m)	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	3 x 45
4514	2680	2790	8	3 x 45
5725	3000	3370	8	3 x 45
7069	3360	3830	5	3 x RD36
10179	3970	5400	5	△ 3 x RD36
12566	4400	*7200	4	△ 4 x RD36

MANHOLE SOAKAWAY CHAMBERS

Dia ± 5mm

ominal Size		o. of 75m per cha		Wall Thick-	Litres per	Barrel	Approx Weight	Approx. Products
DN (mm)	500 mm	750 mm	1000 mm	ness mm	metre ring	Dia. (mm)	Kg. (per metre)	per load Qty. (m)
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	3370	6
3000	17	25	34	190	7069	3360	3830	5
*3600	20	31	41	185	10179	3970	5400	5
*4000	23	34	45	200	12566	4400	6800	1.5

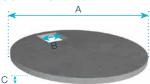
^{*} DN3600/4000 see Manhole Chambers / DN3600/4000 Manhole Soakaways made to order

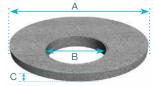
Barrel Diameter (mm)	Approx Weight Kg. (p/metre)	Approx. Products per load Qty. (m)	36mm Lifting Pin 0.7t SWL	42mm Lifting Pin 3.5t SWL	3 leg lifting chain SWL 3.1t		
1460	1520	16	Lifting clutche	Lifting clutches. FP McCann			
1760	1645	14	supply recommended and		✓		
2060	1970	12	approved lifti	ng clutches.	✓		

MANHOLE COVER SLABS

COVER SLABS

REDUCING SLABS





			STANDARD COVER SLABS		STANDARD	STANDARD REDUCING SLABS		
Chamber	Outside	Slab	Opening Con	figuration B	Approx.	Opening	Effective	
DN (mm)	Diameter (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 750x750	ECCENTRIC CENTRAL	315			
1200	1450	150	600x600 675x675 750x600	ECCENTRIC	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	215	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).

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

LANDING SLABS



STANDARD LANDING SLABS							
Chamber Section (DN)	Outside Diameter (A)	Opening Diameter (B)	Slab Depth (C)	Approx. Weight (Kg)			
1500	1730	900	200	826			
1800	2050	900	200	1292			
2100	2375	900	200	2030			
2400	2705	900	200	2600			
2700	3025	900	200	3880			
3000	3330	900	200	4500			
NB: All di	mensions	are in mm	, unless	stated			

otherwise

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

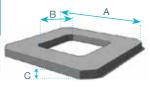


Manhole Type	Diameter (mm)	Opening Size (mm)	No. per Pack	Thickness (mm)	Weight (kg)
Type 2	1050	600 x 600	15	65	70
Type 2	1050	675 x 675	15	65	55
Type 2	1050	750 x 600	15	65	60
Type 2	1575 x 1050	1200 x 675	6	75	160

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 750x600	290





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 - DN2100 EASI-BASES™

FP McCann's bespoke Easi-Bases™ from DN1500 to DN2100 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 - DN2400 EASI-BASE™ UNIT SIZES							
Easi Base Diameter	Internal Channel Diameter	Invert Level (for take off)	Finished Height Base Unit	Easi-Base Weight Tonnes			
DN1200	150	370	520	1.62			
DN1200	200	420	570	1.8			
DN1200	225	470	620	2.2			
DN1200	250	470	620	2.2			
DN1200	300	520	670	2.2			
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	△10.5			

All sizes are in mm * 2 part unit / max Δ per unit

PRODUCT QUALITY

- Easi-Base[™] is a Kitemark product, manufactured and tested to BS EN 1917
- · WRc tested and approved

SEALANT

DN1200	22mm x 22mm x 3.6m
DN1500	22mm x 44mm x 4.5m
DN1800	32mm x 38mm x 5.7m
DN2100	32mm x 38mm x 6.7m

EASIBASETM

WITH INTEGRAL SEAL



FP McCann's integral seal is a simple, reliable rubber compression connector which is embedded in the concrete when the manhole is cast. The seal is compressed between the pipe and the concrete, creating a flexible watertight seal.

FEATURES

- Connector is placed in the sealing position at the precast plant
- Manhole arrives at the jobsite ready to receive the pipe
- Pipe is beveled and lubricated, and then inserted through connector
- Manhole may be back filled immediately

BENEFITS

- Integrally cast into the *structure when the concrete is poured
- Reusable tooling holds connector in position during casting process.
- Requires low insertion force
- No clamps to tighten or forget
- Fast and easy installation
- · Less time in the excavation
- · Durable, reusable casting forms
- * 1050mm and above pipe sizes require grouting using a e-proxy resin or similar approved product

SEALANT

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

EASI-BASE ADAPTORS AND SEALS

Part No.	Size	Pipe O/D	Туре	Description
FPM 101	225	250	Adaptor	PVC TW & Ultra Rib
FPM 102	225	N/A	Adaptor	End cap Stock
FPM 103	225	263	Adaptor	Clay (SuperSleve)
FPM 104	225/150	N/A	Adaptor	Level Invert Reducer
FPM 105	225	268	Adaptor	PE Twin Wall
FPM 106	225	N/A	Seal	Uni bell Seal
FPM 107	225	263	Seal	Clay Adaptor Seal
FPM 108	150	170	Adaptor	Ultra Rib
FPM 109	150	N/A	Adaptor	End Cap
FPM 110	150	178	Adaptor	Twin Wall PE
FPM 111	150	178	Adaptor	Clay (SuperSleve)
FPM 112	300	335	Adaptor	Ultra Rib
FPM 113	150	188	Adaptor	Naylor Densleeve
FPM 114	300	353	Adaptor	Twin Wall
FPM 115	150	160	Adaptor	Twin Wall PVC
FPM 116	225	278	Adaptor	Naylor Densleeve

STORMBRAKETM

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. Standard sizes range from DN1200 to DN2100.

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





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 Thickness (mm)
DN1050	* 1000	375	1210	80
DN1200	* 1000	375	1380	90
DN1500T1	* 1400	525	1800	150
DN1500T2	* 2400	750	1800	150
DN1800T1	* 1500	525	2100	150
DN1800T2	* 2400	900	2100	150
DN2100	* 2400	1350	2400	150
DN2400	* 2700	1800	2700	150

Height can be reduced, contact technical department for further details. Based on 300mm sump. If a non-standard invert level is required, please specify when ordering Maximum weight of a solid, full height unit with no holes

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







Capacity (I)	**Approx. Weight (kg)	Lifting Hole Qty/ da/ per unit
650	1380	3no. ø45 lifting holes
870	1600	3no. ø16 sockets and loops
1800	4700	3no. utility anchors
3300	7700	3no. utility anchors
2700	Δ 6300	3no. utility anchors
5100	8300	3no. utility anchors
7000	Δ 11000	3no. utility anchors
10,500	Δ 14000	3no. utility anchors

- Based on a standard catchpit only. If larger pipe sizes are required, please contact FP McCann
- Δ Lightweight catchpits available on request



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.

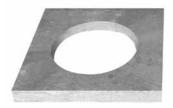
Dir	Dimensions (mm)		Nominal	Approx.	No. per
Diameter Internal	Depth	Outlet	Weight (Kg)	Capacity (litres)	load
375	750	150	180	51	66
375	900	150	200	67	66
450	750	150	215	71	60
450	900	150	255	95	60
450	1050	150	270	118	60
450	1200	150	280	142	60

- The seal has been cast-in, thus preventing loss or damage on-site
- An integral seal and rodding eve 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
- The gully is fully universal. suitable for all plastic and clay drainage products from 160mm to 186mm diameter

- Improved system that helps prevent any discharge of oil
- Does not lose shape
- · Does not float (self weight inhibits flotation)



GULLY COVER SLABS



STANDARD GULLY COVER



HORSESHOE GULLY COVER

PRODUCT BENEFITS

- · 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





Dimensions (mm)	Standard	Horseshoe
Length	750	600
Width	650	650
Thickness	100	100
Weight (kg)	70	58
Hole Size	375 450	375 450
Qty/Pack	12	12

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



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 readymixed concrete, making them particularly suitable for use in hard-to-reach locations and in environmentally sensitive areas.

- 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
- The extended toe unit is available for all sizes making the entire headwall range compliant with Sewers for Adoption (SFA) and Sewers for Scotland
- Headwalls meet the requirements indicated in Fig. C.5 (typical details) of Sewers for Adoption

Headwall Range	Up to & inc. Pipe Sizes	Max Pipe O.D. (mm)	Approx. Weight (Kg)
HW Small 100	300	450	1100
HW Small 150	300	450	1390
HW Medi- um 100	450	630	1540
HW Medi- um 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
964 2558			

STORMCLEANSERTM

HYDRODYNAMIC SEPARATOR

FP McCann has designed and developed a new range of hydrodynamic separators for the treatment of urban catchment stormwater run-off. StormCleanser™ provides a cost-effective solution for designers, engineers and contractors involved in the provision of Sustainable urban Drainage Systems (SuDS). The unit has no moving parts, requires no power and is constructed within standard precast reinforced concrete chamber rings. All internal flow components are manufactured in GRP, ensuring long life performance.

INDEPENDENT TESTING

FP McCann's StormCleanserTM (1200mm diameter model) has been independently tested by WRc at their research and development centre and achieved excellent total solids and hydrocarbon removal at design flow rates.

Total solid removal rates ranging from 85% to 92% have been recorded. The StormCleanser™ has demonstrated high level removal rates when design flows were exceeded.

The system is also effective in the removal of hydrocarbons, litter and other stormwater debris.



SELECTION CHART

Part Number	PRE EHS /1200	PRE EHS /1500	PRE EHS /1800	PRE EHS /2100
Chamber Diameter (mm)	1200	1500	1800	2100
Treatment Flow Rate (I/sec)	25	35	50	75
Maximum Flow Rate (I/sec)	35	50	100	150
Inlet Pipe Diameter (mm)	300	375	450	525
Outlet Pipe Diameter (mm)	300	375	450	525
Minimum Sediment Storage Sump (m³)	0.82	1.24	1.64	2.17

STORMCHANNELTM

HEAVY DUTY PRECAST DRAINAGE CHANNEL

WHAT IS STORMCHANNEL™?

FP McCann's StormChannel™ is a heavy duty, precast concrete slotted drainage channel designed to remove surface water from many areas, including roads, motorways, car parks, industrial, commercial and residential areas. This helps to prevent flooding and run-off.

RENEFITS:

- Quick installation
- Minimal maintenance
- Excellent flow rates even at zero or shallow gradients
- Modular system
- Robust product
- Economical product
- Integrated watertight seal
- No concrete surround required
- Conforms to EN 1433

FFATURES:

- Resilient up to classes D400kN
- 2% surface slope to the slot
- Supplied with interrupted slot only slot width 30mm
- Standard inner diameter: 480mm x 300mm
- Drainage cross section: 0.125m²
- Spigot and socket end for correct alignment and joining

Additional connections can be provided on request. Junction box sump unit also available in all sizes.

FP McCann offers two types of StormChannel™:

- 1. A precast concrete bullnosed kerb drainage channel has a linear slot drain and a profiled, oblong drainage channel.
- 2. A standard precast concrete drainage channel with an interrupted slot and stabiliser bars for increased stability.

StormChannel™	Length (mm)	Height (mm)	Weight (kg)	Width (mm)
300 Standard	2500	550	1400	520
400 Standard	2500	740	1700	520
400 Kerb	2500	790	1700	520
500 Standard	2500	805	2300	700
600 Standard	2500	990	2600	700





400 Standard



400 Kerh



500 Standard



600 Standard

STORMSTORETM

TANK AND CHAMBER SYSTEMS

FP McCann's StormstoreTM range of precast tank and chamber systems is the most extensive in the UK. Products manufactured include StormTankTM bespoke precast concrete panel system, StormChamberTM bespoke precast concrete chamber system, a precast concrete storm and waste water management system called Modular Tank System and StormHoldTM stormwater management system. Complementary products include StormCleanserTM hydrodynamic separator, StormBrakeTM vortex flow control system and StormChannelTM heavy-duty precast concrete slotted drainage channel.

KEY ADVANTAGES OF OUR RANGE

- From receiving the specification, designs can be returned within 2 days
- Complete design package provided, including calculations and drawings
- Manufactured off-site, including factory-fitted pipework and flow control connections, ensures consistent quality, lower construction costs, faster installation and lower health and safety issues
- Design service life of 100 years
- Overall cost of the project can be estimated no matter how complicated the design
- Bespoke designs can be used for reproductions and for future alterations
- No vertical shuttering required, unless an in-situ floor is installed
- Complies with all relevant British Standards and Eurocodes



STORMCHAMBERTM

MULTIPURPOSE CHAMBER SYSTEM

FP McCann's StormChamber™ multipurpose chamber system is a single piece chamber system made up of a base unit, risers and cover slab to suit chamber depth and the specific application. A 3D dimensional drawing is available on request. This flexible modular system is suitable for most tank and chamber applications.

Internal Dimensions (mm)				
1250 x 1250	2000 x 1500	2500 x 2000	3000 x 2500	
1500 x 1500	2000 x 2000	2500 x 2500	3000 x 3000	

The above size range do not generally have toe units.

Sizes above 3000x3000mm up to a maximum size of 5000x3500mm. The length and width of these chambers can be adjusted up/down in 250mm increments to suit requirements. The height of the chamber is



flexible up to 6 metres, with 8 metres possible, subject to calculations.

If chamber dimensions are critical and don't fit with the above range, we can usually offer a solution.

BENEFITS

- Concrete surround is not required, saving time and money on site installation. Up to 85% reduction in on-site construction programme
- Pipe penetrations are done at the factory, avoiding the need for cutting or core drilling on site
- Weir walls, flow controls etc can be factory fitted, if required. Up to 95% reduction in site man-hours for pit construction
- · Virtual elimination of on-site waste
- 55% reduction in lorry movements for deliveries
- Traffic calming/ management reduction

- · Significant reduction in site noise
- Clear openings to suit requirements
- Reduces enclosed spaces work and working at depth
- Reduction in Health and Safety and Dynamic Risk Assessment issues
- Enhanced functionality product can be designed for future alterations
- A flexible modular system with a high quality factory finish
- Greatly reduces long term maintenance costs

STORMTANKTM

MULTIPURPOSE PANEL SYSTEM

The StormTank[™] multipurpose panel system is an underground structure consisting of wall panels, an in-situ or precast concrete base and cover slab, which are assembled on-site by the contractor or an approved installer using a range of standard jointing types. The panels can be made with cast-in pipe connections, recesses and openings and have penstocks or flap valves pre-installed. Internal weir-walls, overflows, underpasses and baffle walls can also be incorporated into the structure.

This system can be used for a variety of uses such as CSO chambers, storage tanks, large size manholes, pumping stations, valve chambers etc. The main advantage of using this system is that there is no size limitation, except for the height, which cannot exceed six metres, with a two metre overburden. A detailed installation guide is available. Please contact FP McCann for further details.

PRODUCT APPLICATIONS

- Air-infiltration chambers
- Hydro-brake chambers
- Large CSO chambers
- · Water storage tanks
- Pumping stations
- Attenuation tanks

- · Large manholes
- ASP structures
- Sludge tanks
 - Basements
- Headwalls







FP McCann's modular, storm and waste water management system provides a multifunctional, durable solution for the detention, retention, infiltration, harvesting and treatment of water, comprising of a combination of standardised precast concrete elements, which are designed to solve your storm and waste water management needs.

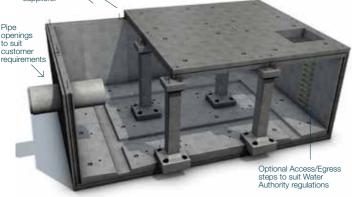
Detention

StormStore™ provides a cost-effective solution for site applications where stormwater needs to be detained and allowed to discharge at a controlled rate.

Vertical sealing strips, hydrophillic seal and thixotropic. Grout by FP McCann approved suppliers.

Retention

StormStore™ retention systems are ideal for applications where the goal is to retain rainwater or stormwater for some type of harvest and reuse applications.



Infiltration

Eliminate the issues created with discharging stormwater off-site by using a StormStore™ to infiltrate stormwater into the soil for natural treatment and to replenish local aquifiers.

Harvesting

Water harvesting is the collection, storage, cleaning and recycling of stormwater to replace or reduce the consumption of municipal potable water

Treatment

Stormwater treatment options such as pretreatment, post-treatment and oil water separators are available as standalone systems, as well as integration with StormStore.

STORM-HOLD™

LARGE DIAMETER PIPE STORMWATER
MANAGEMENT SYSTEM

The Storm-Hold™ system offers a complete solution to the stormwater attenuation problem and utilises a tried, tested and approved method of stormwater storage. FP McCann can provide the complete package of design, product specification and supply of products and installation advice.

PRODUCT FEATURES

- Available in a range of sizes
- Can use and combine a number of techniques and products such as pipes, culverts, tanks, manifold systems and soakaways
- A complete solution with all connections
- Established and familiar products
- Can be laid in short lengths

- The system can be adapted to load-bearing and non-load bearing applications
- 120 year design life
- · Adoptable by water companies
- Manufactured in accordance with a BSI accredited quality management system conforming to ISO 9001
- Available straight from stock

STRUCTURAL

Storm-Hold systems can be tailored to suit low load situations, for example, when the tank is to be situated below verges or gardens.

BENEFITS

- System can be designed specifically to suit the application
- Quick construction using a standard joint
- No need for fabrication on-site or external specialist contractors
- Straightforward installation using known techniques, no need to retrain

- Can be installed under roads and car parks
- Can cope with construction plant loading
- Flotation is not a concern no need for geotechnical anchors when located below the water table
- Long term solution

DESIGN

The design of the system can be tailored to suit most structural and hydraulic criteria.

For details on material cost savings whilst using concrete drainage, visit the BPDA website www.precastdrainage.co.uk/calculators/material-cost



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.

STRUCTURAL STRENGTH AND LONG LIFE **PERFORMANCE**

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

EASE OF INSTALLATION

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

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.

APPLICATIONS

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



DRY WEATHER FLOW CHANNELS

Prefabricated dry weather flow channels for pipes and box culverts are available. Half round (or equivalent) channels can be cast into the floor of the units at any position, with a choice of equivalent half round diameters.







KNOCKLOUGHRIM PRECAST FACTORY

16-18 Quarry Road, Knockloughrim, Magherafelt, BT45 8NR Tel 028 7954 9026

KNOCKLOUGHRIM QUARRY

3 Drumard Road, Knockloughrim, Magherafelt, BT45 8QA Tel 028 7964 2558

BRADLEY'S QUARRY, KILREA

84 Cullyrammer Road, Kilrea, Coleraine, BT51 5YF Tel 028 2954 0285

CLARKE'S QUARRY / PRECAST FACTORY

105 Nutfield Road, Slush Hill, Lisnaskea, BT92 0HP Tel 028 6772 1286

COOKSTOWN QUARRY

Feegarron Road, Cookstown, BT80 9QS Tel 028 8676 4803

COOTE'S QUARRY, ARMAGH

56 Redrock Road, Armagh, BT60 2BL Tel 028 3755 1126

GLENSHANE QUARRY

946 Glenshane Road, Dungiven, BT47 4SD Tel 028 7774 0533

LOUGHSIDE QUARRY

146 Belfast Road, Larne, BT40 2PN Tel 028 2826 0824

MALLUSK DEPOT

140 Mallusk Road, Newtownabbey, BT36 4QN Tel 028 9083 0005

OMAGH SANDPIT

97 Spring Road, Omagh, BT79 0LA Tel 028 8077 1667