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TRACEY
CONCRETE

Drainage Brochure

DESIGNING | MANUFACTURING | DELIVERING

watertight 



traceyconcrete.com

Tracey Concrete is one of the largest precast concrete manufacturers in the UK and Ireland.

Tracey Concrete's success has been built on the consistent quality of our products, efficient delivery and outstanding customer service. With our vast experience and expertise in the construction industry we have been able to design and supply precast concrete products for some of the biggest projects in the UK and Ireland.

Our products comply with all necessary certifications and are accredited with the most up to date British and European standards, with the relevant products being BSI kitemarked and CE marked.

WE SPECIALISE IN

- Precast Concrete Drainage Systems
- Precast Tunnelling Systems
- Cable Trough Systems
- Agricultural Precast
- Precast Fencing
- Ready-mix and Liquid Screed Concrete
- Bespoke Precast Concrete Systems
- Bio Klenze™ Sewage Treatment Systems
- Quarry Products



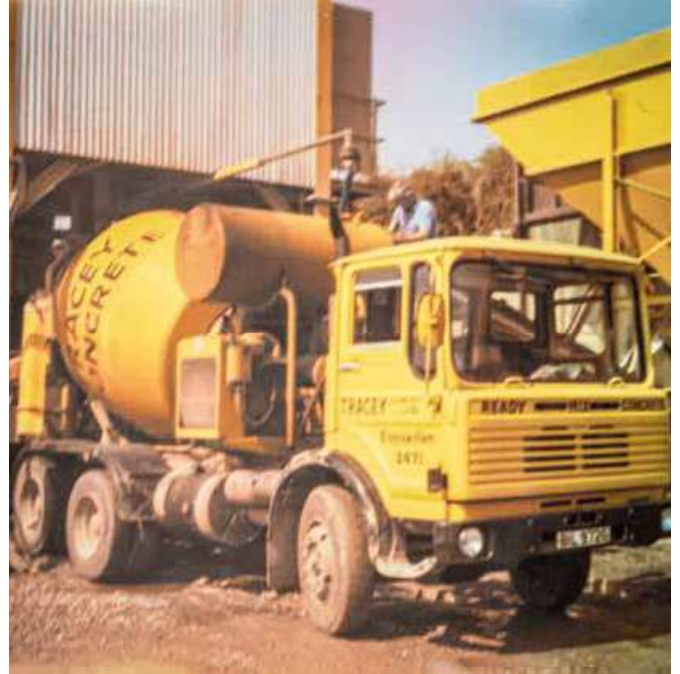
Tracey Concrete's Precast Drainage Factory - Enniskillen

Our Story

Tracey's began as a family-run contracting business in the early 1960's installing watermains throughout Northern Ireland. In the 1970's, Tracey Concrete Ltd was formed as a readymix concrete supplier to the public.

Over the years, the company expanded into new product ranges manufacturing precast concrete cills & lintels and agricultural cattle slats. In the 1990's, the business expanded into precast drainage product's manufacturing concrete pipes and manhole rings becoming a leading precast drainage supplier in Ireland.

In 2003, Tracey Concrete entered the UK market supplying projects in England, Scotland and Wales. Tracey Concrete are now a leading supplier of Precast Drainage and Tunnelling throughout the UK and Ireland.



Tracey Readymix Lorry 1970's



Tracey Concrete's Belcoo Quarry



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SPIGOT & SOCKET PIPES

DN225 - 2100

Tracey Concrete offers a wide selection of Spigot & Socket Pipes in a range of diameters and lengths to meet any project specifications. Manufactured to British Standard BS EN 1916 & BS 5911-1 and BSI Kitemarked.



SPIGOT & SOCKET PIPES / DN225 - 2100

Size Internal Dia	mm	225	300	375	450	525	600	675	750	900	1050	1200	1350	1500	1800	2100
Barrel Dia	mm	331	405	485	580	675	780	855	940	1100	1280	1470	1650	1830	2180	2480
Socket Dia	mm	445	540	650	730	805	920	1015	1090	1290	1370	1660	1820	2000	2290	2590
Effective Length	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
Overall Length	mm	2595	2600	2595	2595	2610	2600	2600	2632	2632	2620	2640	2650	2640	2650	2645
Approx Weight	KG	280	430	580	760	930	1230	1370	1745	2190	2730	3980	4745	5755	7600	9210
To suit Manhole	mm	1050	1200	1350	1350	1500	1500	1500	1800	1800	2100	2100	2400	2400	2700	3000
Maximum Deflection	°	2	2	2	2	2	2	2	1	1	1	1	0.5	0.5	0.5	0.5
Reinforced	Y/N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
Lifting Anchor	-	-	-	-	-	-	-	-	-	-	-	2x7.5T	2x7.5T	2x10T	2x10T	2x10T
Integrated Joint	Y/N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N
Lamell Joint	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Spigot & Socket pipe sizes DN1200 & above are manufactured with 2No lifting anchors for spherical 10T lifting Shackles

ROCKER PIPES DN225 - 2100



ROCKER PIPES / DN225 - 2100

Size Internal Dia	mm	225	300	375	450	525	600	675	750	900	1050	1200	1350	1500	1800	2100
Effective Length	mm	600	600	600	600	600	600	820	1000	1230	1245	1180	1310	1290	1300	1330
Approx Weight	KG	79	120	159	270	332	438	485	913	1133	1421	2290	2614	3117	4158	5137

SPIGOT BUTT END PIPES DN225 - 2100



SPIGOT BUTT END PIPES / DN225 - 2100

Size Internal Dia	mm	225	300	375	450	525	600	675	750	900	1050	1200	1350	1500	1800	2100
Effective Length	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Approx Weight	KG	140	215	290	380	465	615	685	873	1095	1365	1990	2373	2878	3800	4605

Lengths may vary depending on availability

SOCKET BUTT END PIPES DN225 - 2100



SOCKET BUTT END PIPES / DN225 - 2100

Size Internal Dia	mm	225	300	375	450	525	600	675	750	900	1050	1200	1350	1500	1800	2100
Effective Length	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Approx Weight	KG	140	215	290	380	465	615	685	873	1095	1365	1990	2373	2878	3800	4605

Lengths may vary depending on availability



DOUBLE SPIGOT PIPE DN225 - 900



DOUBLE SPIGOT PIPE / DN225 - 900

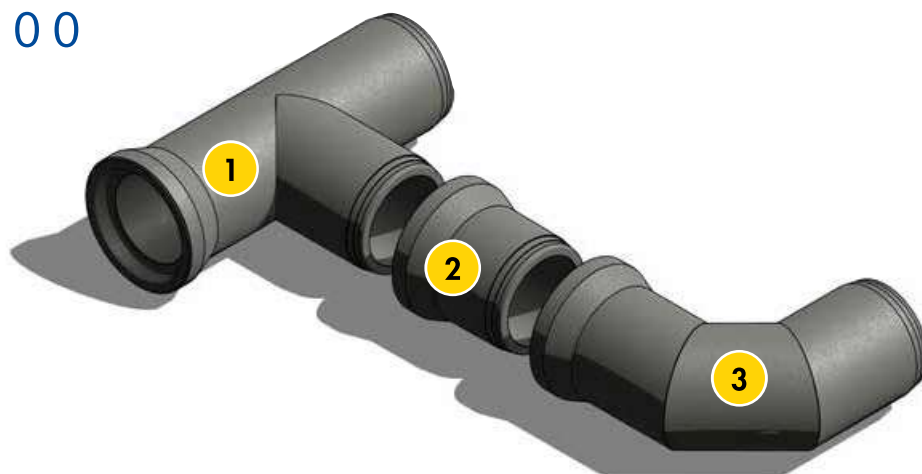
Size Internal Dia	mm	225	300	375	450	525	600	675	750	900	1050	1200	1350	1500	1800	2100
Effective Length	mm	495	570	530	730	820	825	820	1245	1245	-	-	-	-	-	-
Approx Weight	KG	55	80	95	184	283	349	415	757	924	-	-	-	-	-	-

JUNCTIONS* DN225 - 2100

JUNCTIONS / DN225 - 2100

- 1 Tumbling Bay
- 2 Special Length Pipe
- 3 90 Degree Bend

* Note - Only made to order*



BENDS* DN225 - 2100

BENDS / DN225 - 2100

Common Angles
11.25 °
22.5 °
45 °
90 °



* Note - Only made to order*

* Other angles available on request*



t.028 6632 6437

JUNCTION SEALS

Junction seals to suit 100mm & 150mm pipe connections can be fitted to all sizes of our concrete pipe.

Seals are supplied to suit branches made from solid wall PVC, rib sewer, twin-wall surface drainage, supersleeve clay & densleeve clay.

Junction Seals can be fitted to a full length pipe or rock-er pipes in positions to suit site requirements.

Junctions to suit other pipe sizes and types are available on request.



150mm Twinwall



Forsheda 910
202 x 16mm

150mm Solid
Wall PVC



Forsheda 910
190 x 20mm

150mm
Ultra - Rib



Forsheda F-910
202 x 20mm

150mm Densleeve



Forsheda 910
217 x 20mm

150mm Super Sleeve



Forsheda 911-7
Uni Junction DN 167

150mm Super Sleeve



DS LKR
150 / 202



LIFTING AND HANDLING



Lubricant



■ Step 1

Before assembly, inspect the pipes and ensure socket and spigot are free from gravel or dirt. Use a damp cloth to wipe the seal clean.

■ Step 2

Using **ONLY TRACEY CONCRETE** supplied lubricant apply it to the spigot end of the pipe. See our website for number of tubs of lubricant required per diameter of pipe. www.traceyconcrete.com/pipes

■ Step 3

Ensure the lubricant is evenly applied all around the spigot end. Lubrication is easier with the pipe suspended off the ground. Dry jointing can lead to damage of the seal and pipe.

■ Step 4

Centre the pipes in position then push the spigot into the socket end. Inspect pipes after installation to ensure assembly is complete. Air tests can then be carried out regularly using inflatable stoppers.

Important Jointing Information

The integral pipe-seal jointing system used in Tracey Concrete's Spigot & Socket Pipes requires the use of an approved proprietary lubricant, which is available for supply with all pipe orders from Tracey Concrete sales team. Failure to use the approved proprietary lubricant in accordance with the instructions provided by the pipe-seal manufacturer and Tracey Concrete may give rise to problems with pipe jointing and seal performance and invalidate any warranty, implied or otherwise. Tracey Concrete accepts no responsibility whatsoever for problems or loss of performance arising from any such failure.



DRY WEATHER FLOW PIPES DN900 - 2100

Dry weather flow channels are cast into the spigot & socket pipe during factory production as an off-site solution. Insufficient flow velocities during dry weather flow can increase retention time in pipes and if channels are not designed correctly can lead to undesirable sedimentation of solid particles.



*Only manufactured to order

Case Studies S&S Pipes

TRACEY CONCRETE **YorkshireWater**

Hull Venus - Moorhaven Group - Barn Hurlall - Yorkshire Water

In March 2017 the Moorhaven group started construction of a new main sewer line in Hull as part of the new A36 2M Hull Venus. Working with main contractor Barn Hurlall for Yorkshire Water.

moortown **bam nutall**

TRACEY CONCRETE **BUXTED CONSTRUCTION**

Linden BOVIS BLOOR HOMES

Installation times of the drainage units were halved by using the Perfect Base & Microtight Microtite System. Over the entire project Tracey Concrete supplied Spigot & Socket Pipes, Perfect Base, Microtite Microtite Bags, Cover casts, Gullies and Manholes.

TRACEY CONCRETE **SEVERN TRENT WATER**

Northock - S&I Groundworks - Harron Homes - Severn Trent Water

In February 2017 S&I Groundworks started drainage in Northock, Derbyshire on a new Harron Homes residential development.

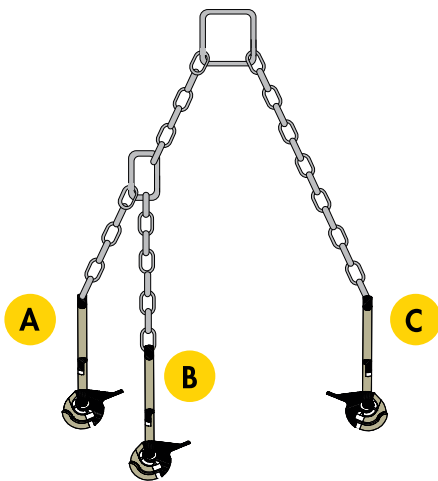
S&I GROUNDWORKS **harron HOMES**

LIFTING AND HANDLING

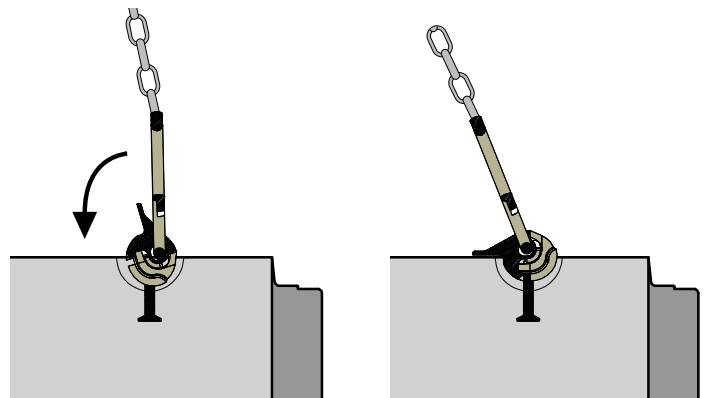
Tracey Concrete's pipes from DN1200 and upwards should be handled using our spherical lift anchor system. 10T lifting anchors are cast into the pipe during manufacture to suit a spherical lift shackle that hooks to the anchor to lift the pipe. All lifting equipment is available from Tracey Concrete.

Firstly lift the new pipe into place using equal length chains (A & C) as shown below. Then to join the pipes together fit the longer chain (B) to the pipe already in place, then hook the shorter length chain (A) onto the new pipe in the arrangement shown below. Lift the chains vertically and the new pipe will then join into the pipe already in place.

THE CHAIN SET



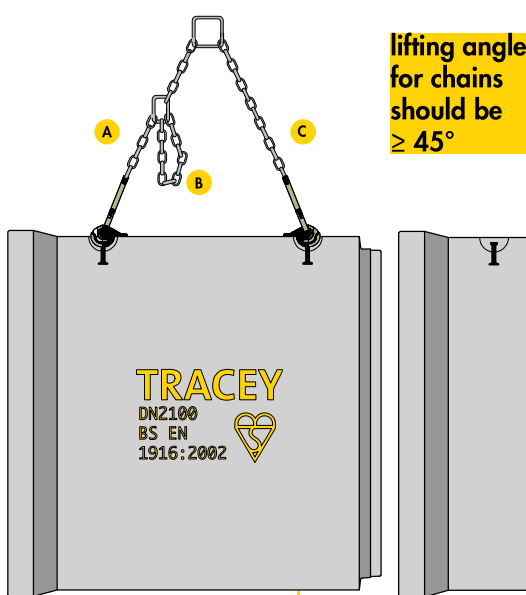
FITTING THE SHACKLE



POSITION SHACKLE

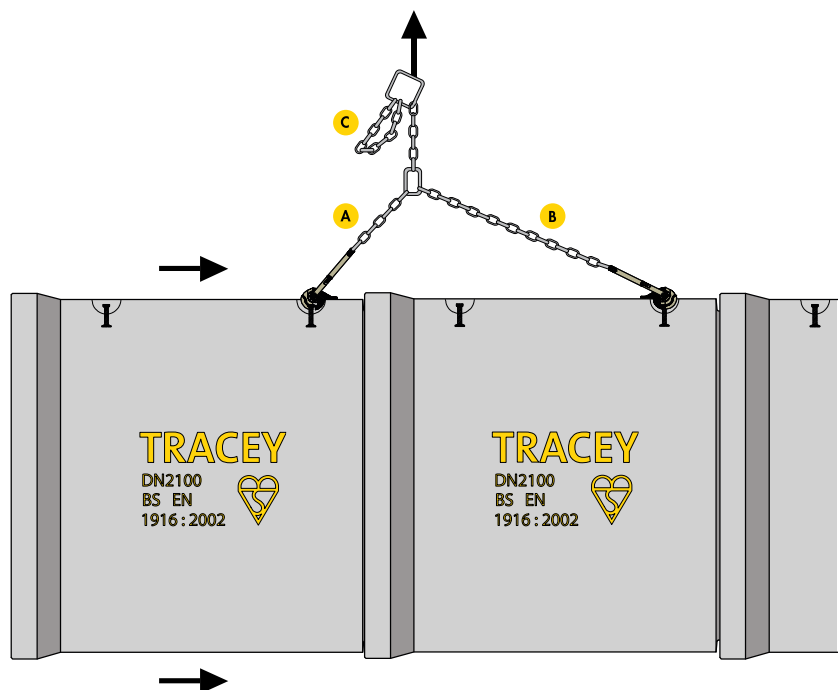
THEN ENGAGE

LIFTING & HANDLING



Place new pipe as close as possible to already installed pipe

JOINTING PIPES



PERFECT BASE™

DN1200, 1500, 1800 & 2100

The Tracey Concrete Perfect Base™ is a custom-made watertight monolithic benched concrete base.

The Perfect Base™ allows Tracey Concrete to manufacture any practical channel inlet/outlet configuration. Inlets are possible at every angle from 90 degrees to 270 degrees from outlet.

The extra flexibility of the Perfect Base™ therefore allows for bespoke base design.

All Perfect bases™ are individual, custom-made to exact site requirements.

Tracey Concrete's large production facilities allow for swift manufacture & delivery to site just days after order.

- Fast Installation
- Safe Installation
- Economical
- Available in DN1200,1500,1800 & 2100mm
- Any Inlet/Outlet Angle
- Complete Take-off Service
- Wide Wall - No concrete surround required
- No on-site benching needed
- Less exposure to silica dust - No cutting inlets/rings
- BSI Kitemarked



PERFECT BASE™

DN1200, 1500, 1800 & 2100

Perfect Base™ – The Future of Manhole Construction

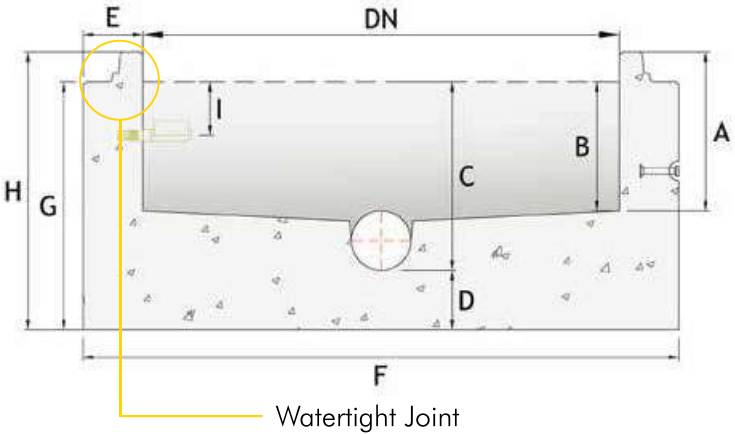
- **Every Angle:**
Each Perfect Base™ can be manufactured with **limitless channel configurations**
- **Custom Connections:**
Manufactured with integrated couplers to suit any pipe type
- **Take-off Service:**
Bases manufactured to CAD site drawings
- **Simple Installation:**
Certified lifting shackles can be provided for safe and easy installation
- **Low Carbon Footprint:**
40-45% more environmentally friendly than traditional methods
- **Access:**
Double steps or ladder rungs available
- **Custom Design:**
Available with custom inlet/outlet & crown/invert configuration
- **Safer Installation:**
Reduced working time in confined spaces/excavation
- **Watertight System:**
The combination of a thicker wall and rubber joint ensures a watertight structure
- **Efficiency:**
Installation times significantly shorter than traditional methods
- **Design Life:**
120 years
- **Quality:**
Complies with BS EN 1917 and BS 5911-3
Accepted by major water companies and is included in Sewers for Adoption



DN1200 PERFECT BASE™ SPECIFICATIONS

DN1200 Perfect Base is the ideal solution for housing projects. The flexible design works well with small diameter pipe.

DN 1200 is the most common size of manhole ring. The table below gives the diameter & weight of the Base depending on the size required.



PERFECT BASE / DN1200

Inlet/Outlet Diameter	A	B	C	D	E	F	G	H	I	Approx Weight (KG)
100	400	325	475	150	150	1500	625	700	125	1710
100	300	225	375	150	150	1500	525	600	125	1550
100	200	125	275	150	150	1500	425	500	125	1400
100	100	25	175	150	150	1500	325	400	125	1250
150	400	325	475	150	150	1500	625	700	125	1710
150	300	225	375	150	150	1500	525	600	125	1550
150	200	125	275	150	150	1500	425	500	125	1400
150	100	25	175	150	150	1500	325	400	125	1250
225	400	325	575	150	150	1500	725	800	125	2020
225	300	225	475	150	150	1500	625	700	125	1870
225	200	125	375	150	150	1500	525	600	125	1710
300	400	325	625	150	150	1500	775	850	125	2150
300	300	225	525	150	150	1500	675	750	125	2000
300	400	325	625	150	190	1580	775	850	125	2450
300	300	225	525	150	190	1580	675	750	125	2240
375	400	325	625	150	190	1580	775	850	125	2550
375	300	225	525	150	190	1580	675	750	125	2750
450	400	325	625	150	260	1720	775	850	125	3450
450	300	225	525	150	260	1720	675	750	125	3750

Dimensions may vary depending on type of pipe used. Core Height (A) can be adjusted in 50mm intervals



DN1200 WATERTIGHT MANHOLE RINGS & SLABS

WATERTIGHT MANHOLE RINGS / DN1200

Internal Dia	Depths				Wall Thickness	Overall Dia	Circum	Approx Weight/m	Type of Joint	Lifting Shackle	Step Heights
mm	250mm	500mm	750mm	1000mm	mm	mm	mm	KG	-	-	-
1200	✓	✓	✓	✓	130	1460	4712	1350	Watertight	3 x 2.5T	250mm

Tracey Concrete watertight manhole rings are manufactured with a watertight joint which is a superior seal to a tongue & groove joint. The 130mm thick wall eliminates the need for a concrete surround, creating an impermeable chamber.



3No **2.5T** Spherical lift shackles are required to lift DN1200 watertight manhole rings and Perfect Base

*Note - Different sizes of spherical lifters are required for each diameter of base



Cast in lifting Anchor

WATERTIGHT MANHOLE COVER SLABS / DN1200

To Suit Internal Dia	Overall Dia	Effective Depth	Approx Weight	Standard Openings Available				
mm	mm	mm	KG	600 SQ	675 SQ	600 RD	750 SQ	750 x 600
1200	1554	230	720	E	E	E/C	E	E

Bespoke openings can be manufactured on request

C = Central Opening E = Eccentric Opening

Tracey Concrete watertight cover slab also has a watertight joint which provides a watertight seal between the cover slab and top MH ring completing the watertight manhole chamber.



3No lifting loops are cast into the cover slab for lifting. A set of equal length 3 leg chains with hooks is recommended

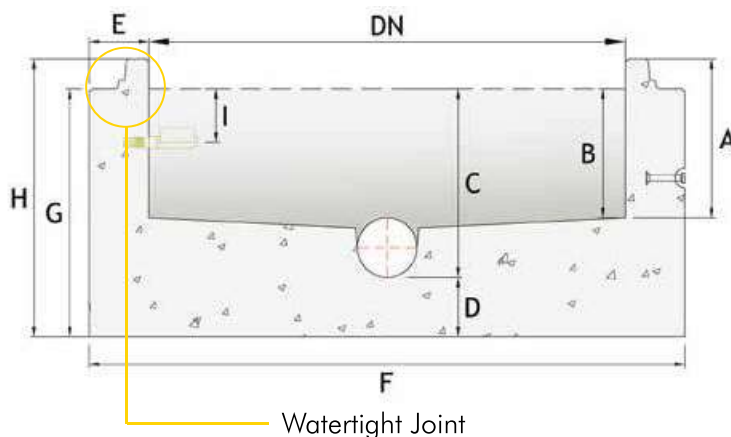


Cast in lifting loop

DN1500 PERFECT BASE™ SPECIFICATIONS

DN1500 Perfect Base is the ideal solution for housing projects. They are typically designed for any type of 375-675 diameter pipes.

The height of DN1500 Perfect Base can be adjusted to suit your specified onsite ground levels. The table below shows the range of heights that can be achieved for each pipe diameter.



PERFECT BASE / DN1500

Inlet/Outlet Diameter	A	B	C	D	E	F	G	H	I	Approx Weight (KG)
375	500	415	815	200	230	1960	1015	1100	175	5000
375	400	315	715	200	230	1960	915	1000	175	4700
375	300	215	615	200	230	1960	815	900	175	4400
450	500	415	915	200	230	1960	1115	1200	175	5390
450	400	315	815	200	230	1960	1015	1100	175	5090
450	300	215	715	200	230	1960	915	1000	175	4790
450	200	115	615	200	230	1960	815	900	175	4490
525	500	415	915	200	230	1960	1115	1200	175	5390
525	400	315	815	200	230	1960	1015	1100	175	5090
525	300	215	715	200	230	1960	915	1000	175	4790
600	500	415	915	200	230	1960	1115	1200	175	5390
600	400	315	815	200	230	1960	1015	1100	175	5090
675	900	815	1315	200	320	2140	1515	1600	175	8050
675	800	715	1215	200	320	2140	1415	1500	175	7600

Dimensions may vary depending on type of pipe used. Core Height (A) can be adjusted in 50mm intervals



DN1500 WATERTIGHT MANHOLE RINGS & SLABS

WATERTIGHT MANHOLE RINGS / DN1500

Internal Dia	Depths				Wall Thickness	Overall Dia	Circum	Approx Weight/m	Type of Joint	Lifting Shackle	Step Heights
mm	250mm	500mm	750mm	1000mm	mm	mm	mm	KG	-	-	mm
1500	✓	✓	✓	✓	150	1800	5655	1925	Watertight	3 x 5T	250

1500 watertight manhole rings are manufactured with a watertight joint and 130mm thick wall eliminating the need for a concrete surround thus saving time and money.



3No **5T** Spherical lift shackles are required to lift DN1500 watertight manhole rings and Perfect Base

*Note - Different sizes of spherical lifters are required for each diameter of base



Lifting shackle mid lift

WATERTIGHT MANHOLE COVER SLABS / DN1500

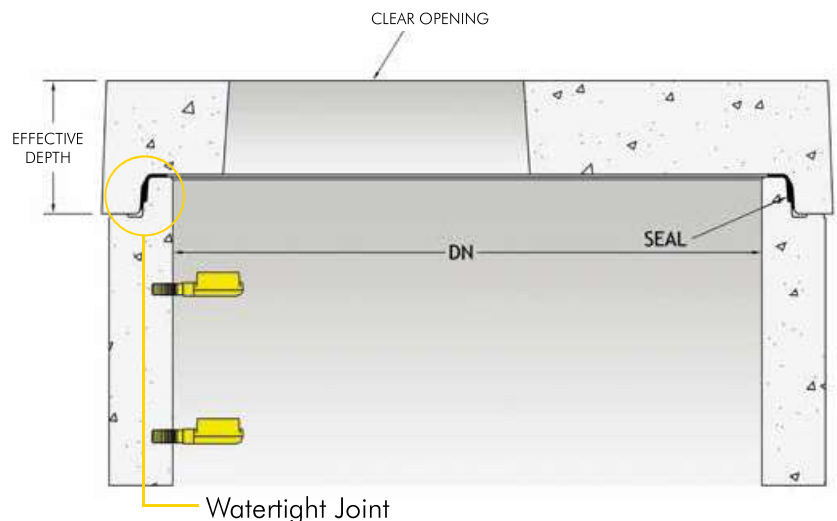
To Suit Internal Dia	Overall Dia	Effective Depth	Approx Weight	Standard Openings Available					
mm	mm	mm	KG	600 SQ	675 SQ	600 RD	750 SQ	1200 x 675	750 x 600
1500	1900	260	1205	E	E	E/C	E	E	E

Bespoke openings can be manufactured on request
C = Central Opening E = Eccentric Opening

Tracey Concrete watertight cover slab also has a watertight joint which provides a watertight seal between the cover slab and top MH ring completing the watertight manhole chamber.

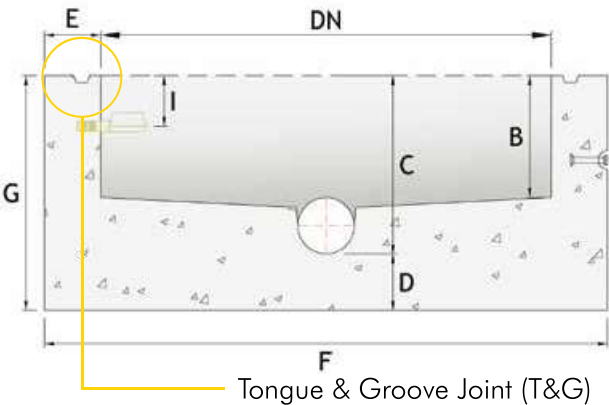


3No lifting loops are cast into the cover slab for lifting. A set of equal length 3 leg chains with hooks is recommended



DN1800 PERFECT BASE™ SPECIFICATIONS

DN1800 is used for larger diameter storm drainage typically for any pipe material ranging from 675-900mm diameter. DN1800 Perfect Base can also be used in precast concrete attenuation systems.



PERFECT BASE / DN1800

Inlet/Outlet Diameter	B	C	D	E	F	G	I	Approx Weight (KG)
675	900	1400	200	300	2400	1600	125	10180
675	800	1300	200	300	2400	1500	125	9700
675	700	1200	200	300	2400	1400	125	9230
675	600	1100	200	300	2400	1300	125	8750
750	900	1400	200	300	2400	1600	125	9970
750	800	1300	200	300	2400	1500	125	9490
750	700	1200	200	300	2400	1400	125	9020
750	600	1100	200	300	2400	1300	125	8540
900	900	1400	200	300	2400	1600	125	9780
900	800	1300	200	300	2400	1500	125	9310
900	700	1200	200	300	2400	1400	125	8830
1050	900	1400	200	300	2400	1600	125	8900

Dimensions may vary depending on type of pipe used. Note: DN1800 Base only available in T&G option
Smaller diameter pipe may be used with smaller core heights.

Top Tip - reducers can be installed where possible to reduce the weight



DN1800 MANHOLE RINGS & SLABS

MANHOLE RINGS / DN1800

Internal Dia	Depths				Wall Thickness	Overall Dia	Circum	Approx Weight/m	Type of Joint	Lifting Hole	Step Heights
mm	250mm	500mm	750mm	1000mm	mm	mm	mm	KG	-	-	-
1800	-	✓	✓	✓	125	2050	6050	1800	T&G	3 x 50mm	250mm

Tracey Concrete 1800mm manhole rings are manufactured with a T&G joint. The 125mm thick wall eliminates the need for a concrete surround. The chamber is sealed using 120mm x 12mm x 6m conceal jointing bitumen strip.



3No 38mm lifting pins are required to lift DN1800 manhole rings. A waterproof grout will be required to seal each lift hole after install. 3No **10T** Spherical lift shackles to lift Perfect Base

*Note - Different sizes of spherical lifters are required for each diameter of base



Conceal jointing strip

MANHOLE COVER SLABS / DN1800

To Suit Internal Dia	Overall Dia	Effective Depth	Approx Weight	Standard Openings Available						
mm	mm	mm	KG	600 SQ	675 SQ	750 SQ	1200 x 675	750 x 600	2No 600SQ	2No 675SQ
1800	2050	200	1425	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock

Bespoke openings can be manufactured on request

C = Central Opening E = Eccentric Opening

Tracey Concrete precast cover slabs come with standard openings as per the table above. Cover slabs with bespoke openings, davit sockets or special finishes can be manufactured on request. Reducing slabs and landings slabs can also be made on request.



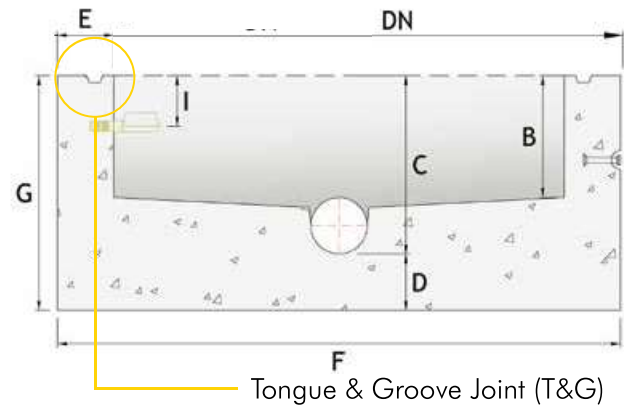
3No lifting loops are cast into the cover slab for lifting. A set of equal length 3 leg chains with hooks is recommended



Cast in lifting loops

DN2100 PERFECT BASE™ SPECIFICATIONS

DN2100 is used for larger diameter storm drainage typically for any pipe material ranging from 675-900mm diameter. DN2100 Perfect Base can also be used in Precast Concrete attenuation systems



PERFECT BASE / DN2100

Inlet/Outlet Diameter	B	C	D	E	F	G	I	Approx Weight (KG)
675	900	1400	200	300	2400	1600	125	10180
675	800	1300	200	300	2400	1500	125	9700
675	700	1200	200	300	2400	1400	125	9230
675	600	1100	200	300	2400	1300	125	8750
750	900	1400	200	300	2400	1600	125	9970
750	800	1300	200	300	2400	1500	125	9490
750	700	1200	200	300	2400	1400	125	9020
750	600	1100	200	300	2400	1300	125	8540
900	900	1400	200	300	2400	1600	125	9780
900	800	1300	200	300	2400	1500	125	9310
900	700	1200	200	300	2400	1400	125	8830
1050	900	1400	200	300	2400	1600	125	8900

Dimensions may vary depending on type of pipe used. Note: DN1800 Base only available in T&G Option
Smaller diameter pipe may be used with smaller core heights.

Top Tip - reducers can be installed where possible to reduce the weight



DN2100 MANHOLE RINGS & SLABS

MANHOLE RINGS / DN2100

Internal Dia	Depths				Wall Thickness	Overall Dia	Circum	Approx Weight/m	Type of Joint	Lifting Hole	Step Heights
mm	250mm	500mm	750mm	1000mm	mm	mm	mm	KG	-	-	-
2100	-	✓	✓	✓	140	2380	7050	2400	T&G	3 x 50mm	250mm

Tracey Concrete DN2100 manhole rings are manufactured with a T&G joint. The 140mm thick wall eliminates the need for a concrete surround, creating an impermeable chamber.



3No 38mm lifting pins are required to lift DN2100 manhole rings. A waterproof grout will be required to seal each lift hole after install.
3No **10T** Spherical lift shackles to lift Perfect Base

*Note - Different sizes of spherical lifters are required for each diameter of base



Conseal jointing strip

MANHOLE COVER SLABS / DN2100

To Suit Internal Dia	Overall Dia	Effective Depth	Approx Weight	Standard Openings Available						
mm	mm	mm	KG	600 SQ	675 SQ	750 SQ	1200 x 675	750 x 600	2No 600SQ	2No 675SQ
2100	2375	200	1990	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock

Bespoke openings can be manufactured on request
C = Central Opening E = Eccentric Opening

DN2100 Cover slabs come also in a range of standard openings shown in the table above. Cover slabs with bespoke openings, davit sockets or special finishes can be manufactured on request. Reducing slabs and landings slabs can also be made on request.



3No lifting loops are cast into the cover slab for lifting. A set of equal length 3 leg chains with hooks is recommended



Rocker Pipe being installed

STANDARD MANHOLE RINGS

DN900 - 4000

Tracey Concrete manufactures a wide range of Manhole Rings in accordance with BS EN 1917, BS 5911-3, BS 5911-4. Manhole Rings are BSI Kitemarked.

MANHOLE RINGS / DN900 - 4000

Internal Dia	Depths				Wall Thickness	Overall Dia	Circum	Approx Weight/m	Type of Joint	Lifting Hole	Step Heights
mm	250mm	500mm	750mm	1000mm	mm	mm	mm	KG	-	-	-
900	✓	✓	✓	✓	70	1040	3050	520	Rebate	3 x 50mm	250mm
1050	✓	✓	✓	✓	85	1220	3550	700	Rebate	3 x 50mm	250mm
1200	✓	✓	✓	✓	100	1400	4050	1050	T&G	3 x 50mm	250mm
1350	✓	✓	✓	✓	100	1550	4550	1100	T&G	3 x 50mm	250mm
1500	-	✓	✓	✓	115	1730	5030	1300	T&G	3 x 50mm	250mm
1800	-	✓	✓	✓	125	2050	6050	1800	T&G	3 x 50mm	250mm
2100	-	✓	✓	✓	140	2380	7050	2400	T&G	3 x 50mm	250mm
2400	-	✓	✓	✓	150	2700	8050	2900	T&G	3 x 50mm	250mm
2700	-	✓	✓	✓	150	3000	9050	3300	T&G	3 x 50mm	250mm
3000	-	✓	✓	✓	180	3360	10000	4500	T&G	4 x 50mm	250mm
3600	-	✓	✓	✓	200	4000	11950	6000	T&G	4 x 50mm	250mm
*4000	-	✓	✓	✓	200	4400	13200	6600	T&G	3 x RD24	250mm



OPTIONS AVAILABLE

- Pre-fitted double steps/ladder steps
- Sealant strip in various sizes
- Base cast in option
- Cored holes in various sizes

* DN4000 manhole ring is manufactured in two halves

* DN3600 & DN4000 are outside the scope of the British Standard
(Non-Kitemark but comply with all relevant provisions of the European Standard)
All manhole rings are manufactured to $\pm 25\text{mm}$ tolerance

STANDARD COVER SLABS DN900 - 4000

Tracey Concrete manufactures a wide range of Cover Slabs in accordance with BS EN 1917, BS 5911-3. DN3600 & 4000 Cover Slabs are generally designed in accordance with BS EN 1992-1-1.

COVER SLABS / DN900 - 4000

To Suit Internal Dia	Overall Dia	Effective Depth	Approx Weight	Standard Openings Available We Stock							
mm	mm	mm	KG	600 RD	675 SQ	600 SQ	750 SQ	1200 x 675	750 x 600	2No 675 SQ	2No 600 SQ
900	1275	150	310	-	E	E	-	-	-	-	-
1050	1280	160	335	E	E	E	C*	-	E	-	-
1200	1465	160	495	E	E	E/C	C	-	E	-	-
1350	1630	160	650	E	E	E	C	E	E	-	-
1500	1765	160	800	E	E	E/C	E	E	E	-	-
1800	2050	200	1425	E	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock
2100	2375	200	1990	E	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock
2400	2780	225	3160	E	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock
2700	3005	225	3735	E	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock
3000	3400	300	6470	E	E	E	E	E	E	12'O Clock & 6'O Clock	12'O Clock & 6'O Clock
3600	4000	300	9085	E	E	E	E	E	E	-	-
**4000	4500	300	11590	E	E	E	E	E	E	-	-

Bespoke openings can be manufactured on request (including double openings)

C = Central Opening E = Eccentric Opening



OPTIONS AVAILABLE

- Special slabs & opening sizes on request
- Full drawing designs and calculations provided
- Reducing Slabs and landing slabs available
- Davitt sockets available on request

Larger and bespoke slabs DN2100 - 4000 are manufactured hexagonal

*DN1050 Cover Slabs are available in 1465 overall Dia

**4000 slabs are manufactured in 2 pieces

ALL PIPE TYPES - CAST IN

Using our Perfect Base system of casting collars to suit the pipe type specified on the project results in a much more efficient install. No 3rd party adaptors are required and ground-workers can be assured of a sealed joint. We can install any collar to suit such as concrete, twin-wall, PVC, sewer, clay & cast iron.



Tracey Concrete can supply both:
SN8 - Pipe for foul & SN4 - Pipe for storm

See below some of the sample images during installation on-site exhibiting the wide range of pipes spec we have supplied with our Perfect Base System.

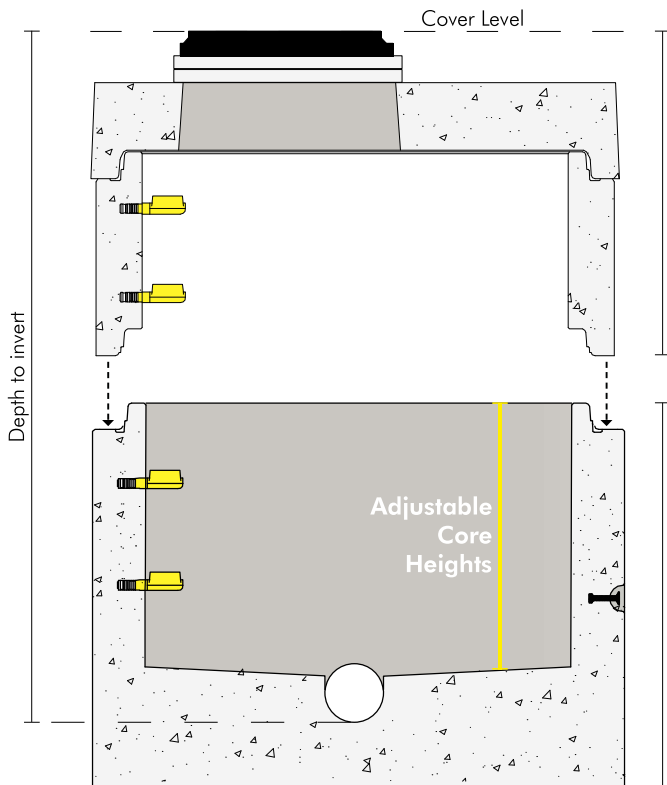
- Any Pipe type cast in
- The exact seal from the manufacturer
- No wasted time with make shift adaptors
- Exact pipe as used on-site
- Pipeline fall built into base at inlet & outlet
- Multiple pipe types per base



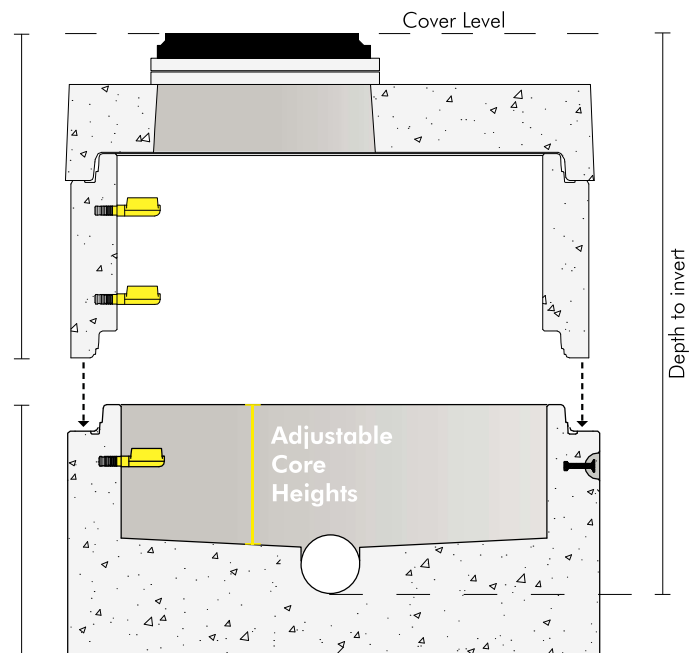
ADJUSTABLE BASE HEIGHTS

Tracey Concrete can adjust the core height of each base to ensure cover level is met easily on-site.

During the drainage take off our engineers will adjust the core height in intervals of **50mm** to suit each individual manhole chamber therefore no cutting of rings onsite is required.



Same Perfect Base™ - Different core heights



The example above shows 2 chambers with different depths to invert level by adjusting the core height, the cover level is met in each base.

Tracey Concrete engineers design each individual manhole chamber to reach the desired cover level.

This is a great advantage over traditional systems as no cutting of manhole chambers is required on-site.

This off site solution is safer as there is no cutting and no exposure to silica dust. In certain shallow manhole chambers, the perfect base can be designed and manufactured without need for a manhole ring.

