



Queensland

Product Guide

Stormwater

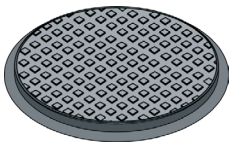
| August 2024 Version |

CIVILMART

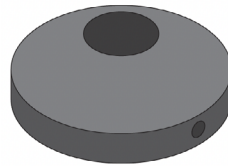




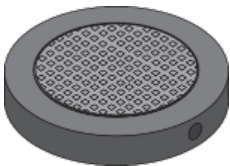
STORMWATER CHAMBERS



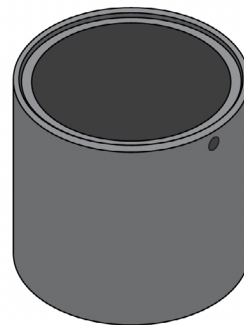
Cover



Aspro



Upstand



Chamber





STORMWATER CHAMBERS



Stormwater Chambers

- Rebated chambers to suit all stormwater applications
- Chamber Precast Bases to suit
- Rebated aspro to suit Chambers
- All sizes 1050 to 2400 Diameter
- Custom RPEQ certified chambers also available

I.D (mm)	Height							
	300	450	600	750	900	1200	1500	1800
1050	✓	✓	✓	✓	✓	✓		
1200	✓	✓	✓		✓	✓		
1500	✓	✓	✓	✓	✓	✓	✓	
1800	✓		✓		✓	✓	✓	✓
2100	✓		✓		✓	✓	✓	✓
2400	✓		✓		✓	✓	✓	✓



STORMWATER ASPROS



Stormwater Aspros

- Stormwater Aspros designed and manufactured to Council Specifications.
- Aspros cast with a 600mm hole for access to chamber below
- Manufactured to suit 1050 - 2400 internal diameter chambers. Custom RPEQ certified aspros also available.

I.D (mm)	300	450	600
Brisbane City Council & Gold Coast City Council			
1050	1370	150	600
1200	1650	150	600
1350	1830	150	600
1500	1970	175	600
1650	2100	225	600
1800	2300	250	600
2100	2600	250	600
IPWEAQ			
1050	1370	175	600
1200	1650	175	600
1350	1830	200	600
1500	1970	225	600
1800	2300	250	600
2100	2600	250	600
2400	3000	250	600



STORMWATER ASPROS

Elongated Aspros



Elongated Aspros

- Elongated stormwater Aspros designed and manufactured to Council Specifications
- Manufactured to suit 1050 - 1500 internal diameter chambers
- Aspros cast with circular or non-circular openings
- Custom RPEQ certified elongated aspros available

I.D (mm)	O.D (mm)	Ext (mm)			Thickness	Hole (mm)
		300	600	900		
Brisbane City Council & Gold Coast City Council						
1500	1970	✓	✓	✓	175	600
IPWEAQ						
1050	1370	✓	✓	✓	175	600
1200	1650	✓	✓	✓	175	600
1500	1970	✓	✓	✓	225	600



STORMWATER ASPROS

Non-Circular Opening Aspros



Non-Circular Opening Aspros

- Non-circular opening Stormwater Aspros designed and manufactured to Council Specifications
- Aspros cast with various open size hole
- Designed for roof water drainage, with hole sizes 600x600, 900x600, 900x900 and 930x835
- Manufactured to suit 1050 - 1500 internal diameter chambers
- Custom RPEQ certified sizes available

I.D (mm)	O.D (mm)	Thickness (mm)	Hole (mm)			
			600 x 600	900 x 600	930 x 835	900 x 900
Brisbane City Council & Gold Coast City Council & Pines River Area						
1050	1370	150	✓	✓		
1200	1650	150	✓	✓	✓	✓
1500	1970	175	✓	✓	✓	✓
IPWEAQ						
1050	1370	175	✓	✓	✓	
1200	1525	175	✓	✓	✓	✓
1200	1650	175	✓	✓	✓	✓
1500	1970	200	✓	✓	✓	✓



STORMWATER ASPROS

Custom Aspros

Custom Aspro

- Custom RPEQ certified Stormwater Aspros on request
- To suit any applications





PRECAST UPSTANDS



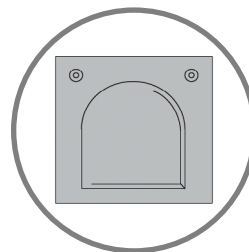
Precast Upstand

- Upstands designed and manufactured to local council specifications
- AS 3996 2019 Class B and Class D available
- Easy to install to complete site works with no in-situ concrete required

Description	Diameter (mm)	Class	
		B	D
Brisbane City Council			
Stormwater Concrete Infill Upstand	600	✓	
Stormwater Solid Top Upstand	600	✓	✓
Non Brisbane City Council			
Stormwater Solid Top Upstand	600	✓	✓



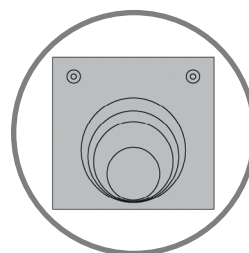
PRECAST KNOCKOUT PITS & RISERS



Arches

Knockout Pits

- Knockout available as arches, circular
- Rated to Class D



Circular

Width (mm)	Length (mm)	Pit Height (mm)					Riser Height (mm)				
		450	600	900	1200	1500	150	300	450	600	900
450	450	✓					✓	✓	✓	✓	
600	600		✓	✓			✓	✓	✓	✓	
900	600		✓	✓			✓	✓	✓	✓	
900	900			✓			✓	✓		✓	✓
1000	600			Made to order					Made to order		
1000	1000			Made to order					Made to order		
1200	1200				✓						
1500	1000			Made to order					Made to order		
1500	1500					✓					



Need a custom job?

Civilmart is uniquely positioned amongst precast concrete suppliers in that we are experts in designing and manufacturing custom precast products. If non-standard specifications are involved in a project, we will do what it takes to make it a reality. We have extensive custom-manufacturing capabilities and if necessary, we will build new moulds to create exactly what you need. Our agility and flexibility when creating products is unmatched, it's something we're extremely proud of.

Submit your plans or let us work with you to design a product that will perfectly fit your next project. Whether it's a small variation to a standard product or a completely new idea built from scratch, Civilmart will help you get it done.



GALVANISED GRATES, DUCTILE COVERS & FRAMES

Load Classification

Load classifications.

As per AS 3996 2019

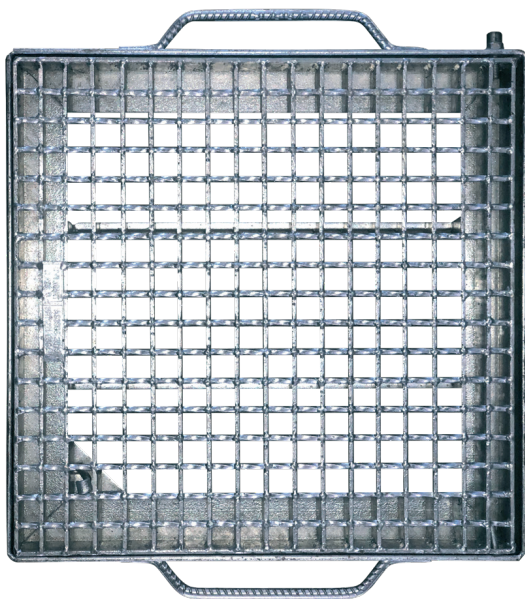
Class	Application	Nominal Weight Loading (kg)	Serviceability Design Load (kN)	Ultimate Limit Loading (kN)
A	Areas accessible strictly by pedestrians. Not suited to vehicles. Purpose-residential backyards. Walkways not accessible by vehicles.	330	6.7	10
B	Private and shared residential property. Suitable for vehicles accessing driveways and footways. Low speed only. Purpose-residential driveways. Unit sites. Parklands. Residential car parks.	2670	53	80
C	Residential roads and car parks trafficable to vehicles. Purpose-areas with slow moving traffic and minor roads.	5000	100	150
D	Major roads including freeway and motorway shoulders. Warehouses and loading docks. Purpose-major roads.	8000	160	240
E	Freeway and motorway carriageways. Suitable for all heavy vehicles. Purpose-freeways and motorways.	13700	267	400
F	Docks, wharfs and airport service and taxiways. Purpose-heavy and high traffic volumes.	20000	400	600
G	Docks, wharfs and airport runways. Purpose-heavy and high traffic volumes.	30000	600	900

- Nominal wheel loads are given for guidance only. Consideration should be given to the type, size and pneumatic pressure of the load applied.
- Class B design loads exceed AS 5100.2 requirements for footway loading.
- Class D design loads exceed AS 5100.2 requirements for a W80 wheel load.
- Class C units are based on an intermediate load.
- The ultimate limit state load is 3 times the nominal wheel load and 1.5 times the serviceability load.



GALVANISED GRATES

Sump Grates



Galvanised Grates

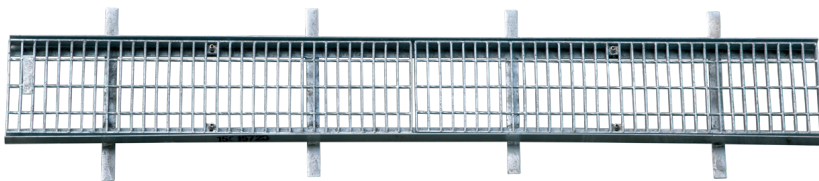
- Galvanized Mild Steel grates manufactured to AS3996 load standards
- Class B and D available
- Also available in non-slip heelgaurd
- Grates are fully hinged to frame for easy opening for maintenance
- Grates fitted with lockdown bolt for security once shut

Clear Opening (mm)	Type (mm)					
	Grate & Frame	Vee 3%	Vee 10%	Vee 35%	B	D
300 x 300	✓				✓	
450 x 450	✓				✓	✓
600 x 600	✓				✓	✓
600 x 600		✓			✓	✓
600 x 900	✓				✓	✓
600 x 900		✓			✓	✓
900 x 900	✓				✓	✓
1200 x 1200	✓					✓

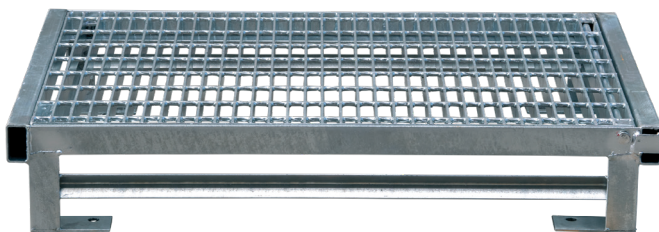


GALVANISED GRATES

Trench & Surcharge Grates



Clear Opening (mm)	Class (mm)	
	B	D
150 x 1000	✓	✓
200 x 1000	✓	✓
250 x 1000	✓	✓
300 x 1000	✓	✓



Clear Opening (mm)
600 x 600
600 x 900
900 x 900
1200 x 900
1200 x 1200

Trench Grates

- Galvanised Mild Steel trench grates made to AS39962019 load standards available in Class B and D
- Trench Grate Frame manufactured in two meter lengths, with two one meter grates in the frame for easy lifting and maintenance
- Trench grate system fitted with lock down bolts for added security
- Custom sizes available on request

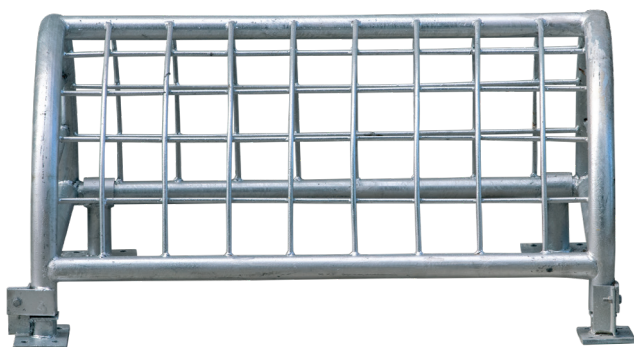
Surcharge Pit Grates

- Galvanised Mild Steel Surcharge grates available to larger pit size openings from 600x600 to 1200x1200
- Galvanised legs with pre drilled bolt holes for fastening to top slab
- Manufactured with a hinge and lockdown bolts for easy maintenance and security
- Suit all applications including subdivisions, bio basins and large volume surcharge areas
- Custom sizes available on request



GALVANISED GRATES

Dome & Alternative Surcharge Pit Grates



Dome Grates

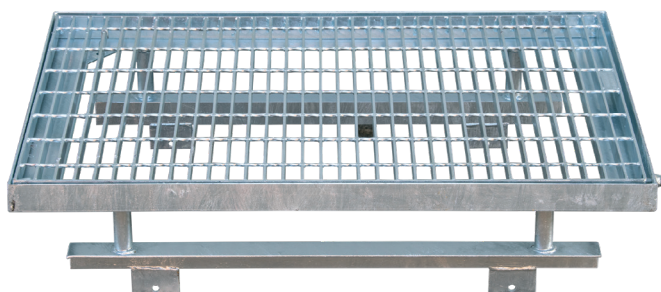
- Galvanised Mild Steel dome grates designed and manufactured to council specifications
- Ideal for sub-divisional surcharge pits, bio-basin overflow pits, where high capacity intake is required
- Hinged and lockable design for maintenance and security

Clear Opening (mm)

600 x 600

600 x 900

900 x 900



Alternative Surcharge Pit Grates

- Galvanised Mild Steel Alternative Surcharge grates are designed and manufactured for a much simpler installation
- Designed to bolt onto stormwater pit walls where a top slab is not available
- Designed to minimise any in-situ concrete works on-site
- Custom sizes available on request

Internal Pit Dimensions (mm)	Dimensions (mm)			
	A	B	C	D
600 x 600	750	750	725	725
600 x 900	750	1050	725	1025
900 x 900	1050	1050	1025	1025



GALVANISED GRATES

IPWEAQ/BCC Field Inlet & Self Supporting Pit Grates



IPWEAQ/BBC Field Inlet Grates

- Based on drawings D-0050 & BSD 8091
- Type 1: Grate & Frame + Legs
- Type 2: Grate & Frame
- Manufactured to Council designs and specifications
- Made to class B, AS 3996 2019

Clear Opening (mm)	Type	
	Type 1	Type 2
600 x 600	✓	✓
600 x 900	✓	✓
900 x 900	✓	✓



Self Supporting Grates

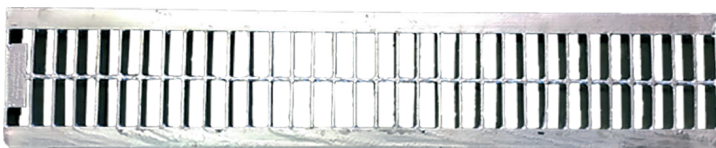
- Galvanised Mild Steel self supporting grates are designed to drop into pit rebate
- Fast installation designed to minimise in-situ works on-site
- Available off the shelf to suit Class A and B loadings

Clear Opening (mm)	Type	
	Type 1	Type 2
300 x 300	✓	
450 x 450	✓	✓
600 x 600	✓	✓
600 x 900	✓	✓
900 x 900	✓	✓



GALVANISED GRATES

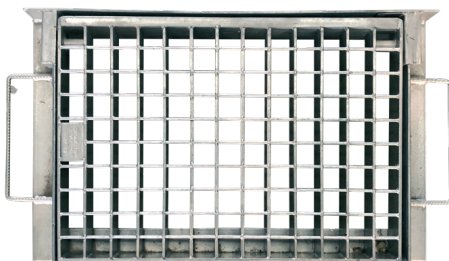
Box Trench & Road Gully Grates



Box Trench Grates

- Self supporting Galvanised Mild Steel trench grate, designed to drop into drainage channel rebate
- Trench grate designed to Class B loadings
- Frame-less design to ensure fast installation to minimise in-situ works on-site

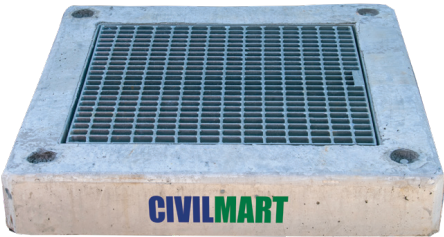
Pit Clear Opening (mm)	Class (mm)
	B
150	✓
200	✓
300	✓



Description	Clear Opening (mm)	Class (mm)	
		C	D
BCC Type A G&F	900 x 600		✓
AS Gully G&F	900 x 600		✓
AS Gully G&F (CCC)	800 x 450		✓
GCC Anti Ponding G&F	600 x 450		✓
Road Gully V50 G&F	900x900		✓
Road Gully V35 G&F	600 x 600, 600 x 900		✓
Road Gully V10 G&F	600 x 600, 900 x 600		✓
TMR Type 1 Gully G&F (Flat)	900 x 600	✓	
TMR Type 2 Gully G&F (G&F + Legs)	900 x 600	✓	
WG-5C Gully G&F	900 x 450	✓	
WG-20 Gully G&F (Offset V Grate)	900 x 600		✓

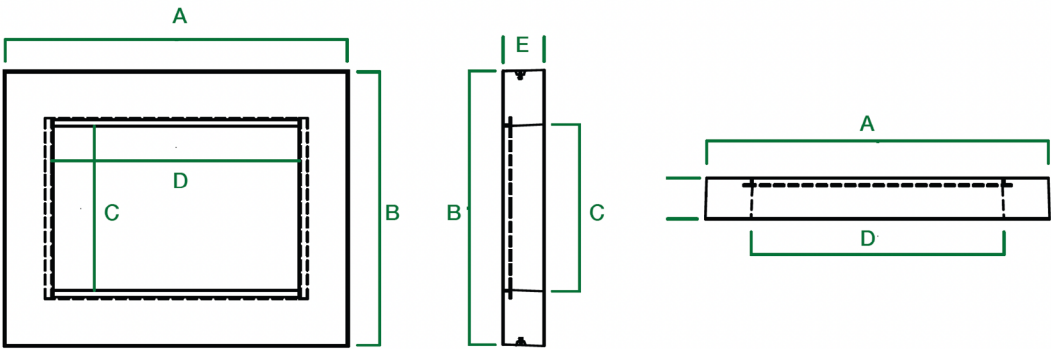


PRECAST SURROUND SUMP GRATES



Surround Sump Grates

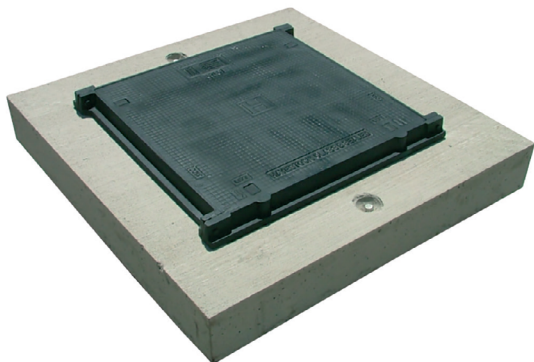
- Custom RPEQ certified concrete surrounds made for any application, RPEQ Certificate request
- IPWEAQ Grates in Surrounds
- V10 & 35 Grates in Surrounds



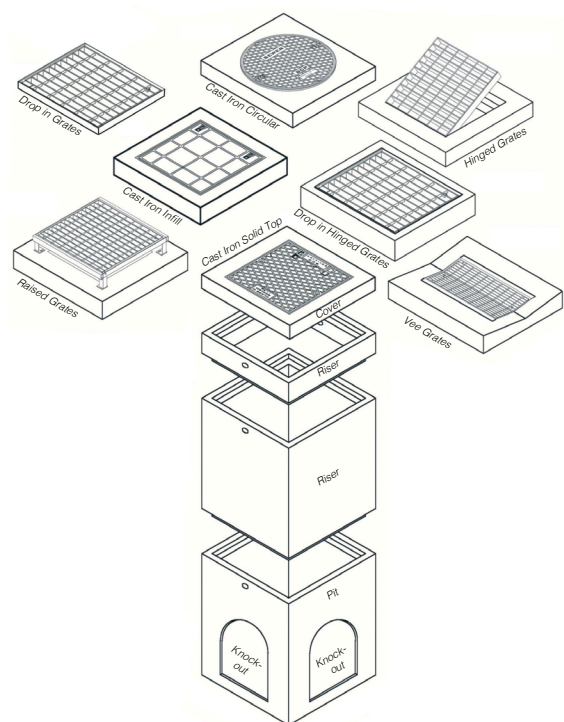
Grate Clear Opening (mm)			Dimensions (mm)				
	B	D	A	B	C	D	E
450 x 450	✓	✓	820	800	450	450	150
600 x 600	✓	✓	950	1000	620	620	150
600 x 600		✓	950	1000	600	600	150
*600 x 600	✓		950	1000	600	600	150
^600 x 600		✓	1000	1100	600	600	200
600 x 900	✓	✓	1250	1000	620	920	150
*600 x 900	✓		1250	1000	600	900	150
^600 x 900		✓	1350	1000	600	900	200
900 x 900	✓	✓	1250	1300	920	920	150
900 x 900		✓	1250	1300	900	920	150



SURROUNDS & COVERS



- Cast Iron Infill
- Cast Iron Solid
- Concrete Solid
- Custom roof slabs to suit your application
- Class B & D available, enquire for corresponding thickness'
- 450x450 to 1500x1500 encasements
- Multi-part encasements available on request
- Stainless & Brass edges and decorative edge covers are available upon request





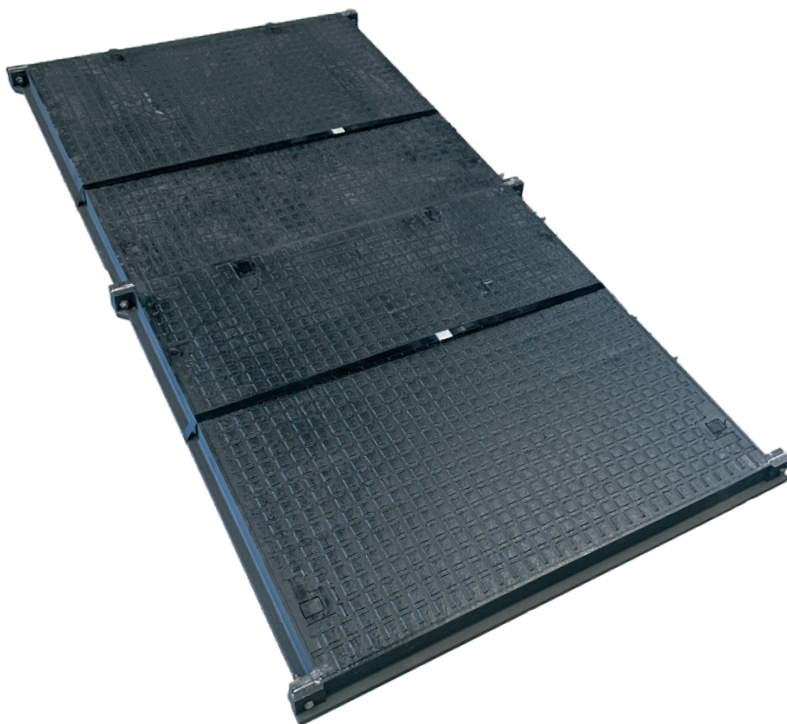
GALVANISED GRATES

Gas Tight Covers



Gas Tight Covers

- Ductile Iron Covers manufactured to AS 3996 2019, available in Class B and D
- Ductile iron covers available in both solid top and infill
- Up to Class G available upon request
- Ductile Iron Covers available in trench run configuration
- Brass & Stainless Edging available upon request



Clear Opening (mm)	Class (mm)	
	B	D
Infill		
450 x 450	✓	✓
600 x 600	✓	✓
600 x 900	✓	✓
900 x 900	✓	✓
1200 x 1200	✓	✓
Solid		
450 x 450	✓	✓
600 x 600	✓	✓
600 x 900	✓	✓
900 x 900	✓	✓
1200 x 1200	✓	✓



CAST IRON COVERS

Manhole Covers



Manhole Covers

- Cast iron cover and frames manufactured to council specifications
- Cast iron cover and frames approved for use in SE QLD
- Load Class to AS 3996 2019
- Supplied with cover and frame to suit in-situ installation on-site

Description	Type	
	B	D
BCC		
Concrete Fill Stormwater Unfilled	✓	
Concrete Fill Stormwater Filled	✓	
Solid Top Stormwater Cover & Frame	✓	✓
Solid Top Stormwater Bolted		✓
Non BCC		
Solid Top Stormwater Cover & Frame	✓	✓
Solid Top Stormwater Bolted	✓	✓



STEEL REINFORCED CONCRETE PIPE



Steel Reinforced Concrete Pipe

- Rubber Ring Joint Pipe
- Flush Joint Pipe
- 300mm - 2100mm diameter, 2.34m length
- AS-N25 4058:2007, available in
- Class 2, 3 & 4





FIBRE REINFORCED CONCRETE PIPE



Fibre Reinforced Concrete Pipe

- Available upon request
- 300mm - 750mm diameter, 4m length
- Class 2, 3 & 4



BOX CULVERTS



Small Box Culvert

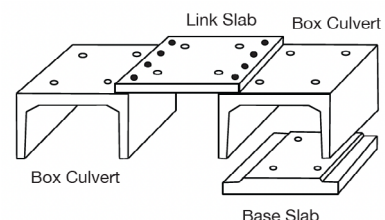
- Standard fill height is 0-2m
- Design and manufactured to AS1597.1
- Standard unit lengths are 1215mm and 2440mm
- Link Slabs and Base Slabs are available



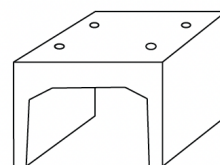
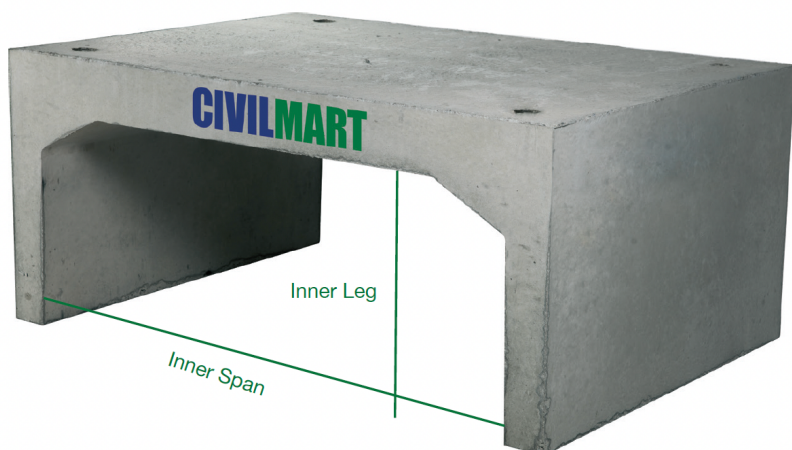
Large Box Culvert

- Standard fill height is 0-2m, greater fill heights are available upon request
- Design to AS1597.2, RMS or TMR Specifications
- Standard unit lengths are 1215mm and 2440mm
- Link slabs are available to reduce cost on multi-cell structures
- Base slabs are available to reduce onsite works
- Large link slabs and base slabs available as full width (2440mm long) or half width (1215mm long)
- All Large culverts are made to order
- Custom culverts - splay blockout endwall units available upon request
- Standard sizes 1500 - 4200mm span

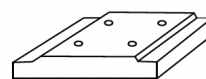
Installation Examples



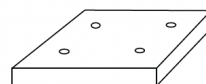
BOX CULVERTS



Box Culvert



Base Slab



Link Slab

Inner Span (mm)	Inner Leg (mm)															
	225	300	375	450	600	750	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
300	✓	Made to order														
450	✓	✓														
600	✓	✓		✓												
750		✓		✓												
900		✓		✓	✓											
1200		✓		✓	✓		✓	✓								
1500								Made to order								
1800								Made to order								
2100								Made to order								
2400								Made to order								
2700								Made to order								
3000								Made to order								
3300								Made to order								
3600								Made to order								
4200								Made to order								



HEADWALLS

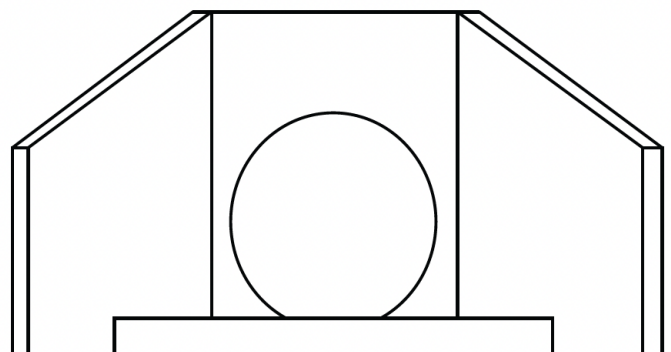
To suit Pipe

Pipe Headwalls

- Manufactured to suit all ranges of pipe from PVC to Concrete
- Custom RPEQ certified headwalls available on request

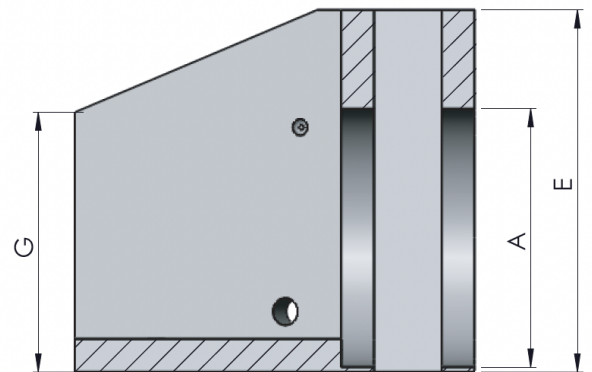
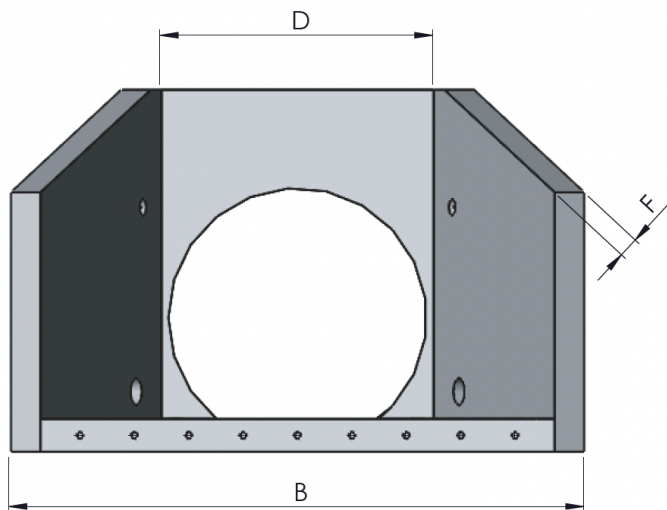


Nominal Pipe Size	C/O
Light Duty (Full Apron) Headwalls	
300	450
375	530
450	600
Heavy Duty (Full Apron) Headwalls	
225	290
300	450
375	530
450	600
525	720
600	770
675	900
750	920
825	1100
900	1100
1050	1330
1200	1500
1350	1650





Q-SEALS HEADWALLS (TMR APPROVED)



Inner Span (mm)	Inner Leg (mm)							Weight (kg)
	A	B	C	D	E	F	G	
375	500	1490	1000	790	840	110	420	800
450	580	1490	1000	790	840	110	420	780
525	660	2120	1460	1100	1130	130	950	1810
600	752	2120	1460	1100	1130	130	960	1810
675	850	2120	1460	1100	1330	130	960	1700
750	930	2120	1460	1100	1330	130	960	1930
825	1100	2670	1790	1400	1570	130	850	1940
900	1100	2670	1790	1400	1570	130	850	1940
1050	1240	2670	1790	1400	1570	150	850	3120
1200	1500	3690	1800	1800	1900	150	1063	2660

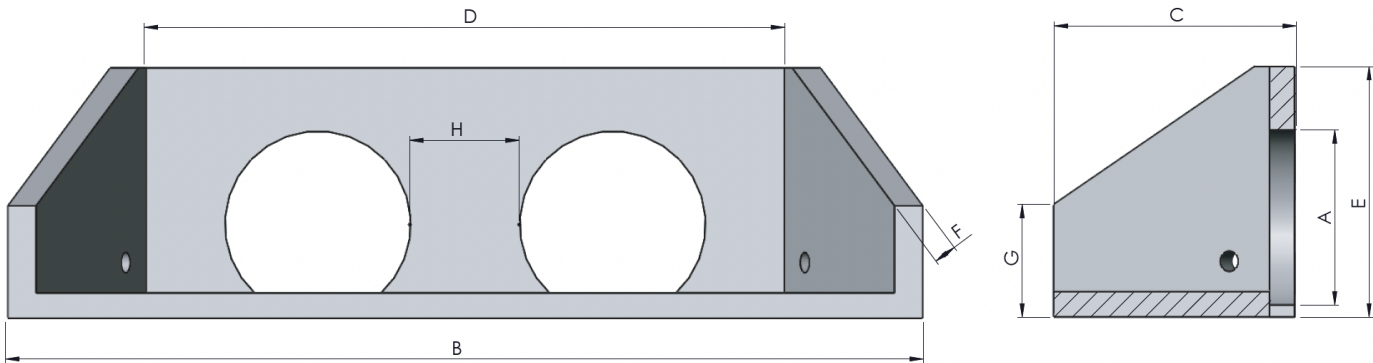


MULTI HEAD WALLS

To suit Pipe

Twin Cell Headwalls

- Multi Cell headwalls available from twin cell to custom RPEQ certified cell arrangement



Nominal Pipe Size (mm)	Clear Opening (mm)	B	C	D	E	F	G	H
300	450	2350	660	1810	700	100	300	300
375	530	2350	660	1810	915	100	510	300
450	600	2350	660	1810	915	100	510	300
525	720	2350	660	1810	915	100	510	300
600	770	2350	660	1810	915	100	510	300
675	900	4530	1145	3160	1285	125	430	600
750	920	4530	1145	3160	1330	125	475	600
825	1100	4530	1145	3160	1430	125	575	600
900	1100	4530	1145	3160	1705	125	590	600
1050	1330	4530	1145	3160	1705	125	850	600



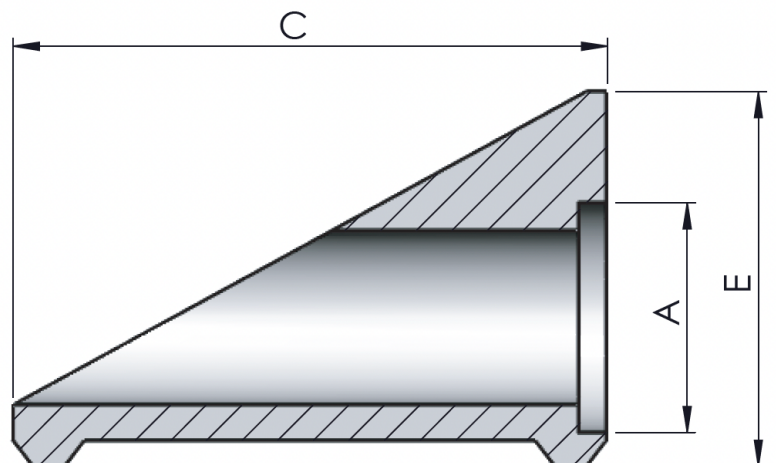
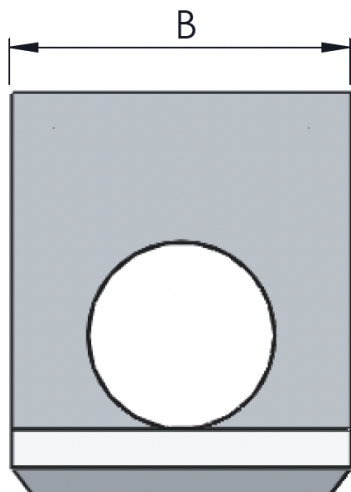
SLOPPING HEADWALLS



Sloping Headwalls

- Precast Sloping headwalls to suit RCP pipes from 300mm to 600mm
- Designed and manufactured to local council requirements

Nominal Pipe Size	Dimensions (Approx.)					Weight (kg)
	A	B	C	D	E	
300	1220	415	650	650	270	580
375	1220	480	650	650	160	520
450	1500	570	880	800	350	1020
525	1500	650	880	800	220	900
600	1500	720	880	800	210	788





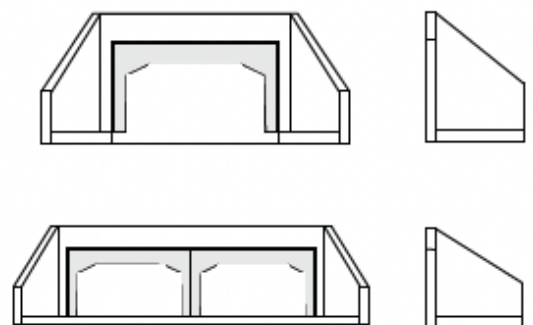
HEADWALLS

To suit Box Culverts



Box Culvert Headwalls

- Box Culvert headwalls to suit an extensive range of sizes.
- Designed and manufactured to TMR and Australian Standards
- Multi Cell Headwalls available on request
- Majority of RCBC Headwalls are made to order.
- Options to suit precast and insitu base slabs
- Headwall dimensions and availability to be confirmed on order placement.





HEADWALLS

To suit Box Culverts span sizes

Nominal Internal Box Culvert Size	Inner Leg (mm)						
	A	B	C	D	E	F	G
300 x 225	600 x 415	1460	640	690	790	90	390
375 x 225	675 x 415	1460	640	690	790	90	390
375 x 300	675 x 500	1460	640	690	790	90	390
450 x 225	750 x 415	1790	970	690	1000	105	620
450 x 300	750 x 500	1790	970	1000	1000	105	620
450 x 375	750 x 565	1790	970	1000	1000	105	620
450 x 450	750 x 640	1790	970	1000	1000	105	620
600 x 150	900 x 340	1790	970	1000	1200	105	800
600 x 225	900 x 415	1790	970	1000	1200	105	800
600 x 300	900 x 500	1790	970	1000	1200	105	800
600 x 375	900 x 565	1790	970	1000	1200	105	800
600 x 450	900 x 640	1790	970	1000	1200	105	800
750 x 225	1050 x 415	2350	660	1810	700	100	300
750 x 300	1050 x 500	2350	660	1810	915	100	510
750 x 375	1050 x 565	2350	660	1810	915	100	510
750 x 450	1050 x 640	2350	660	1810	915	100	510
750 x 600	1050 x 800	2760	1375	1570	1100	115	330
900 x 225	1200 x 415	2350	660	1810	700	100	300
900 x 300	1200 x 500	2350	660	1810	915	100	510
900 x 375	1200 x 565	2350	660	1810	915	100	510
1500 x 300	1800 x 500	2350	660	1810	915	100	510
1500 x 375	1800 x 575	2350	660	1810	915	100	510
1500 x 450	1800 x 640	2350	660	1810	915	100	510
1500 x 600	1800 x 800	4530	1195	3160	1300	125	245
1500 x 750	1800 x 940	4530	1195	3160	1500	125	385
1500 x 900	1800 x 1100	4530	1195	3160	1700	125	545
1800 x 600	2100 x 800	4530	1195	3160	1300	125	245
1800 x 750	2100 x 940	4530	1195	3160	1500	125	385
2100 x 600	2100 x 1100	4530	1195	3160	1700	125	545
2100 x 600	2400 x 800	4530	1195	3160	1300	125	245
2100 x 750	2400 x 800	4530	1195	3160	1500	125	385
2100 x 900	2400 x 1100	4530	1195	3160	1700	125	545
2400 x 600	2700 x 800	4530	1195	3160	1300	125	245
2400 x 900	2700 x 1100	4530	1195	3160	1700	125	545



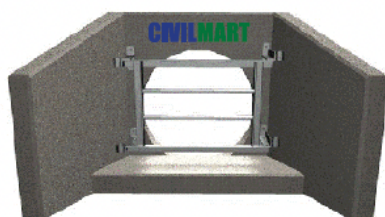
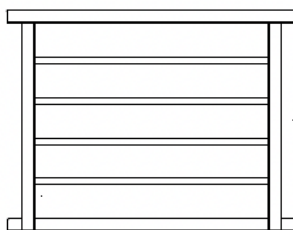
HEADWALLS

Subsoil



Subsoil Headwalls

- Subsoil Headwall Clean Out c/w Screw Cap
- Subsoil Headwall c/w Outlet Flap



Headwall Trash Screen

- Designed to stop entry at susceptible pipe inlets/outs
- Simple and easy to install in green-fields or retro fit solutions
- Strong hot dipped galvanised mild steel finish for long life
- Designed to fit most precast headwalls
- Can be easily padlocked
- Available in a range of common sizes
- Larger sizes available made to order
- Powder coating available upon request
- Available with Quick Release Handle to local council specifications



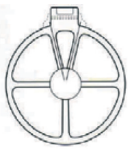
HEADWALLS

Pipe Floodgates



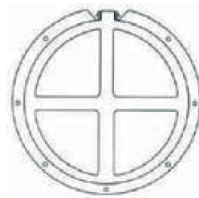
Floodgate with Mounting Ring

The mounting is a sleeve that fits over the end of the pipe and is attached by epoxy adhesive.



Bolt-On Floodgate (over 900mm)

The mounting is a sleeve that fits over the end of the pipe and is attached by epoxy adhesive.



Pipe Floodgates

All floodgates are made to order, please allow for manufacturing times.

Flush Mount Floodgate

The flush mount or headwall mount floodgate is suitable for mounting on a vertical wall, such as a headwall structure. The gate is hinged to a flanged mounting ring with bolt holes around the circumference.

NB (mm)	RC/VC Pipe			PVC Pipe			DI Pipe			FRC Pipe		
	A	B	C	A	B	C	A	B	C	A	B	C
100	150	160	30	120	130	30	-	-	-	135	160	30
150	200	210	30	165	195	30	-	-	-	195	210	30
200	-	-	-	230	250	30	-	-	-	-	-	-
225	280	300	40	255	275	40	270	275	30	280	300	45
250	-	-	-	290	305	40	-	-	-	-	-	-
300	370	390	50	325	355	40	350	390	50	370	390	50
375	450	475	50	410	440	50	440	475	50	440	475	50
450	540	560	50	510	525	50	520	560	50	540	560	50
525	625	650	50	-	-	-	600	650	50	625	650	50
600	710	730	50	-	-	-	680	730	50	710	730	50
675	790	815	50	-	-	-	760	816	50	775	815	50
750	875	905	50	-	-	-	840	905	50	855	905	50
825	955	985	50	-	-	-	920	985	50	-	-	-
900	103	1065	55	-	-	-	1000	1064	55	-	-	-

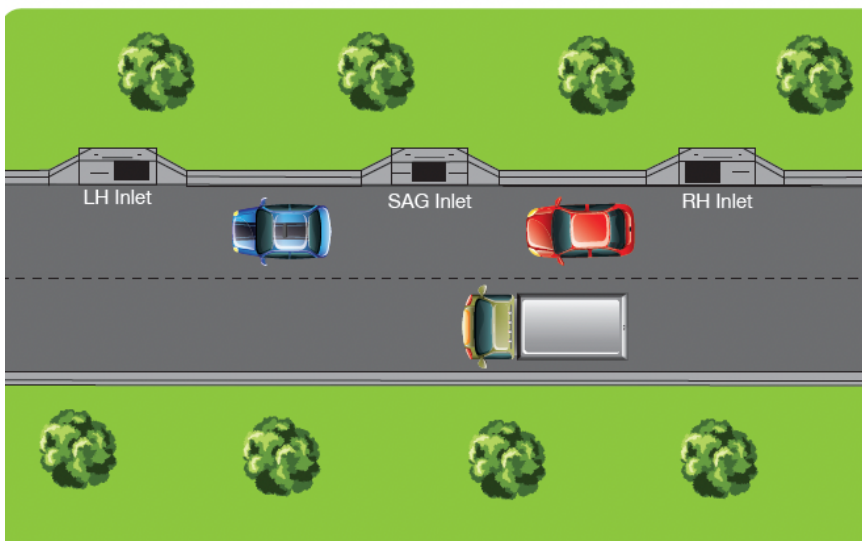


KERB ENTRY & ROAD GULLY UNITS



Kerb Entry & Road Gully Units

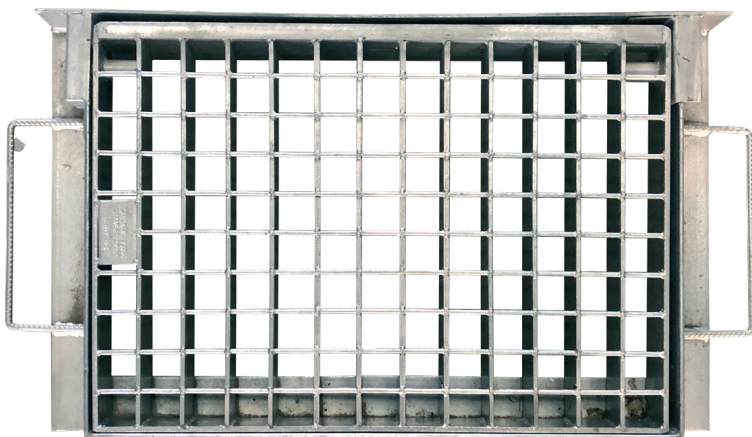
- Available for TMR & council applications
- SAG Unit Centre
- RH unit Flow coming from right hand side facing kerb from roadway
- LH unit flow coming from left hand side facing kerb from roadway



Length (m)				LIP IN LINE Recessed	KERB IN LINE Protruded
	225	300	375	450	600
1.2			✓	✓	
2.4	✓	✓	✓	✓	✓
3.6	✓	✓	✓	✓	✓
4.8	✓	✓	✓	✓	✓



LINTEL & GRATE COMBINATION



Lintel & Grate Combination

- Meet specifications for:
 - » Gold Coast City Council
 - » Brisbane City Council
 - » Logan City Council
 - » IPWEAQ

Description	Type
1.2m Lintel - Creek	Type VS
2.4m Lintel - Creek*	Type S
3.6m Lintel - Creek*	Type M
4.8m Lintel - Creek	Type L

* BCC Type A Grate & Frame 900 x 600 clear opening available to suit

Backstones

Description	Suits
1.22m Backstone	Local Council
2.1m Backstone	Caboolture & Ipswich Council
2.13m Backstone	Local Council
3.0m Backstone	Ballina Shire Council
3.2m Backstone	Local Council

Type F Road Gully Units

Size (m)
1.2
2.4
3.6



DRAINWAY SYSTEMS AND KEYSINS

Drainway System

Description	QTY Chambers (C)	QTY Lintels (L)	QTY Troughs (T)	QTY Dowels	QTY Ends (E)
OTC (OTCSO)	1	1	0	2	2
1TC (1TCOT or OTC1T)	1	1	1	6	2
2TC (1TC1T or OTC2T)	1	1	2	10	2
3TC (1TC2T or 2TC1T OR 3TCOT)	1	1	3	14	2
4TC (2TC2T or 3TC1T OR 4TCOT)	1	1	4	18	2
2T2C (2T2COT or 1T2C1T)	2	2	2	14	2

Designed to fit on 1050 chambers

Drainway System

I.D (mm)	O.D (mm)	Hole (mm)
1200	1650	1000
1350	1830	1000
1500	1970	1000
1650	2100	1000
1800	2300	1000
2100	2600	1000

Patented System Keysin Unit

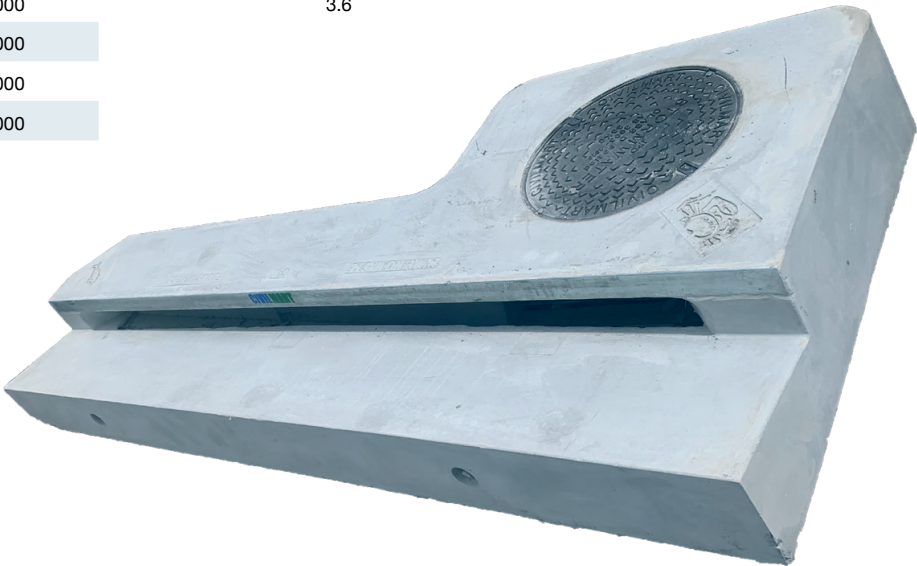
Size (m)
1.3
2.4
3.6

Componets

- Drainway Chamber ONLY (C)
- Drainway Lintel ONLY (L)
- Drainway Trough ONLY (T)
- Drainway Trough End (E)
- Dowel Pin ONLY

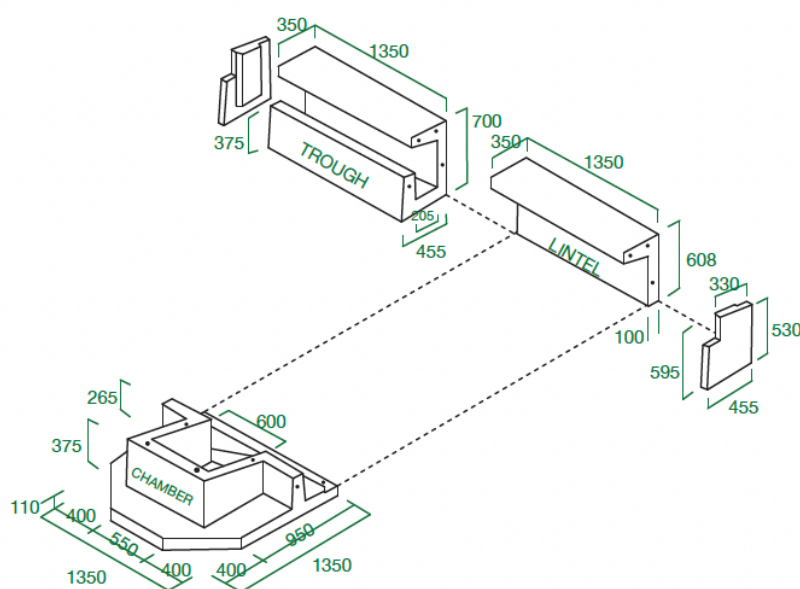
Grates & Frames

- Galvanised Grate & Frames





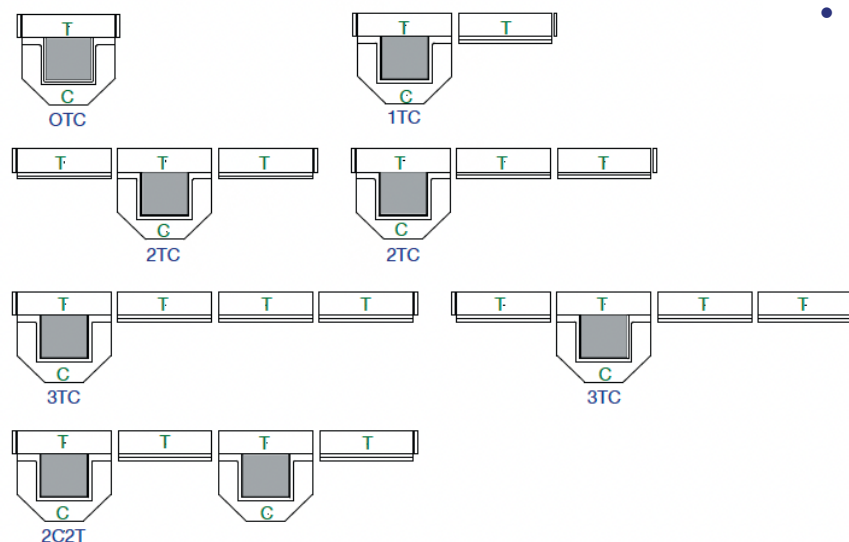
DRAINWAY SYSTEMS



Precast Drainway Components

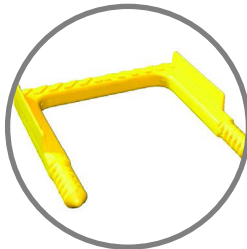
- Chamber
- Lintel
- Trough
- Trough Ends Dowel Pin ONLY

Common Configurations





ANCILLARY ITEMS



Step Irons

Description	Measurement
Step Iron Plastic Insert	
Step Iron Yellow Plastic Coated	225, 375 or 400mm



Plastic Chamber Ladders

Description	Measurement
Yellow with Brackets	3m / box



Sealants

Description	Measurement
Sealant Duracure B	20L
Sealant Silasec	4L
Sealant Butyl Mastic (Licorice)	17mm x 3.6m
Sealant Primer Butyl	1L
Sealant Denopol 60 Rockwrap	150mm x 10t



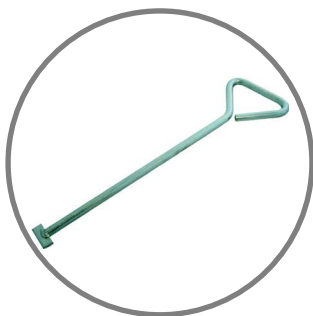
Megapoxy

Description
4lt
20lt



Tru Bolts

Description
M16 X 100, Grade 316S as per SEQ code
True Bolt sold with Anchor Bracket



Lifting Keys

Description
Lift Key Short Standard with Lever
Lift Key Long - Pressure
Lift Key Short - Pressure
Lift Key Short - Standard
Lift T bar - Top Hat
IPO key to suit 100 / 150 cover

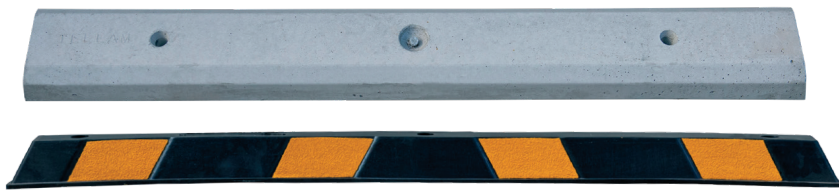


Lifting Keys

Description
1.3 tonne
2.5 tonne
5 tonne
10 tonne

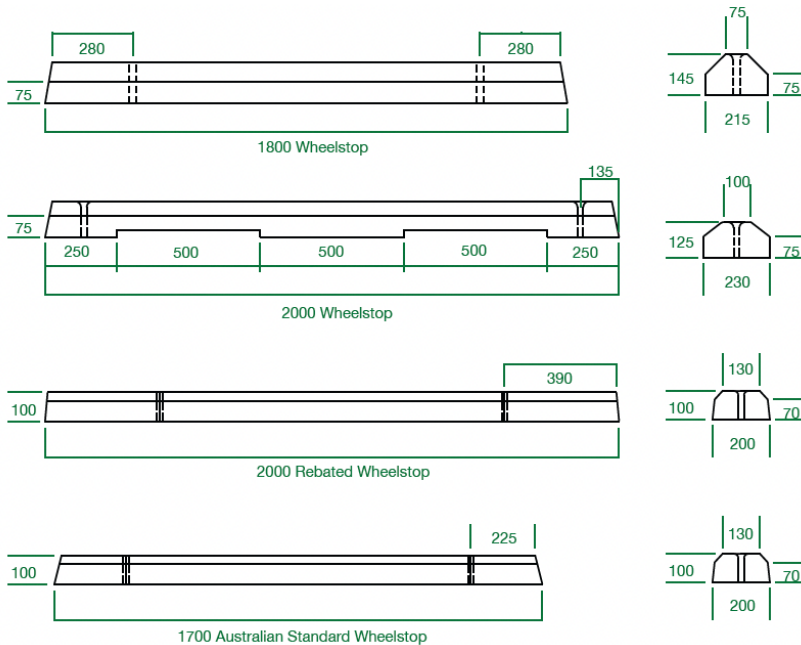


WHEELSTOPS



Wheelstops

- Car Barrier Spike Bolt 300mm x15mm available



Description	Length (mm)	Width (mm)	Height (mm)
Concrete Wheelstop	1800	215	145
Concrete Wheelstop	2000	200	100
Concrete Wheelstop Rebated	2000	215	125
Concrete Wheelstop Australian Standard	1700	200	100
Rubber Wheelstop Australian Standard	1650	160	100

The background of the top half of the image is a dark blue gradient. Overlaid on this is a faint, light blue image of a large semi-truck. In the center of the image is a white outline of the map of Australia. The word "CIVILMART" is written in large, bold, white capital letters across the middle of the map of Australia. Above the map, the word "CIVILMART" is written in a larger, semi-transparent font, and below it, the website "civilmart.com.au" is written in a smaller, semi-transparent font.

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