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Product Catalogue

BRITISH COLUMBIA



Heidelberg
Materials

ABOUT HEIDELBERG

In North America, Heidelberg Materials is a leading supplier of cement, aggregates, ready mixed concrete, and asphalt with more than 450 locations and approximately 9,000 employees. Over the years, the company has grown and acquired strategic assets to help provide a broader spectrum of products and possibilities to the markets we serve.

Heidelberg Materials – Pipe (formerly Inland and Ocean Pipe) has roots firmly planted in the Canadian Heavy Construction Industry and provides a variety of products. This catalogue highlights some of our key products but please contact our Sales team for further questions.

NOTES

- Prices effective January 1, 2026
- Applicable taxes and freight charges are extra
- Restocking fees are 15% for returned undamaged stock items. Cancelled/custom orders may be subject to 100% restocking charges
- Listed product weights are approximate and intended for shipping purposes. Exact weights can be calculated upon request
- Prices shown in Catalogue are intended as an estimating guide and are subject to change. Detailed quotations are available upon request
- Catalogue pricing does not include variable fuel, steel and carbon surcharges

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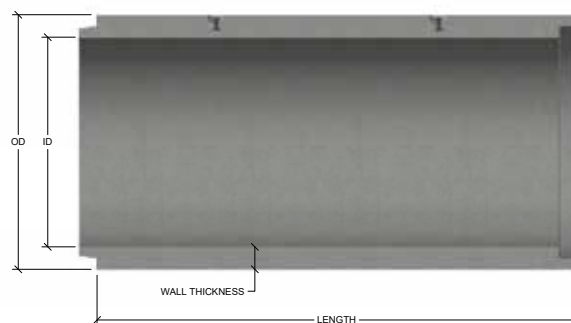
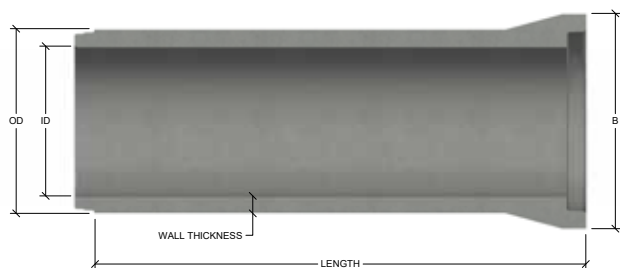


CONCRETE PIPE

ASTM C76/CSA A257.2

NOMINAL INSIDE DIAMETER		LENGTH (m)	WEIGHT (kg/m)	LIFT PINS	PRICE \$ PER METRE				ACTUAL PIPE DIMENSIONS (mm)			
(mm)	(in)				C76 CLIII	C76 CLIV	C76 CLV	GASKET PRICE	ID	OD	B	W
250	8"	1.22	137	NONE	-	-	-	-	254	326	428	36
300	12"	2.5	180	NONE	-	-	-	-	305	445	508	70
375	15"	2.5	235	NONE	-	-	-	-	381	495	606	57
450	18"	2.5	300	NONE	-	-	-	-	457	584	702	64
525	21"	2.5	380	NONE	-	-	-	-	533	673	803	70
600	24"	2.5	600	NONE	-	-	-	-	610	800	905	95
675	27"	2.5	710	NONE	-	-	-	-	686	889	1006	102
750	30"	2.5	830	NONE	-	-	-	-	762	978	1095	108
900	36"	2.5	1130	NONE	-	-	-	-	914	1156	1299	121
1050	42"	2.5	1400	(2x) 4T	-	-	-	-	1067	1334	1500	133
1200	48"	2.5	1700	(2x) 4T	-	-	-	-	1219	1511		146
1350	54"	2.5	1980	(2x) 4T	-	-	-	-	1372	1689		159
1500	60"	2.5	2350	(2x) 4T	-	-	-	-	1524	1867		171
1650	66"	2.5	2670	(2x) 8T	-	-	-	-	1677	2045		184
1800	72"	2.5	3130	(2x) 8T	-	-	-	-	1829	2223		197
1950	78"	2.5	3830	(2x) 8T	-	-	-	-	1981	2400		210
2100	84"	2.5	4130	(2x) 8T	-	-	-	-	2134	2578		222
2400	96"	2.5	5300	(2x) 8T	-	-	-	-	2438	2934		248
2700	108"	2.5	660	(2x) 8T	-	-	-	-	2743	3289		272
3000	120"	2.5	7300	(2x) 8T	-	-	-	-	3038	3607		279

- NOTES
1. Pricing on 1950, 2100, 2400, 2700 and 3000mm pipe is available, contact your local Sales Representative
 2. Tested pipe available at additional cost
 3. Gasket is standard self-lubricating gasket, nitrile gaskets available for additional cost
 4. C14 pipe pricing available between 250-900mm sizes, contact your local Sales Representative



MICROTUNNELING PIPE

ASCE 27

Microtunneling (MT) pipe is specifically designed to withstand the jacking forces encountered during trenchless installation while providing a watertight pipeline for municipal, industrial, and infrastructure applications.

Applications

- Stormwater Solutions
- Combined Sewer Relief
- Casing for Pipelines
- Crossings under highways, railways, airports, bodies of water, etc

Available Sizes

Microtunneling Pipe is available in a wide range of diameters and lengths to meet project-specific requirements. We can supply pipes from **900mm to 3600mm** in diameter.

Contact your local sales representative for current pricing, product availability, and project-specific quotations.

If you require technical assistance for an upcoming project or design, our engineering and technical team is available to provide support throughout the planning and specification process. Please contact our Technical Marketing Manager – Tannis.Karklin@heidelbergmaterials.com

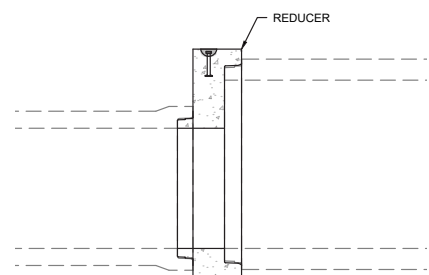
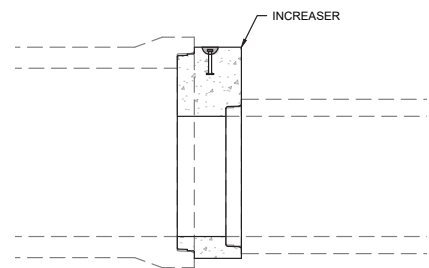
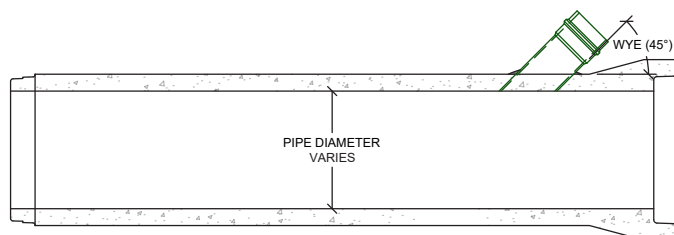


CONCRETE PIPE FITTINGS

PLUGS, CAPS & ADAPTORS

PIPE INSIDE DIAMETER	CAP/PLUG		ADAPTOR		PIPE PVC WYE/TEE	MANHOLE TEE
	WEIGHT (kg/ea.)	PRICE (\$/ea.)	WEIGHT (kg/ea.)	PRICE (\$/ea.)	PRICE (\$/ea.)	PRICE (\$/ea.)
100	-	-	-	-	-	-
150	-	-	-	-	-	-
200	-	-	-	-	-	-
250	28	-	28	-	-	-
300	37	-	37	-	-	-
375	55	-	55	-	-	-
450	81	-	81	-	-	-
525	108	-	108	-	-	-
600	152	-	152	-	-	-
675	188	-	188	-	-	-
750	274	-	274	-	-	-
900	386	-	386	-	-	-
1050	567	-	567	-	-	-
1200	744	-	744	-	-	-
1350	933	-	933	-	-	-
1500	1142	-	1142	-	-	-
1650	1414	-	1414	-	-	-
1800	1674	-	1674	-	-	-
2100	-	-	-	-	-	-
2400	-	-	-	-	-	-

- NOTES
1. Pricing available on 1950, 2100, 2400, 2700 and 3000mm product, contact you local Sales Representative for pricing
 2. Concrete WYE available, contact you local Sales Representative for pricing



CONCRETE PIPE FITTINGS

PIPE INSIDE DIAMETER (mm)	SINGLE MITRED BEND		DOUBLE MITRED BEND	
	WEIGHT (kg/ea.)	PRICE (\$/ea.)	WEIGHT (kg/ea.)	PRICE (\$/ea.)
250	150	-	-	-
300	504	-	-	-
375	648	-	708	-
450	820	-	890	-
525	1050	-	1160	-
600	1670	-	1850	-
675	1960	-	2160	-
750	2330	-	2610	-
900	3010	-	3340	-
1050	3990	-	4490	-
1200	4840	-	5410	-
1350	5580	-	6350	-
1500	6850	-	7920	-
1650	7710	-	880	-
1800	9110	-	10380	-
1950	-	-	-	-
2100	-	-	-	-
2400	-	-	-	-
2700	-	-	-	-
3000	-	-	-	-

NOTES 1. Contact your local Sales Representative for pricing on 1950, 2100, 2400, 2700 and 3000mm bends



Single Mitred Bend



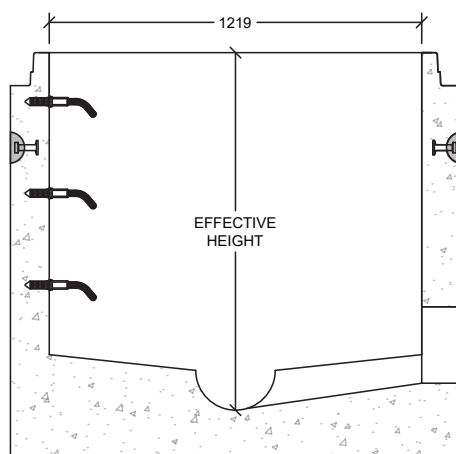
Double Mitred Bend

MANHOLE MATERIAL – PREBENCH

ASTM C478/CSA A257.4

LARGEST NOMINAL PIPE DIAMETER (mm)	EFFECTIVE HEIGHT (mm)	PRODUCT DESCRIPTION	WEIGHT (kg/ea)	PRICE IP Base	PRICE Ext Base
150	0.45	1050mm x 150mm Prebench	1645	-	-
200	0.6	1050mm x 200mm Prebench	1645	-	-
250	0.75	1050mm x 250mm Prebench	1645	-	-
300	0.75	1050mm x 300mm Prebench	1645	-	-
375	0.9	1050mm x 375mm Prebench	2244	-	-
450	0.9	1050mm x 450mm Prebench	2244	-	-
525	1.2	1050mm x 525mm Prebench	2573	-	-
150	0.45	1200mm x 150mm Prebench	2701	-	-
200	0.6	1200mm x 200mm Prebench	2497	-	-
250	0.75	1200mm x 250mm Prebench	3121	-	-
300	0.75	1200mm x 300mm Prebench	3121	-	-
375	0.9	1200mm x 375mm Prebench	2902	-	-
450	0.9	1200mm x 450mm Prebench	2902	-	-
525	1.2	1200mm x 525mm Prebench	4994	-	-
600	1.2	1200mm x 600mm Prebench	4994	-	-

NOTES 1. Prebench bases are custom order



STANDARD MANHOLE MATERIAL

ASTM C478/CSA A257.4

INSIDE DIAMETER (mm)	MH BARREL		MONO (IP) BASE		EXT BASE		LIDS	
	WEIGHT (kg/ea)	PRICE (\$/ea)	WEIGHT (kg/ea)	PRICE (\$/ea)	WEIGHT (kg/ea)	PRICE (\$/ea)	WEIGHT (kg/ea)	PRICE (\$/ea)
1050 Manhole Material								
1050 x 0.30m	329	-	659	-	912	-	435	-
1050 x 0.45m	494	-	823	-	1077	-		
1050 x 0.60m	658	-	987	-	1241	-		
1050 x 0.75m	823	-	1152	-	1406	-		
1050 x 0.90m	987	-	1316	-	1406	-		
1050 x 1.20m	1316	-	1645	-	1570	-		
1200 Manhole Material								
1200 x 0.30m	405	-	834	-	1120	-	770	-
1200 x 0.60m	810	-	1239	-	1525	-		
1200 x 0.90m	1215	-	1644	-	1930	-		
1200 x 1.20m	1620	-	2049	-	2335	-		

- NOTES
- 1. 1050mm & 1200mm product comes with (2x) 4T lifting pins
 - 2. 1050mm & 1200mm lids come with (3x) 4T pins



MANHOLE ESTIMATION TABLE

STANDARD 1050mm

MANHOLE
MATERIAL

DEPTH (m)	BASE	HEIGHT OF MANHOLE RISERS (m)						LID	GRADE RING	FRAME & COVER	AVG TOTAL PRICE
	1050 x 0.60m	1.22	0.9	0.75	0.6	0.45	0.3		(50mm)	TR18	
1.9	1				1		1	1	1	1	-
2.2	1			1		1		1	1	1	-
2.5	1		1		1			1	1	1	-
3.0	1	1		1				1	1	1	-
3.4	1	1	1				1	1	1	1	-
3.9	1	2				1		1	1	1	-
4.0	1	2			1			1	1	1	-
4.2	1	2		1				1	1	1	-
4.6	1	2	1				1	1	1	1	-
5.1	1	3				1		1	1	1	-
5.2	1	3			1			1	1	1	-
5.7	1	3		1			1	1	1	1	-
6.0	1	3	1			1		1	1	1	-
6.4	1	4			1			1	1	1	-
6.6	1	4		1				1	1	1	-
6.7	1	4	1					1	1	1	-
7.0	1	5						1	1	1	-

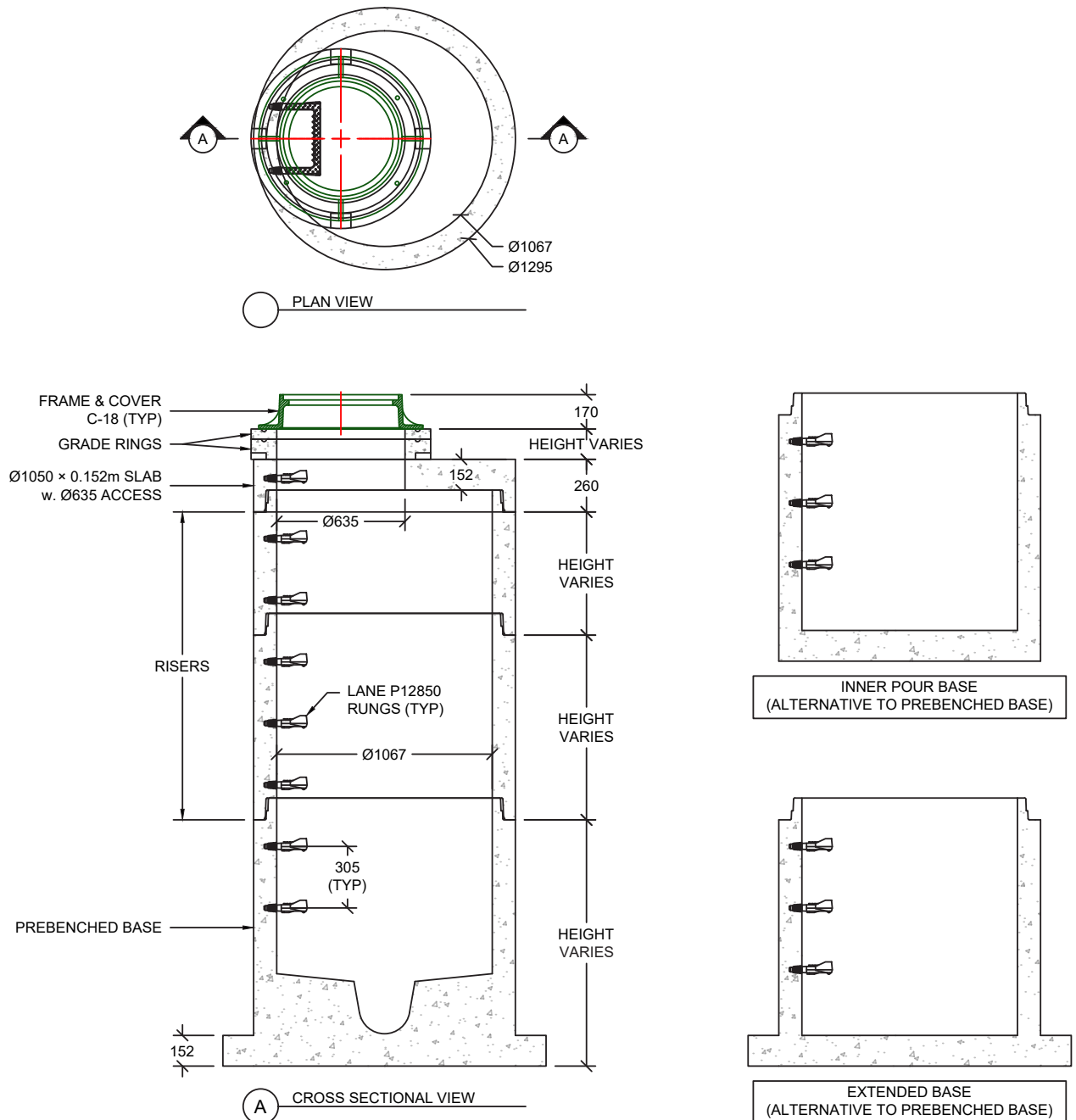
- NOTES 1. Does not include gaskets
 2. Includes costs of C18 frame & cover

LARGE DIAMETER ESTIMATION TABLE

DIAMETER	BASE	MH BARREL (1.45 MIN)	LID	GRADE RING	FRAME & COVER	AVG TOTAL PRICE	ADD ON \$/M
1350							
1500							
1650	Call for pricing						
1800							
2100	Call for pricing						
2400							
2700	Call for pricing						
3000	Call for pricing						

MANHOLE MATERIAL

STANDARD 1050mm MANHOLE



LARGE DIAMETER MANHOLE MATERIAL

ASTM C478/CSA A 257.4

DESCRIPTION & DIMENSIONS	VOLUME (L/barrel)	WEIGHT (kg)	LIFT PINS	PRICE (\$/ea)
1350mm DIAMETER MATERIAL				
1350mm X 2.5m MH Riser	3695	4950	(3x) 4T	-
1350mm X 2.1m MH Riser	3104	4228	(3x) 4T	-
1350mm X 1.8m MH Riser	2660	3624	(3x) 4T	-
1350mm X 1.5m MH Riser	2217	3020	(3x) 4T	-
1350mm X 1.2m MH Riser	1774	2416	(3x) 4T	-
1350mm X 0.9m MH Riser	1330	1812	(3x) 4T	-
1350mm X 0.6m MH Riser	887	1208	(3x) 4T	-
1350mm X 0.3m MH Riser	443	604	(3x) 4T	-
1350mm Lid (635mm Opening)	-	1125	(3x) 4T	-
1350mm Slab Base	-	1328	(3x) 4T	-
1350mm Extended Base	-	1760	(3x) 4T	-
1500mm DIAMETER MATERIAL				
1500mm x 2.5m MH Riser	4560	5617	(3x) 4T	-
1500mm x 2.1m MH Riser	3648	4493	(3x) 4T	-
1500mm x 1.8m MH Riser	3283	4044	(3x) 4T	-
1500mm x 1.5m MH Riser	2736	3370	(3x) 4T	-
1500mm x 1.2m MH Riser	2189	2426	(3x) 4T	-
1500mm x 0.9m MH Riser	1642	2148	(3x) 4T	-
1500mm x 0.6m MH Riser	1094	1348	(3x) 4T	-
1500mm x 0.3m MH Riser	547	716	(3x) 4T	-
1500mm LID (635mm Opening)	-	1525	(3x) 4T	-
1500mm Slab Base	-	1685	(3x) 4T	-
1500mm Extended Base	-	2083	(3x) 4T	-
1650mm DIAMETER MATERIAL – Call for Pricing				
1800mm DIAMETER MATERIAL				
1800mm x 2.44m MH Riser	6304	7676	(3x) 8T	-
1800mm x 2.1m MH Riser	5426	6678	(3x) 8T	-
1800mm x 1.8m MH Riser	4729	6140	(3x) 8T	-
1800mm x 1.5m MH Riser	3875	4770	(3x) 8T	-
1800mm x 1.2m MH Riser	3153	5527	(3x) 8T	-
1800mm x 0.9m MH Riser	2377	4605	(3x) 8T	-
1800mm x 0.6m MH Riser	1576	3684	(3x) 8T	-
1800mm x 0.30m MH Riser	1188	1843	(3x) 8T	-
1800mm LID (635mm Opening)	-	2270	(3x) 8T	-
1800mm Slab Base	-	2241	(3x) 8T	-
1800mm Extended Base	-	2798	(3x) 8T	-

NOTES 1. Contact your local Sales Representative for pricing on 1650, 2100, 2700, and 3000 large diameter manholes

LARGE DIAMETER MANHOLE MATERIAL

ASTM C478/CSA A 257.4

DESCRIPTION & DIMENSIONS	VOLUME (L/barrel)	WEIGHT (kg)	LIFT PINS	PRICE (\$/ea)
2100mm DIAMETER MATERIAL – Call for Pricing				
2400mm DIAMETER MATERIAL				
2400mm x 2.44m MH Riser	11390	12101	(4x) 8T	-
2400mm x 2.10m MH Riser	9803	10094	(4x) 8T	-
2400mm x 1.8m MH Riser	8543	9076	(4x) 8T	-
2400mm x 1.50m MH Riser	7002	7210	(4x) 8T	-
2400mm x 1.2m MH Riser	5602	5779	(4x) 8T	-
2400mm x 0.9m MH Riser	4295	4165	(4x) 8T	-
2400mm x 0.60m MH Riser	2411	2884	(4x) 8T	-
2400mm x 0.3m MH Riser	1050	1442	(4x) 8T	-
2400mm LID (635mm Opening)	-	3155	(4x) 8T	-
2400mm Slab Base	-	2859	(4x) 8T	-
2400mm Extended Base	-	3752	(4x) 8T	-
2700mm DIAMETER MATERIAL – Call for Pricing				
2700mm x 2.5m Barrel	14773	15758	(3x) 8T	-
2700mm x 2.0m Barrel	11819	12606	(3x) 8T	-
2700mm x 1.8m Barrel	10637	11346	(3x) 8T	-
2700mm x 1.5m Barrel	8864	9455	(3x) 8T	-
2700mm x 1.2m Barrel	7091	7564	(3x) 8T	-
2700mm x 0.6m Barrel	3546	3782	(3x) 8T	-
2700mm LID (635mm Opening)	-	5300	(3x) 8T	-
2700mm Slab Base	-	5270	(3x) 8T	-
3000mm DIAMETER MATERIAL – Call for Pricing				
3000mm x 2.5m Barrel	18241	17797	(3x) 8T	-
3000mm x 2.0m Barrel	14593	14238	(3x) 8T	-
3000mm x 1.8m Barrel	13134	12814	(3x) 8T	-
3000mm x 1.5m Barrel	10945	10678	(3x) 8T	-
3000mm x 1.2m Barrel	8756	8543	(3x) 8T	-
3000mm x 0.6m Barrel	4378	4271	(3x) 8T	-
3000mm LID (635mm Opening)	-	6575	(3x) 8T	-
3000mm Slab Base	-	6480	(3x) 8T	-

NOTES 1. Contact your local Sales Representative for pricing on 1650, 2100, 2700, and 3000 large diameter manholes

LARGE DIAMETER MANHOLES

LARGE DIAMETER MANHOLES



CATCH BASIN & LAWN BASIN MATERIAL

ASTM C478

INSIDE DIAMETER (mm)	BARRELS		LIDS				Bases	
			Catch Basin		Lawn Basin		Flat inner	Extended
	WEIGHT (kg/ea.)	PRICE (\$/ea.)	WEIGHT (kg/ea.)	PRICE (\$/ea.)	WEIGHT (kg/ea.)	PRICE (\$/ea.)	PRICE (\$/ea.)	PRICE (\$/ea.)
300mm DIAMETER MATERIAL								
300 x 0.15m Barrel	21	-	-	-	13	-	-	-
300 x 0.45m Barrel	63	-	-	-	-	-	-	-
375mm DIAMETER MATERIAL								
375 x 0.15m Barrel	33	-	-	-	-	-	-	-
375 x 0.30m Barrel	60	-	-	-	-	-	-	-
375 x 0.60m Barrel	125	-	-	-	16	-	-	-
375 x 1.20m Barrel	230	-	-	-	-	-	-	-
450mm DIAMETER MATERIAL								
450 x 0.15m Barrel	50	-	-	-	-	-	-	-
450 x 0.30m Barrel	90	-	-	-	-	-	-	-
450 x 0.60m Barrel	175	-	72	-	21	-	-	-
450 x 0.90m Barrel	230	-	-	-	-	-	-	-
450 x 1.20m Barrel	310	-	-	-	-	-	-	-
600mm DIAMETER MATERIAL								
600 x 0.15m Barrel	70	-	-	-	-	-	-	-
600 x 0.30m Barrel	130	-	-	-	-	-	-	-
600 x 0.60m Barrel	255	-	126	-	42	-	-	-
600 x 0.90m Barrel	360	-	-	-	-	-	-	-
600 x 1.20m Barrel	470	-	-	-	-	-	-	-
750mm DIAMETER MATERIAL								
750 x 0.15m Barrel	90	-	-	-	-	-	-	-
750 x 0.30m Barrel	180	-	-	-	-	-	-	-
750 x 0.60m Barrel	350	-	221	-	79	-	-	-
750 x 0.90m Barrel	530	-	-	-	-	-	-	-
750 x 1.20m Barrel	690	-	-	-	-	-	-	-
900mm DIAMETER MATERIAL								
900 x 0.30m Barrel	240	-	-	-	-	-	-	-
900 x 0.60m Barrel	480	-	-	-	-	-	-	-
900 x 0.90m Barrel	720	-	378	-	147	-	-	-
900 x 1.20m Barrel	960	-	-	-	-	-	-	-

NOTES 1. Call for pricing on extended bases, dimension are as follows:

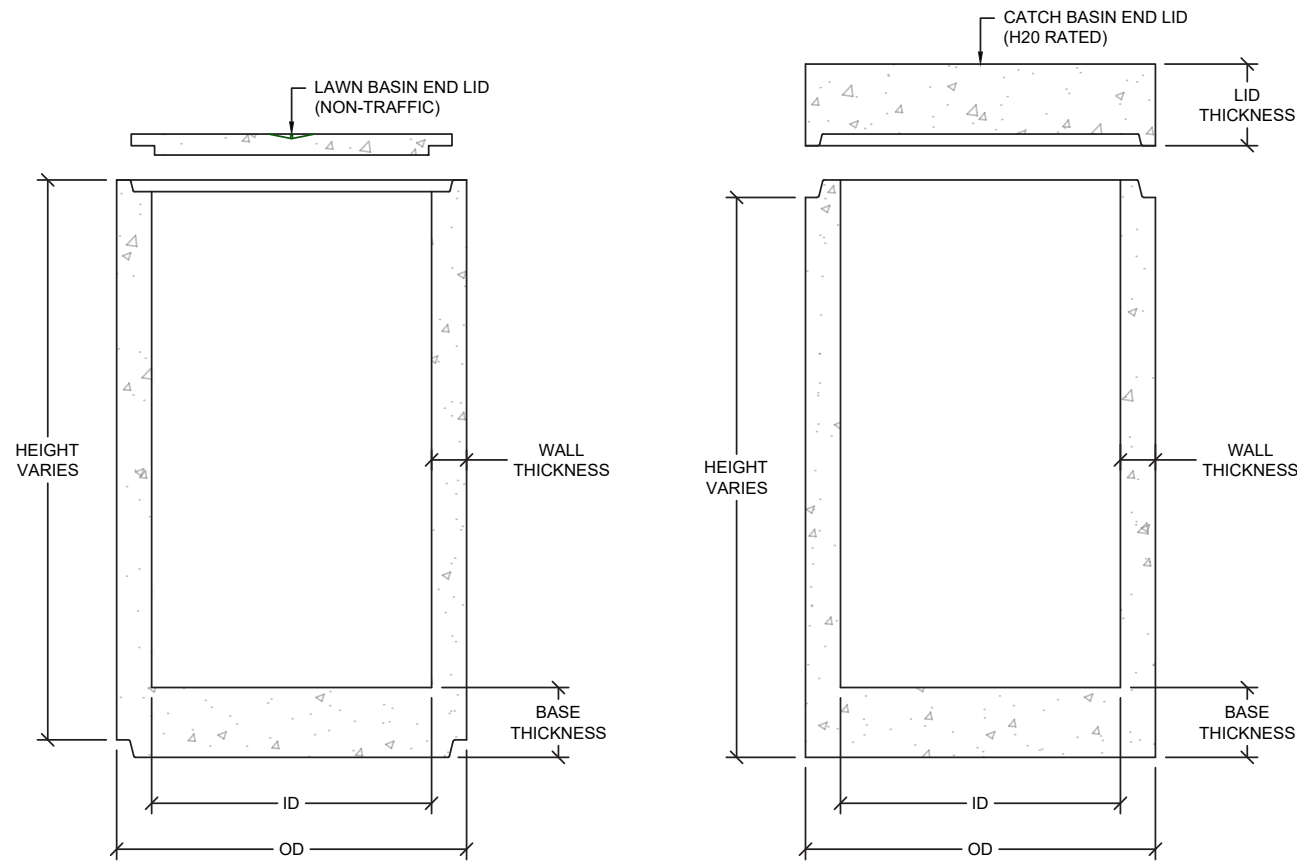
- 450mm - 0.9 x 0.9m Square Base
- 600mm - 1.2 x 1.2m Square Base
- 750mm - 1240mm Diameter Round
- 900mm - 1418mm Diameter Round

CATCH BASIN MATERIAL

ASTM C478/CSA A 257.4

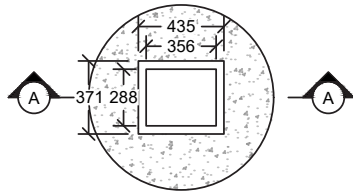
NOMINAL DIAMETER (mm)	ACTUAL INSIDE DIAMETER (mm)	ACTUAL OUTSIDE DIAMETER (mm)	BASE THICKNESS (mm)	SPIGOT LENGTH (mm)	WALL THICKNESS (mm)	LID THICKNESS (mm)
300	305	407	102	32	51	N/A
375	381	495	102	38	57	N/A
450	457	584	102	38	64	127
600	610	762	152	38	76	178
750	762	940	127	46	89	184
900	915	1118	127	73	102	225

CATCH BASINS

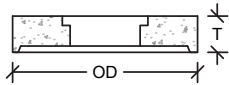


CATCH BASIN MATERIAL - LIDS

RICHMOND CATCH BASIN LID (ST-5-SD)
c/w 350×430mm (14x17") OPENING
AVAILABLE FOR Ø600mm - Ø900mm

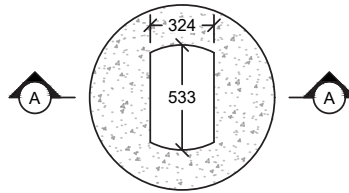


PLAN VIEW

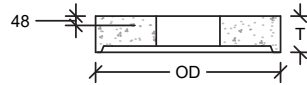


CROSS SECTIONAL VIEW

TOP INLET CATCH BASIN LID (MMCD S11)
c/w 300×525mm (12x21") OPENING
AVAILABLE FOR Ø600mm - Ø900mm

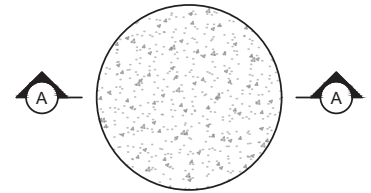


PLAN VIEW

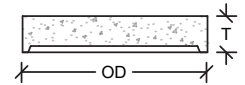


CROSS SECTIONAL VIEW

SOLID CONCRETE LID
AVAILABLE FOR Ø450mm - Ø900mm
CATCH BASINS

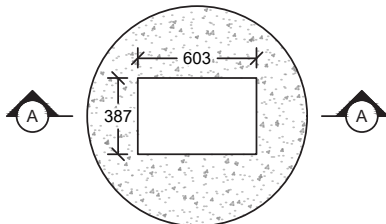


PLAN VIEW

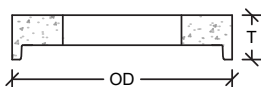


CROSS SECTIONAL VIEW

MOT CATCH BASIN LID (SP582-02.01)
c/w 375×580mm (15x23") OPENING
AVAILABLE FOR Ø750mm - Ø900mm

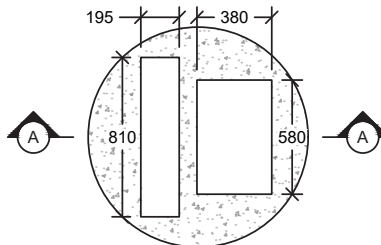


PLAN VIEW

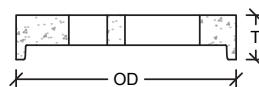


CROSS SECTIONAL VIEW

SIDE INLET CATCH BASIN LID
c/w SIDE/CURB INLET OPENINGS
FOR Ø900mm ONLY

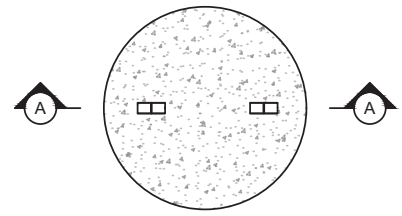


PLAN VIEW



CROSS SECTIONAL VIEW

SOLID CONCRETE LID FOR
Ø300mm - Ø900mm LAWN BASINS
NON-TRAFFIC LOADING ONLY



PLAN VIEW



CROSS SECTIONAL VIEW

*ALL LIDS SHOWN ARE RATED FOR H20 LOADING UNLESS OTHERWISE STATED.

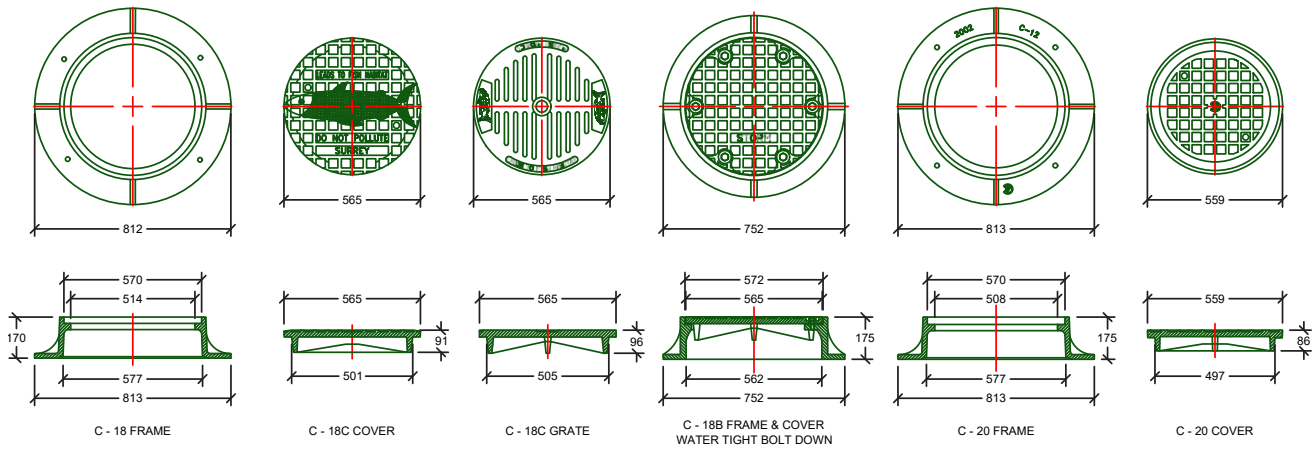
CAST IRON

DESCRIPTION	OPENING SIZE	WEIGHT (KG)	PRICE
D2B (14) Grate	300mm Lawn Basin	11	-
B33R Grate	375mm Lawn Basin	24	-
B26A Frame	450mm Catch Basin	27	-
B26A Cover	450mm Catch Basin	30	-
B26A Grate	450mm Catch Basin	25	-
B26C Grate	450mm Lawn Basin	32	-
B26B Frame	600mm Catch Basin	34	-
B26B Grate	600mm Catch Basin	42	-
B26F Cover	600mm Catch Basin	42	-
B22A Grate	600mm Lawn Basin	60	-
B24D Frame	Top Inlet - 300mm x 525mm (12"x 21")	60	-
B23 Grate	Top Inlet - 300mm x 525mm (12"x 21")	49	-
B25A Frame	Richmond Curb Style - 350mm x 430mm (14" x17")	26	-
B25A Grate	Richmond Curb Style - 350mm x 430mm (14" x17")	30	-
C18 Frame	Manhole Lid with 635mm Opening	77	-
C18 Grate	Manhole Lid with 635mm Opening	46	-
C18 Cover	Manhole Lid with 635mm Opening	54	-
C18D Frame	Manhole Lid with 635mm Opening	50	-
C18B Watertight Frame	Manhole Lid with 635mm Opening	88	-
C18B Watertight Cover	Manhole Lid with 635mm Opening	44	-
C42 Frame	Manhole Lid with 900mm Opening	98	-
C42 Cover	Manhole Lid with 900mm Opening	160	-
C42 (C60) Grate	Manhole Lid with 900mm Opening	150	-
B19A Frame	Dept. of Hwys STD - 375mm x 580mm (15" x 23")	67	-
B19A Twin Frame	Dept. of Hwys STD - 375mm x 580mm (15" x 23")	226	-
B19A Grate	Dept. of Hwys STD - 375mm x 580mm (15" x 23")	54	-
150mm Aluminum Surtrap	-	2	-
200mm Aluminum Surtrap	-	2	-
A10 Trapping Hood	Maximum sizes - 200 PVC	9.5	-
A11 Trapping Hood	Maximum sizes - 300 PVC	15	-

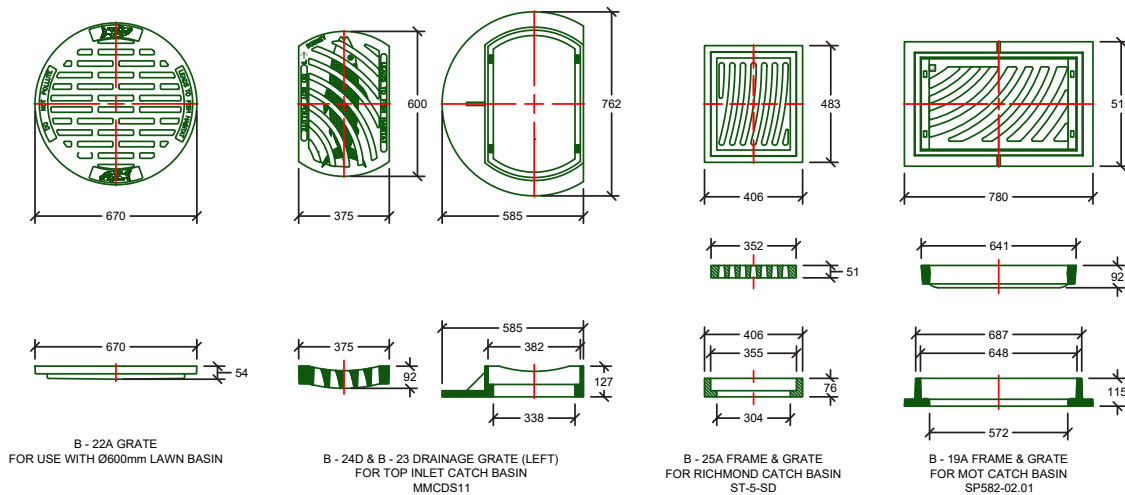
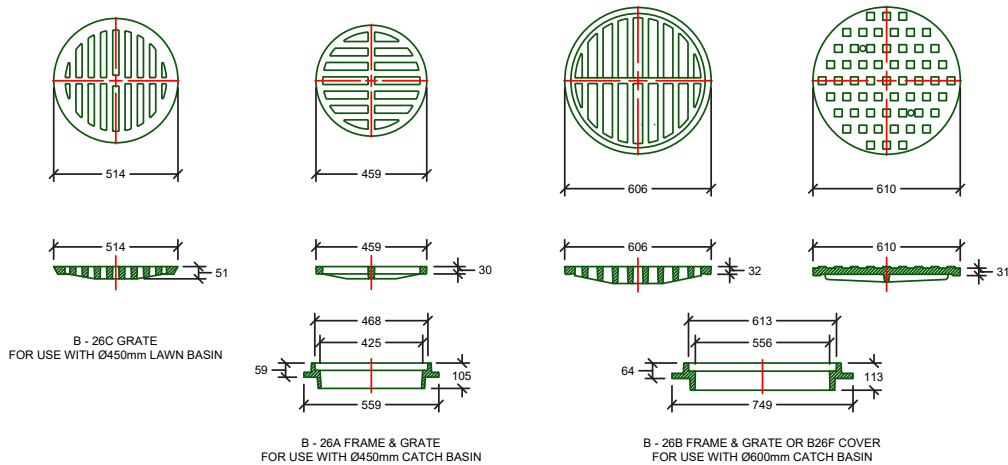
NOTES 1. Call your local Sales Representative for pricing

CAST IRON

MANHOLE FRAME & COVER



CATCH BASIN FRAME & COVER



BOX SECTIONS

ASTM C1433

				COVER RANGE 1	COVER RANGE 2	COVER RANGE 3
DESCRIPTION & DIMENSIONS	VOLUME (L/box)	WEIGHT (kg)	LIFT PINS	1.0 m - 3.5m (HORIZONTAL INSTALL)	3.5 m - 6.0m (HORIZONTAL INSTALL)	6.0 m - 9.0m (HORIZONTAL INSTALL & MANHOLES)
1829mm x 914mm (6'x3')						
2.5m Box Length	4021	7291	(4x) 4T	-	-	-
2.0m Box Length	3217	5833	(4x) 4T	-	-	-
1.8m Box Length	2895	5250	(4x) 4T	-	-	-
1.5m Box Length	2413	4375	(4x) 4T	-	-	-
1.2m Box Length	1930	3500	(4x) 4T	-	-	-
0.6m Box Length	965	1750	(4x) 4T	-	-	-
Base / Slab Top	-	1450	(4x) 4T	-	-	-
1829mm x 1219mm (6'x4')						
2.5m Box Length	5415	7970	(4x) 4T	-	-	-
2.0m Box Length	4332	6376	(4x) 4T	-	-	-
1.8m Box Length	3899	5738	(4x) 4T	-	-	-
1.5m Box Length	3249	4782	(4x) 4T	-	-	-
1.2m Box Length	2599	3826	(4x) 4T	-	-	-
0.6m Box Length	1300	1913	(4x) 4T	-	-	-
Base / Slab Top	-	1620	(4x) 4T	-	-	-
2439mm x914mm (8'x3') – Call for Pricing						
2.5m Box Length	5367	10054	(4x) 8T	-	-	-
2.0m Box Length	4294	8043	(4x) 8T	-	-	-
1.8m Box Length	3864	7239	(4x) 8T	-	-	-
1.5m Box Length	3220	6032	(4x) 8T	-	-	-
1.2m Box Length	2576	4826	(4x) 8T	-	-	-
0.6m Box Length	1288	2413	(4x) 8T	-	-	-
Base / Slab Top	-	3012 / 3586	(4x) 8T	-	-	-
2439mm x 1219mm (8'x4')						
2.5m Box Length	7227	10828	(4x) 8T	-	-	-
2.0m Box Length	5781	8662	(4x) 8T	-	-	-
1.8m Box Length	5203	7796	(4x) 8T	-	-	-
1.5m Box Length	4336	6497	(4x) 8T	-	-	-
1.2m Box Length	3469	5197	(4x) 8T	-	-	-
0.6m Box Length	1734	2599	(4x) 8T	-	-	-
Base / Slab Top	-	3012 / 3586	(4x) 8T	-	-	-

NOTES

1. Boxes are designed to CSA S6 and manufactured to ASTM 1433

2. Cover ranges indicate height between the top of the box and the ground surface (rim elevation)

3. Box material is all custom, call for schedule/lead times

4. Contact your local Sales Representative for pricing on Cover Ranges 2 & 3 and 2400 x 900 boxes

BOX SECTIONS

ASTM C1433

				COVER RANGE 1	COVER RANGE 2	COVER RANGE 3
DESCRIPTION & DIMENSIONS	VOLUME (L/box)	WEIGHT (kg)	LIFT PINS	1.0 m - 3.5m (HORIZONTAL INSTALL)	3.5 m - 6.0m (HORIZONTAL INSTALL)	6.0 m - 9.0m (HORIZONTAL INSTALL & MANHOLES)
2439mm x 1524mm (8'x5')						
2.5m Box Length	9087	11601	(4x) 8T	-	-	-
2.0m Box Length	7269	9281	(4x) 8T	-	-	-
1.8m Box Length	6542	8353	(4x) 8T	-	-	-
1.5m Box Length	5452	6961	(4x) 8T	-	-	-
1.2m Box Length	4362	5569	(4x) 8T	-	-	-
0.6m Box Length	2181	2784	(4x) 8T	-	-	-
Base / Slab Top	-	3330	(4x) 8T	-	-	-
2439mm x 1829mm (8'x6') - Call for Pricing						
2.5m Box Length	10946	12375	(4x) 8T	-	-	-
2.0m Box Length	8757	9900	(4x) 8T	-	-	-
1.8m Box Length	7881	8910	(4x) 8T	-	-	-
1.5m Box Length	6568	7425	(4x) 8T	-	-	-
1.2m Box Length	5254	5940	(4x) 8T	-	-	-
0.6m Box Length	2627	2940	(4x) 8T	-	-	-
Base / Slab Top	-	4203 / 4859	(4x) 8T	-	-	-
2439mm x 2439mm (8'x8')						
2.5m Box Length	14666	13923	(4x) 8T	-	-	-
2.0m Box Length	11733	11139	(4x) 8T	-	-	-
1.8m Box Length	10559	10025	(4x) 8T	-	-	-
1.5m Box Length	8799	8354	(4x) 8T	-	-	-
1.2m Box Length	7040	6683	(4x) 8T	-	-	-
0.6m Box Length	3520	3342	(4x) 8T	-	-	-
Base / Slab Top	-	5636 / 6214	(4x) 8T	-	-	-
3049mm x 1524mm (10'x5')						
2.5m Box Length	11294	16939	(4x) 8T	-	-	-
2.0m Box Length	9035	13551	(4x) 8T	-	-	-
1.8m Box Length	8132	12196	(4x) 8T	-	-	-
1.5m Box Length	6776	10163	(4x) 8T	-	-	-
1.2m Box Length	5421	8131	(4x) 8T	-	-	-
0.6m Box Length	2711	4065	(4x) 8T	-	-	-
Base / Slab Top	-	4130	(4x) 8T	-	-	-

NOTES 1. Boxes are designed to CSA S6 and manufactured to ASTM 1433

2. Cover ranges indicate height between the top of the box and the ground surface (rim elevation)

3. Box material is all custom, call for schedule/lead times

4. Contact your local Sales Representative for pricing on Cover Ranges 2 & 3 and 2400 x 1800 boxes

BOX SECTIONS

ASTM C1433

				COVER RANGE 1	COVER RANGE 2	COVER RANGE 3
DESCRIPTION & DIMENSIONS	VOLUME (L/box)	WEIGHT (kg)	LIFT PINS	1.0 m - 3.5m (HORIZONTAL INSTALL)	3.5 m - 6.0m (HORIZONTAL INSTALL)	6.0 m - 9.0m (HORIZONTAL INSTALL & MANHOLES)
3049mm x 2439mm (10'x8')						
2.5m Box Length	18269	19844	(4x) 8T	-	-	-
2.0m Box Length	14615	15875	(4x) 8T	-	-	-
1.8m Box Length	13153	14288	(4x) 8T	-	-	-
1.5m Box Length	10961	11906	(4x) 8T	-	-	-
1.2m Box Length	8769	9525	(4x) 8T	-	-	-
0.6m Box Length	4384	4763	(4x) 8T	-	-	-
Base / Slab Top	-	7262 / 8085	(4x) 8T	-	-	-
3658mm x 3049mm (12' x 10') - Call for Pricing						
2.0m Box Length	21934	23247	(4x) 8T	-	-	-
1.8m Box Length	19741	20922	(4x) 8T	-	-	-
1.5m Box Length	16451	17435	(4x) 8T	-	-	-
1.2m Box Length	13161	13948	(4x) 8T	-	-	-
0.6m Box Length	6580	6974	(4x) 8T	-	-	-
Base / Slab Top	-	-	(4x) 8T	-	-	-
3658mm x 3658mm (12' x 12') - Call for Pricing						
1.8m Box Length	23751	22594	(4x) 8T	-	-	-
1.5m Box Length	19792	18828	(4x) 8T	-	-	-
1.2m Box Length	15834	15063	(4x) 8T	-	-	-
0.6m Box Length	7917	7531	(4x) 8T	-	-	-
Base / Slab Top	-	16022 / 14582	(4x) 8T	-	-	-

- NOTES
1. Boxes are designed to CSA S6 and manufactured to ASTM 1433

2. Cover ranges indicate height between the top of the box and the ground surface (rim elevation)

3. Box material is all custom, call for schedule/lead times

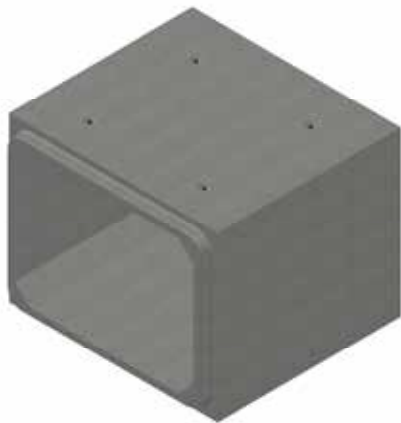
4. Contact your local Sales Representative for pricing on Cover Ranges 2 & 3 and 3600 x 3000 and 3600 x 3600



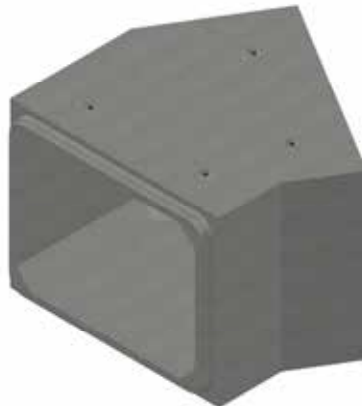
BOX SECTIONS

ASTM C1433

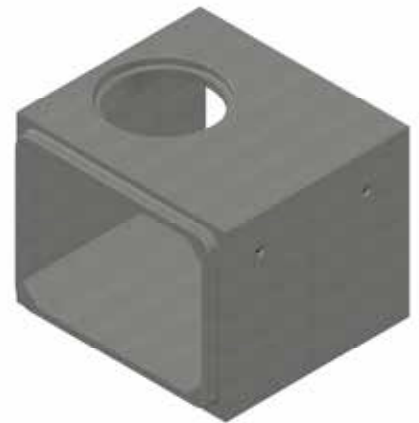
ACTUAL INSIDE DIMENSIONS SPAN X RISE	OUTSIDE DIMENSIONS	WALL THICKNESS (mm)	SLAB TOP THICKNESS (mm)	BASE THICKNESS (mm)	SPIGOT LENGTH (mm)	JOINT TYPE
1829mm x 914mm	2184mm x 1270mm	178	254	254	127	Single Offset
1829mm x 1219mm	2184mm x 1575mm	178	254	254	102	Tongue & Groove
2439mm x 914mm	2845mm x 1321mm	203	305	305	127	Single Offset
2439mm x 1219mm	2845mm x 1626mm	203	305	305	127	Single Offset
2439mm x 1524mm	2845mm x 1930mm	203	305	305	108	Tongue & Groove
2439mm x 1829mm	2845mm x 2235mm	203	305	305	127	Single Offset
2439mm x 2439mm	2845mm x 2845mm	203	305	305	108	Tongue & Groove
3049mm x 1524mm	3556mm x 2032mm	254	355	355	108	Tongue & Groove
3049mm x 2439mm	3556mm x 2946mm	254	355	355	108	Tongue & Groove
3658mm x 3049mm	4267mm x 3658mm	305	406	406	127	Single Offset
3658mm x 3658mm	4267mm x 4267mm	305	406	406	127	Single Offset



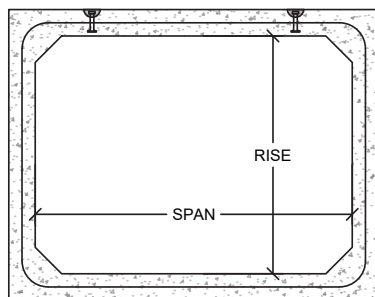
Box Culvert



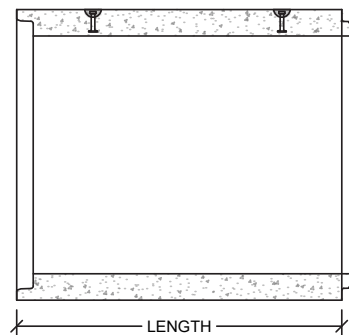
Box Bend



Box Culvert with
manhole opening



FRONT VIEW



SIDE VIEW

HEADWALLS

TYPE	MAX OPENING (mm)	HEADWALL WEIGHT (kg)	PRICE (\$/ea)			
			HEADWALL	INLET GRILL	OUTLET GRILL	HAND RAIL
Type I Coquitlan Std	406 Knockout	1010	-	-	-	-
MOT Highway Std SP582-0401	610 Knockout	2100	-	-	-	-
Type II	450 RCP	1010	-	-	-	-
11 - 13	600 RCP	2760	-	-	-	-
14 - 15	750 RCP	3700	-	-	-	-
16 - 20	1200 RCP	6500	-	-	-	-
26 - 28 Short	1800 RCP	13000	-	-	-	-
26 - 28	2400 RCP 1800 x 900 Box	15200	-	-	-	-

NOTES 1. RCP stands for Reinforced Concrete Pipe

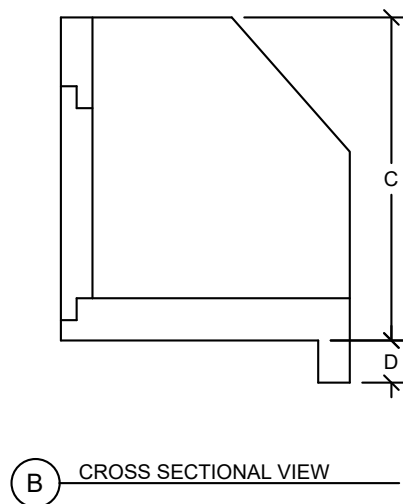
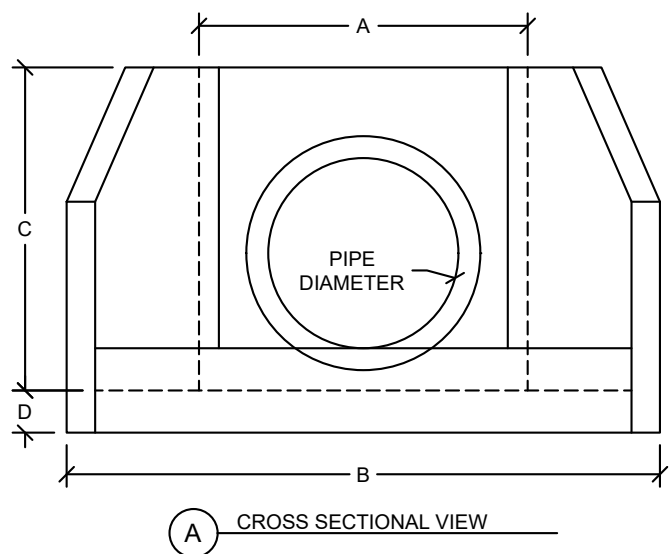
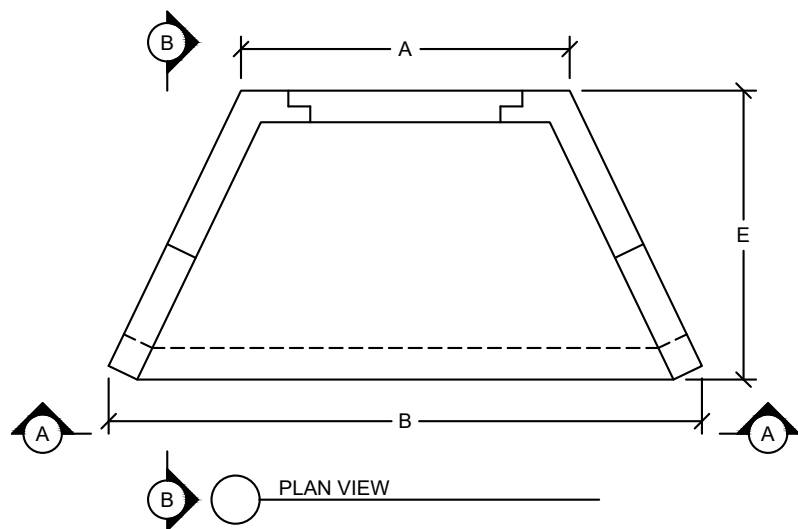
Additional Information

TYPE	PIPE DIAMETER OPENING (mm)	WEIGHT (kg)	A (mm)	B (mm)	C (mm)	E (mm)
Type II	150 - 450	1010	700	1280	1000	556
11 - 13	525 - 600	2760	1314	2581	1147	1130
14 - 15	67 - 750	3700	1581	2854	1351	1390
16 - 20	900 - 1200	6500	1855	3166	1873	1600
26 - 28 Short	1350 - 1800	13000	2955	4186	2286	2599
26 - 28	0 - 2400, 1800 x 900	15200	2955	4186	2972	2599

For detailed headwall drawings, please visit our website



HEADWALLS



MISCELLANEOUS MATERIALS

DESCRIPTION	WEIGHT (kg/ea)	PRICE (\$/ea)
SPACER RINGS		
50mm Manhole Spacer Ring 635mm Opening	35	-
50mm Manhole Spacer Ring 900mm Opening	40	-
100mm Manhole Spacer Ring 635mm Opening	65	-
50mm Catch Basin Spacer Ring Full Circle 600mm Opening	20	-
50mm Catch Basin Spacer D Ring	25	-
50mm Catch Basin Spacer Full Circle D Ring	30	-
50mm Catch Basin Spacer Ring MOT	35	-
50mm Catch Basin Spacer Ring Side Inlet	75	-
BUTYL MASTIC JOINT		
CS202 Sealant ConSeal 4.4m per roll, 25.4mm (1") wide		-
CS212 Sealant ConSeal 15.24m per roll, 152.4mm (6") wide		-
CS75 ConSeal Primer Per Gallon (2 Gallon/5roll)	5	-
CEMENT AND GROUT MATERIALS		
Basalite Fast Patch	25	-
LADDERS		
Polypropylene Manhole Steps Lane International P-12850 (standard)	-	-
Polypropylene Manhole Steps Lane Interntaional P-14938 (wide)	-	-
Galvanized Rungs 3/4" x 8" x 12" Rungs	-	-
12" Aluminum Ladder Rungs (MSU)	-	-
CLUTCHES		
2 Ton Swift Lift Clutch		-
4 Ton Swift Lift Clutch	-	-
8 Ton Swift Lift Clutch	-	-
CATCH BASIN TRAPPING HOOD PINS		
Trapping Hood Pin per each	-	-

NOTES 1. Drywells available in 1200 diameter, contact your local Sales Representative

GASKET & CONNECTIONS INFORMATION

At Heidelberg Materials, we provide pipe gaskets and a variety of manhole boot connectors alongside our concrete products to ensure a water-tight seal. For tailored solutions that best meet the unique requirements of your project, we invite you to connect with your local Sales Representative. They will be pleased to assist you in determining the optimal products for your specific needs.

PSX: Direct Drive

PSX: Direct Drive is a high-performance watertight pipe to manhole connector. It is the premier manhole connector in the industry for providing watertight connections to manholes and other sanitary and storm sewer structures.



Kwik Seal

Kwik Seal is a precisely sized compression connector (pipe to manhole connector) made to fit in a cored or cast opening.



RFS/Superseal Gasket

The RFS/Superseal Gasket is a pre-lubricated pipe and manhole gasket is an encapsulated all rubber gasket that is filled with an internal lubricant.



For more information on these products, visit the following websites:



STORM WATER TREATMENT



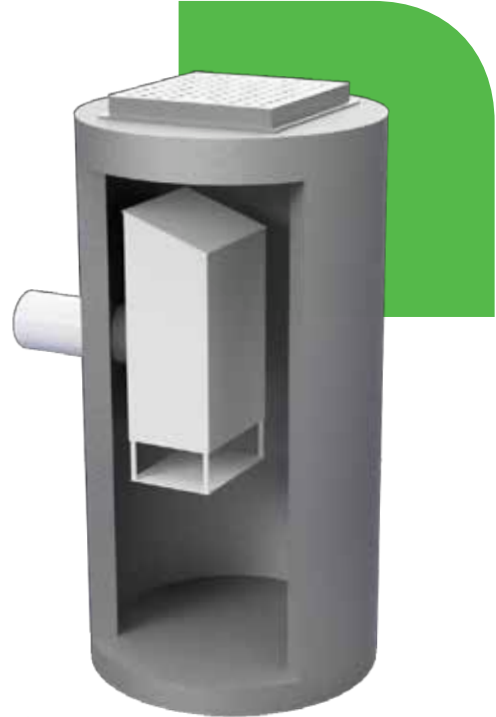
At Heidelberg Materials, we offer storm water treatment solutions that effectively capture total suspended solids, sediments, oils, greases, trash and debris. Please feel free to reach out to your local Sales Representative for more information.

HydroDome

HydroDome is a low-velocity siphon hydrodynamic separator that efficiently removes oil, trash, and TSS (suspended solids and their associated metals, nutrients, & bacteria) from stormwater runoff. HydroDome can be used as a stand-alone treatment solution; as part of a treatment train; or as a pretreatment device for infiltration, underground storage, and bioretention. It can also be used in combination with HydroFilter.

Features:

- Highest rated TSS Removal (83.9%) by ETV Canada
- Has a 99.7% retention rate for oil/floatables
- Lower cost than most separators
- Can be installed by contractor on project site
- Easy to install, inspect, and maintain
- Can be used as an inlet, bend, or junction structure

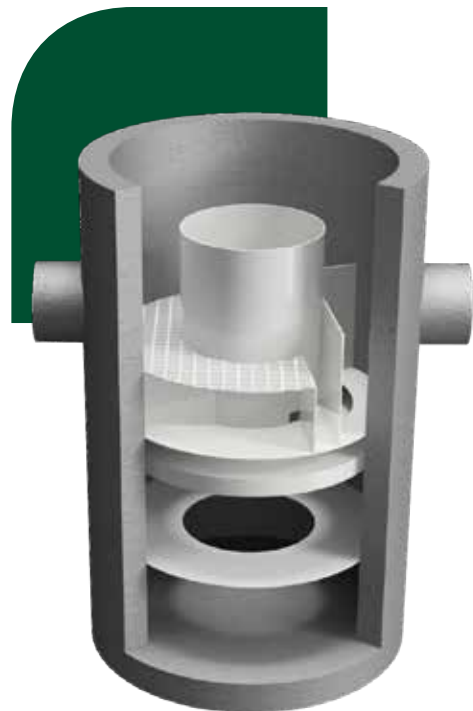


HydroStorm

HydroStorm is a vortex hydrodynamic separator that efficiently removes oil, trash, and TSS (suspended solids and their associated metals, nutrients, & bacteria) from stormwater runoff. HydroStorm can be used as a stand-alone treatment solution; as part of a treatment train; or as a pretreatment device for infiltration, underground storage, and bioretention.

Features:

- Low headloss suitable for sensitive drainage systems
- Internal high flow bypass prevents scour at high flows
- Suitable for shallow structures
- Can accommodate multiple pipes
- Can be used as an inlet, bend, or junction structure
- Reduced sump depths to minimize excavation



STORM WATER TREATMENT

HydroFilter

STORMWATER FILTER

HydroFilter is a modular multi-stage filter that efficiently removes oil, trash, and TSS (suspended solids and their associated metals, nutrients, & bacteria) from stormwater runoff. HydroFilter can be used as a stand-alone treatment solution; as part of a treatment train.

Features:

- Removes TSS, Nutrients and other pollutants
- Vertically stacked modular filters reduces footprint
- ETV Canada (ISO 14034) verified
- Can be made in round or rectangular structures
- Can be installed online or offline (NJDEP online certified)
- Can be designed with HydroDome to create the driving head for HydroFilter
- Can incorporate infiltration as part of the system

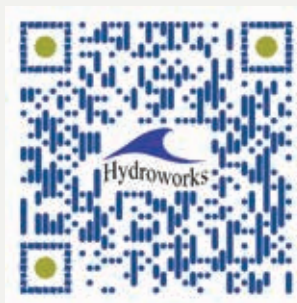


Scan the QR codes below to learn more about these products

HydroDome



HydroStorm



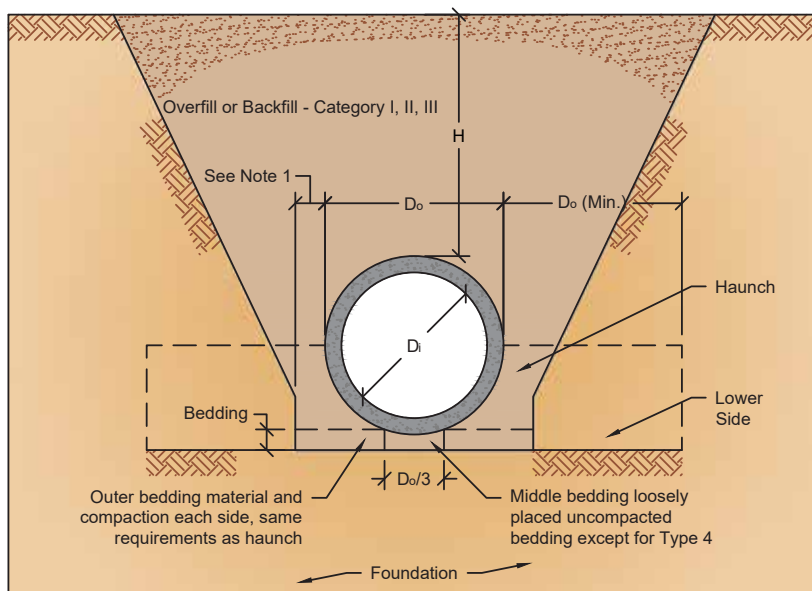
HydroFilter



HYDROWORKS.COM

STANDARD INSTALLATION

STANDARD TRENCH INSTALLATION



Note 1: Clearance between pipe and trench wall shall be adequate to enable specific compaction, but not less than $D_o/6$

To learn more about
Standard Installations,
check out the American
Concrete Pipe Association
(ACPA) website:



SOIL AND MINIMUM COMPACTION REQUIREMENTS

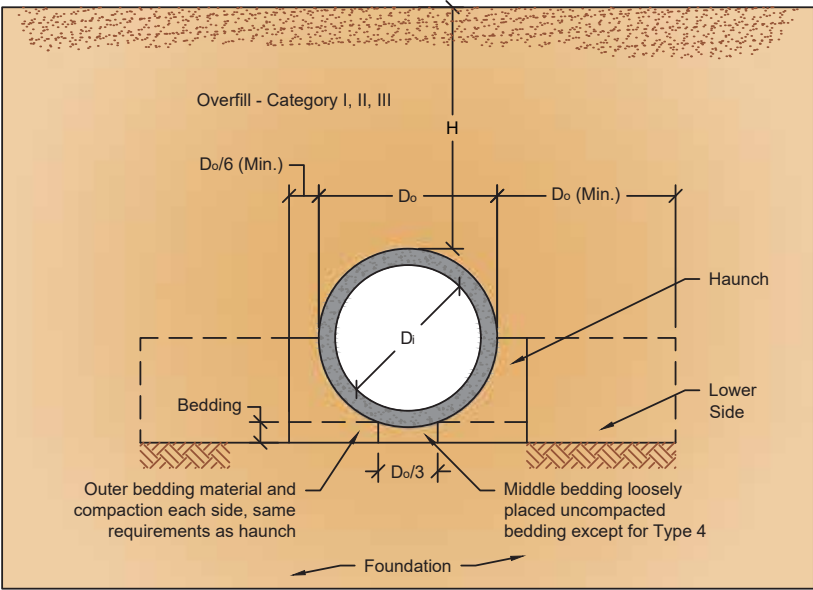
Installation Type	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 mm.	95% Category I	Undisturbed natural soil with firmness equivalent to the following placed soils: 90% Category I, 95% Category II, or 100% Category III, or embankment to the same requirements
Type 2	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 mm.	90% Category I or 95% Category II	Undisturbed natural soil with firmness equivalent to the following placed soils: 85% Category I, 90% Category II, or 95% Category III, or embankment to the same requirements
Type 3	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 mm.	85% Category I, 90% Category II, or 95% Category III	Undisturbed natural soil with firmness equivalent to the following placed soils: 85% Category I, 90% Category II, or 95% Category III, or embankment to the same requirements
Type 4	No bedding required, except if rock foundation, use $D_o/12$ minimum; not less than 150 mm.	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

- 1) Compaction and soil symbols (that is, 95% Category I), refer to a soil material category with a minimum standard proctor density. See ASTM C1479M Table 3 for equivalent modified proctor values and soil types.
- 2) Type 1 installations require greater soil stiffness from the surrounding soils than the Type 2, 3, and 4 installations. Proper field verification of soil properties and compaction levels must be performed to ensure compliance with the design requirements. See ASTM C1479M Appendix X2 for more information and guidance.
- 3) For Type 1 installation, crushed rock is not an appropriate material for bedding under the pipe. An uncompacted, non-crushed material must be used under the middle third of the pipe outside diameter. While crushed rock meeting the requirements of this specification may self compact vertically, it will not flow laterally to provide support for the haunches of the pipe. To achieve a 90 to 95% compaction with crushed rock, work material under the haunch and compact it to achieve the specified density. Otherwise, the specified installation is not achieved.
- 4) When the trench width specified must be exceeded, the owner shall be notified.
- 5) The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zones.
- 6) Embankment loading shall be used when trench walls consist of embankment unless a geotechnical analysis is made and the soil in the trench walls is compacted to a higher level than the soil in the backfill zone.
- 7) Required bedding thickness is the thickness of the bedding prior to placement of the pipe.
- 8) "Dumped" material without additional compactive effort will not provide the design haunch support required for Type 1 and 2 installations and it should be checked for Type 3 installations.

STANDARD INSTALLATION

STANDARD EMBANKMENT INSTALLATION



To learn more about
Standard Installations,
check out the American
Concrete Pipe Association
(ACPA) website:



SOIL AND MINIMUM COMPACTION REQUIREMENTS			
Installation Type	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 in.	95% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 mm.	90% Category I or 95% Category II	85% Category I, 90% Category II, or 95% Category III
Type 3	$D_o/24$ minimum; not less than 75 mm. If rock foundation, use $D_o/12$ minimum; not less than 150 mm.	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	No bedding required, except if rock foundation, use $D_o/12$ minimum; not less than 150 mm.	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

- 1) Compaction and soil symbols (that is, 95% Category I), refer to a soil material category with a minimum standard proctor density. See ASTM C1479M Table 3 for equivalent modified proctor values and soil types.
- 2) Type 1 installations require greater soil stiffness from the surrounding soils than the Type 2, 3, and 4 installations. Proper field verification of soil properties and compaction levels must be performed to ensure compliance with the design requirements. See ASTM C1479M Appendix X2 for more information and guidance.
- 3) For Type 1 installation, crushed rock is not an appropriate material for bedding under the pipe. An uncompacted, non-crushed material must be used under the middle third of the pipe outside diameter. While crushed rock meeting the requirements of this specification may self compact vertically, it will not flow laterally to provide support for the haunches of the pipe. To achieve a 90 to 95% compaction with crushed rock, work material under the haunch and compact it to achieve the specified density. Otherwise, the specified installation is not achieved.
- 4) Soil in the outer bedding, haunch, and lower side zones, except within $D_o/3$ from the pipe springline, shall be compacted to at least the same compaction as the majority of soil in the overfill zone.
- 5) Required bedding thickness is the thickness of the bedding prior to placement of the pipe.
- 6) A sub trench is defined as a trench with its top below finished grade by more than 0.1H or, for roadways, its top is at an elevation lower than 0.3 m below the bottom of the pavement base material.
The minimum width of a sub trench shall be $1.33 D_o$ or wider, if required for adequate space to attain the specified compaction in the haunch and bedding zones.
For sub trenches, except within $D_o/3$ from the springline, any portion of the lower side zone in the sub trench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or it shall be removed and replaced with soil compacted to the specified level.
- 7) "Dumped" material without additional compactive effort will not provided the design haunch support required for Type 1 and 2 installations and it should be checked for Type 3 installations.

PIPE FILL HEIGHT TABLES

PIPE DIAMETER (mm)	WALL	MAXIMUM DEPTH (m) TO PIPE INVERT FOR: STANDARD INSTALLATION TYPE				PIPE CLASS	PIPE DIAMETER (mm)	WALL	MAXIMUM DEPTH (m) TO PIPE INVERT FOR: STANDARD INSTALLATION TYPE			
		1	2	3	4				1	2	3	4
300	B WALL	6.2	4.2	3.2	2.0	II	1350	C WALL	6.5	4.9	3.9	2.9
		8.0	5.6	4.4	2.8	III			8.3	6.1	4.9	3.7
		12.0	8.6	6.6	4.4	IV			12.3	8.9	7.3	5.5
		16.8	11.8	9.2	6.2	V			16.9	12.1	9.9	7.3
375	B WALL	6.2	4.2	3.2	2.0	II	1500	C WALL	6.7	4.9	4.1	3.1
		8.0	5.6	4.4	2.8	III			8.5	6.3	5.1	3.9
		12.2	8.6	6.8	4.4	IV			12.5	9.1	7.3	5.7
		17.0	12.0	9.4	6.2	V			16.9	12.3	9.9	7.5
450	B WALL	6.3	4.3	3.3	2.1	II	1650	C WALL	6.7	5.1	4.1	3.3
		8.1	5.7	4.5	2.9	III			8.5	6.3	5.3	4.1
		12.3	8.7	6.9	4.7	IV			12.5	9.3	7.5	5.9
		17.1	12.1	9.5	6.5	V			17.1	12.5	10.1	7.7
525	B WALL	6.2	4.4	3.4	2.2	II	1800	C WALL	6.8	5.2	4.2	3.2
		8.2	5.6	4.6	3.0	III			8.6	6.4	5.2	4.2
		12.4	8.6	7.0	4.8	IV			12.6	9.2	7.6	5.8
		17.4	12.0	9.6	6.6	V			17.0	12.4	10.0	7.8
600	C WALL	6.1	4.3	3.3	2.1	II	1950	C WALL	7.0	5.2	4.4	3.4
		7.9	5.5	4.5	3.1	III			8.6	6.6	5.4	4.4
		11.9	8.3	6.7	4.7	IV			12.6	9.4	7.6	6.0
		16.5	11.5	9.3	6.5	V			17.2	12.6	10.2	8.0
675	C WALL	6.2	4.4	3.4	2.4	II	2100	C WALL	7.0	5.4	4.6	3.6
		8.0	5.6	4.4	3.2	III			8.8	6.8	5.6	4.4
		12.0	8.4	6.8	4.8	IV			12.8	9.6	7.8	6.2
		16.6	11.6	9.4	6.6	V			17.2	12.8	10.4	8.2
750	C WALL	6.1	4.3	3.5	2.5	II	2400	C WALL	7.3	5.7	4.7	3.7
		7.9	5.7	4.5	3.3	III			8.9	6.9	5.7	4.7
		12.1	8.5	6.9	4.9	IV			12.9	9.9	8.1	6.5
		16.7	11.7	9.5	6.7	V			17.3	13.1	10.7	8.3
900	C WALL	6.2	4.4	3.6	2.6	II	2700	C WALL	7.4	5.8	5.0	4.0
		8.0	5.6	4.6	3.4	III			9.2	7.2	6.0	4.8
		12.0	8.6	6.8	5.0	IV			13.0	10.0	8.2	6.6
		16.6	11.8	9.4	6.8	V			17.4	13.2	10.8	8.6
1050	C WALL	6.4	4.6	3.8	2.6	II	3000	B WALL	7.7	6.1	5.1	4.1
		8.2	5.8	4.8	3.6	III			9.3	7.5	6.3	5.1
		12.2	8.8	7.0	5.2	IV			13.3	10.3	8.5	6.9
		16.8	12.0	9.6	7.0	V			17.7	13.7	11.1	8.9
1200	C WALL	6.4	4.8	3.8	2.8	II						
		8.2	6.0	5.0	3.6	III						
		12.2	8.8	7.2	5.4	IV						
		16.8	12.2	9.8	7.2	V						

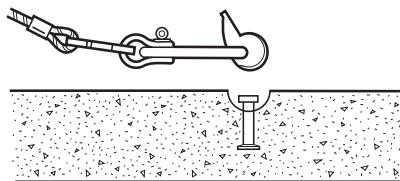
PIPE FILL HEIGHT TABLES

- NOTES
1. This Fill Height Table has been developed using the indirect design method.
 2. Pipe invert maximum depth values are intended as an estimating guide only. This table is not intended to replace engineered designs or to be used with unusual loading or soil conditions.
 3. Calculations are derived based on following parameters:
 - Soil density of 2100 kg/m³
 - Truck live load as per the CHBDC CSA S6; CL-625 TRUCK
 - Traffic direction across pipe
 - Positive projection embankment conditions
 - Pipes are completely full with fluid
 - Bedding types are defined by ASTM C1479
 4. Minimum of 1m soil fill above crown of pipe to surface (RIM elevation).
 5. Type 2 standard Installation is a common practice for pipe installation.
 6. Under certain conditions shallow cover installations may require a higher class of pipe.
 7. All class pipes conform to CSA A257.2 & ASTM C76.
 8. For depths greater than those shown for Class V, a direct design (SIDD) pipe should be used.

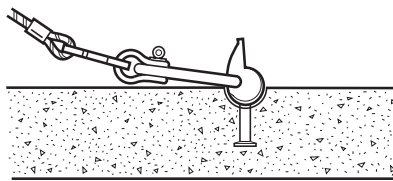


SWIFT LIFT PIN PROCEDURE

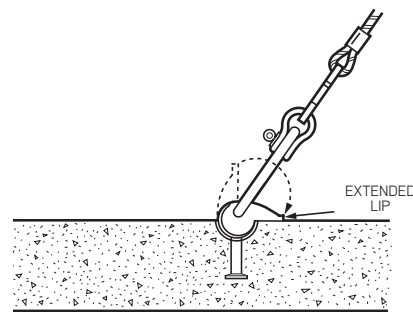
How to Guide



To install the P50 SL Universal Lifting Eye, hold the unit upside down with the T-shaped slot of the body directly over the head of the Swift Lift Anchor.



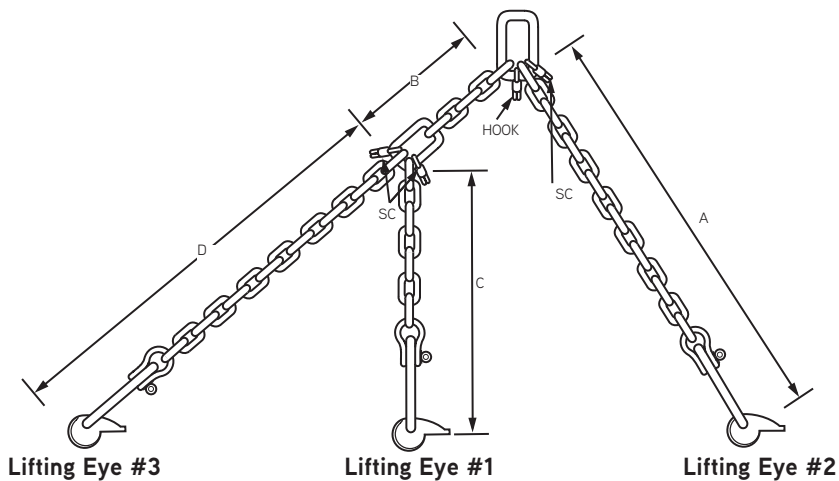
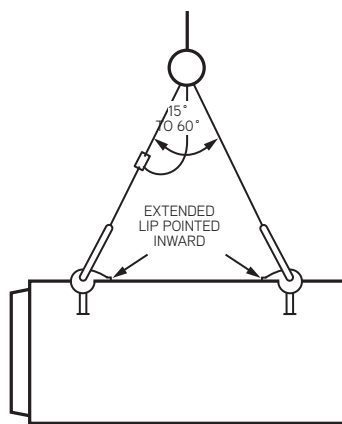
Lower the body of the lifting eye until the T-shaped slot engages the head of the anchor



Rotate the body until the extended lip rests on the concrete surface.

Correction Method for Lifting and Placing Pipe

Note: Load must be applied simultaneous to all Swift Lift anchors in order to safely lift product.



A three-legged chain sling with three P50 SL Universal Lifting Eyes and three shortening clutches (SC) for altering the chain lengths: so constructed that as required, a symmetrical or asymmetrical lifting sling can be made.

Pipe Lengths		A	B	C	D
From	To				
60" (1.5M)	96" (2.5M)	57" (144cm)	16" (40cm)	41" (104cm)	76" (194cm)
96" (2.5M)	138" (3.5M)	75" (190cm)	24" (60cm)	51" (130cm)	110" (280cm)

To learn more about Swift Lift Pin procedures, check out the Dayton Superior Precast Handbook



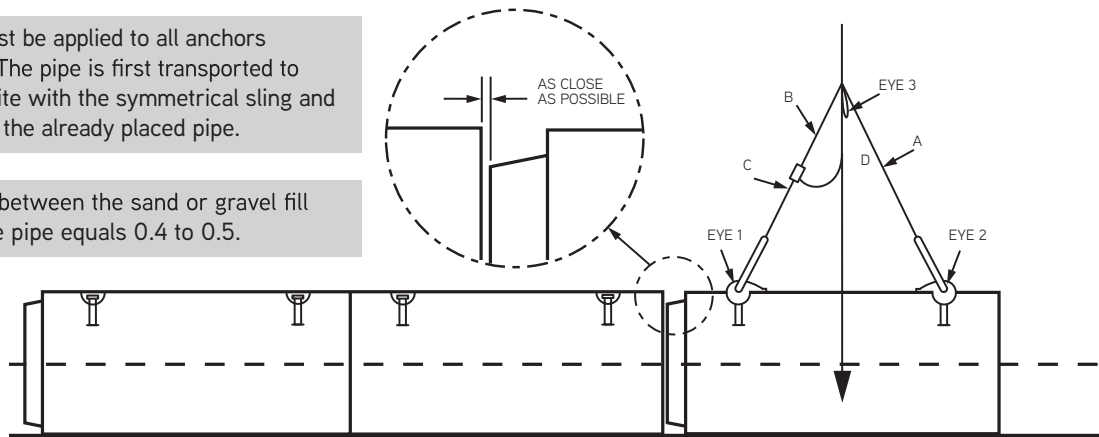
SWIFT LIFT PIN PROCEDURE

How to Use SL Universal Lifting Eye for Setting Concrete Pipe

Note: As with lifting any concrete element, special care should be taken by the driver of the placement vehicle to ensure that the impact or dynamic loads are reduced to a minimum. Impact of dynamic loads can greatly overload the anchors and cause failure.

Note: Load must be applied to all anchors simultaneously. The pipe is first transported to the installation site with the symmetrical sling and lowered close to the already placed pipe.

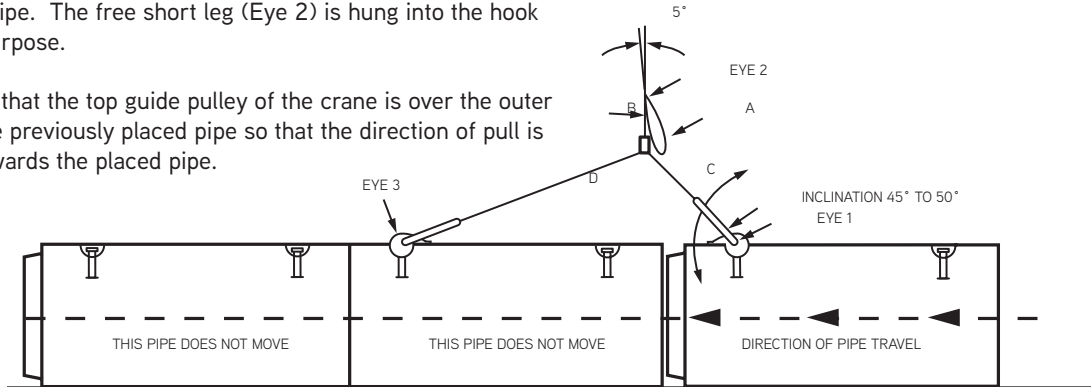
Note: Friction between the sand or gravel fill and the concrete pipe equals 0.4 to 0.5.



Correct Method for Pulling Pipe Together

To pull the pipe into position, the long leg of the lift sling is coupled to the previously placed pipe. The free short leg (Eye 2) is hung into the hook provided for this purpose.

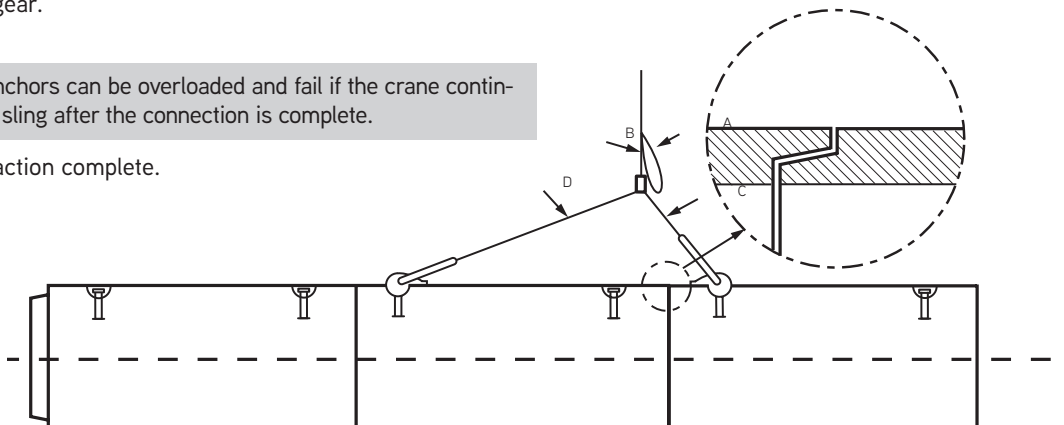
It must be ensured that the top guide pulley of the crane is over the outer lifting anchor of the previously placed pipe so that the direction of pull is slightly inclined towards the placed pipe.



Without moving the jib, the pipe is now pulled into position using the precision hoisting gear.

Warning: The anchors can be overloaded and fail if the crane continues to pull on the sling after the connection is complete.

Stop — release — action complete.



SUSTAINABILITY

Leading the way to net zero concrete

At Heidelberg Materials, we aim to be the industry leader on the path to net zero concrete. Our CO₂ reduction targets are grounded in science and underpinned by a clear roadmap. We are committed to achieving net zero concrete by 2050 using a multidimensional approach, focusing on four key strategies: Innovative Products & Technologies, Circular Economy, Carbon Capture Utilization & Storage and Natural Carbonation.

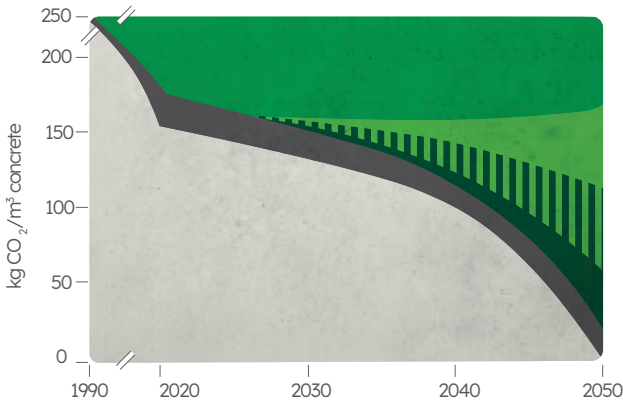
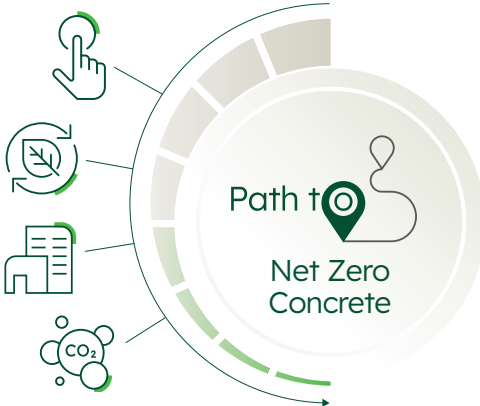
A multidimensional approach

Innovative
Products &
Technologies

Circular
Economy

Carbon
Capture
Utilization
& Storage

Natural
Carbonation



Heidelberg Materials recognizes that there is no silver bullet to achieving net zero concrete. Our multidimensional approach—which includes innovative products & technologies, circular economy, CCUS, and natural carbonation—is an effective strategy in making net zero concrete a reality.

Innovative products & technologies

Portland-Limestone Cement (PLC)



ecocem
PLC

EcoCem®PLC is a portland-limestone cement (GUL/Type IL) produced using ordinary clinker ground with limestone. Compared to General Use (GU) or ordinary portland cement (OPC), EcoCem®PLC provides up to a 10% reduction in CO₂ intensity without sacrificing performance. The GWP will vary by cement plant.

ecocem
PLUS

EcoCem®PLUS was developed by Heidelberg Materials in Edmonton, Alberta to reduce the carbon footprint of cement and concrete. EcoCem®PLUS (GULb) is a blended portland-limestone cement capable of reducing carbon intensity by over 20% while providing equal or better performance. EcoCem®PLUS is produced at the cement plant by inter-grinding clinker, Type F fly ash and limestone.

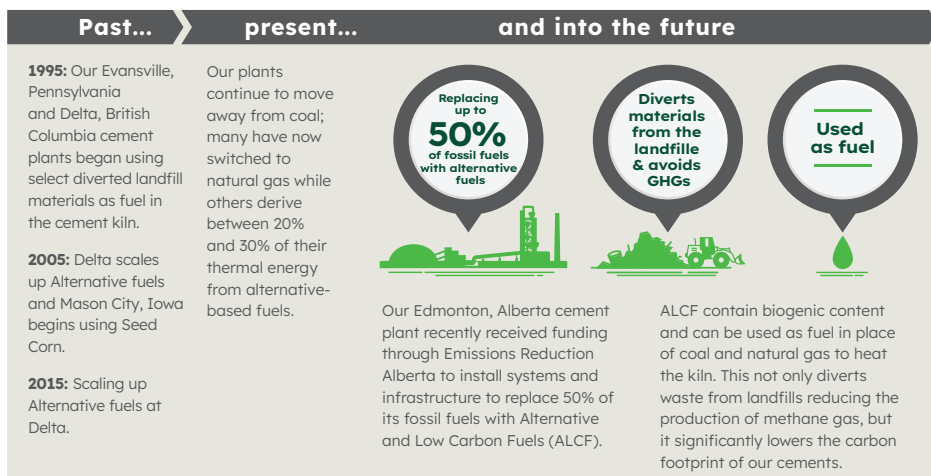
Global Warming Potential EcoCem®PLC
(kg of CO₂-eq/tonne of cement) **801**

Global Warming Potential EcoCem®PLUS
(kg of CO₂-eq/tonne of cement) **632**



Alternative fuels

Low carbon alternative fuels are predominantly comprised of materials that are typically sent to landfills like construction and demolition debris, wood, biosolids and others. This offsets the use of carbon-intensive fuels like coal and petroleum coke in the cement production process. The timeline below details the progression of alternative fuel use in several of our plants:



Circular economy

Beyond being a sustainable, resilient, and versatile building product, concrete is also 100% recyclable at end of life, in addition to its ability to incorporate and entrap other material constituents that may otherwise be considered waste. The added benefits of using byproducts in our value chain to further support the circular economy allows us to manufacture building products with recycled materials for your projects. A large part of our investments and research efforts are directed towards achieving this goal, exploring solutions that include the use of

materials historically destined for landfills, such as granulated blast furnace slag, landfilled ash, contaminated clays, as well as demolition concrete and excavation spoils.



CCUS

We recognize that cement is responsible for 5-7% of global emissions and represents a significant share of concrete's carbon footprint. That's why Heidelberg Materials is advancing carbon capture, utilization and storage (CCUS) solutions to enable large-scale CO₂ reductions—capturing emissions in a pure form for reuse or safe, permanent storage.

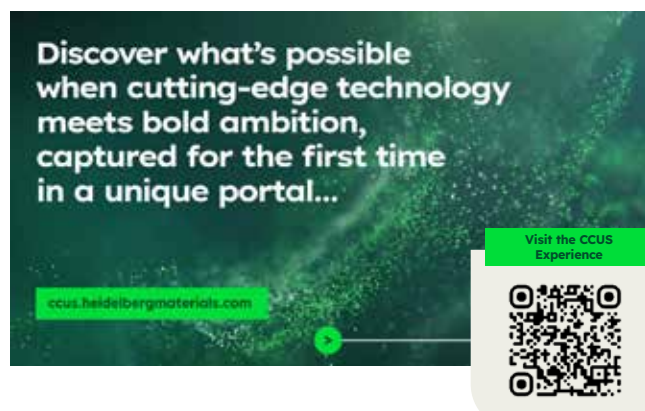
Through this approach, we are reshaping cement manufacturing by materially reducing its environmental impact and accelerating the transition to more sustainable construction.

In mid-June 2025, we officially inaugurated Brevik CCS in Norway—the world's first industrial-scale carbon capture and storage facility in the cement industry. This milestone demonstrates both the viability and scalability of CCUS in decarbonizing hard-to-abate sectors.

To explore this and what comes next, visit our CCUS Experience at ccus.heidelbergmaterials.com. This interactive microsite allows you to:

- Scroll through six immersive zones showcasing our groundbreaking CCUS work, each represented by a unique 3D environment
- Discover how cutting-edge technology and bold ambition are coming together to transform our industry

Explore what's possible as we bring carbon capture to life—today and in the years ahead.



1) Definitions.

- a) "Products" means concrete pipe, manholes and associated products.
- b) "Purchaser" means the individual or company placing an order to purchase Products.

2) Purchase of Products.

- a) The Quotation and these Terms and Conditions shall together constitute the purchase agreement ("Agreement"). The Agreement is the only agreement between the parties and supersedes all other agreements, representations, correspondence, undertakings or communications between the parties regarding the purchase of Products.

3) Quotation.

- a) Quotation quantities are approximate only, unit prices govern in all cases.
- b) Unit pricing contained in Quotation is contingent on the order of the entire quantity contained in Quotation.
- c) Material quoted is an estimate based on information provided by Purchaser at time of quotation. If revised plans or drawings are submitted after winning bid, job repricing may be required.
- d) Contractor to review all items to ensure completeness. Seller is not responsible for missed items.
- e) Any additional items or change in quantity will need to be requested by Seller.
- f) Non-inventory or custom/special items are subject to approval of shop drawings, which may result in price changes.
- g) Frames, covers, hatches and other internal/external hardware to be supplied by others unless specifically quoted herein.
- h) Lifting clutches are not included in quote unless specifically quoted herein.
- i) Production and delivery schedule will be determined upon receipt of purchase order.
- j) Quotation does not include Federal or Provincial taxes.
- k) Seller reserves the right to reprice in the event of partial orders.

4) Quotation Validity.

- a) Unless otherwise agreed to by the parties in writing, the prices in the Quotation are valid for 14 days from the date of the Quotation. Seller may, in its sole discretion, increase the price of, or decline to deliver, the Products identified in this Quotation after such date.
- b) Acceptance of the Quotation by the Purchaser does not obligate the Seller until Purchaser's credit has been approved by our Credit Department.

5) Cartage Rates and Additional Surcharges.

- a) Cartage rates are based on a minimum truck load of 27,000 kilograms and do not apply during periods of road restrictions/bans. Delivery charges for truckloads of less than 27,000 kilograms shall be calculated at an hourly rate and shall include loading, traveling, and unloading time.
- b) Cartage is quoted as an approximate and may change due to size of load, the delivery location and/or other special delivery requests by the Purchaser.
- c) A surcharge will be added for a delivery requiring a wide load permit and/or pilot vehicles.
- d) A surcharge of \$125/hour will be added if the Purchaser has not unloaded the truck within one hour of the truck's arrival at the destination specified. The price is subject to change at the discretion of Heidelberg Materials.

- e) A surcharge will be added if the Purchaser does not unload a delivery in its entirety at the destination specified.
- f) Fuel surcharges may be added to each delivery depending on fuel prices. Fuel surcharge amount will be determined solely by Seller and based on fuel prices on the Kalibrate website (charting.kalibrate.com) on the day of delivery.
- g) Dunnage shall be charged at \$20 each individual unit of dunnage supplied if requested by the Purchaser.
- h) \$25 deposit on all pallets used for grade rings and prebenches. Deposit money to be refunded if pallets are returned in reusable condition as determined solely by the Seller.

6) Delivery Conditions.

- a) Purchaser shall schedule all deliveries directly with the Seller. Purchaser shall provide a minimum of 24 hours' notice. More notice may be required due to truck availability during peak times.
- b) Delivered prices are for delivery to the destination specified by the Purchaser (FOB Jobsite).
- c) Purchaser is responsible to provide Seller with safe and reasonable access for Seller's delivery truck to deliver Products. Seller reserves the right to stop deliveries until Purchaser provides such access.
- d) In the event Seller requires access over curbs, sidewalks, driveways or other property, Seller shall not be responsible for any loss, cost or damage in connection therewith. Purchaser waives all claims against Seller and shall indemnify and save the Seller harmless and against any and all losses, damages, expenses, liabilities, claims, suits and demands of whatever nature (including legal fees on a solicitor and client basis) suffered or incurred by Seller and resulting from such access.
- e) Purchaser shall be responsible to provide suitable access roads to destination specified and will be responsible for all unloading and all equipment needed for such unloading.

7) Payment Terms.

- a) Full payment is due on the 25th day of the month following the Purchaser pick-up or delivery of Products.
- b) Prices exclude applicable taxes, fees, duties and surcharges. Purchaser is solely responsible for the payment of such amounts.
- c) Unless otherwise stated, prices are in Canadian Dollars.
- d) Purchaser shall pay all fees, expenses and disbursements (including legal fees on a solicitor and his own client basis) incurred by Seller in connection with collecting any overdue accounts.
- e) Seller reserves the right at any time to require the Purchaser to post adequate security, and to discontinue the supply of Products in the absence of such security, in its sole discretion.
- f) All purchases by Purchaser pursuant to this Quotation require payment in advance unless Seller has entered into a written credit agreement with Purchaser. In the event Purchaser makes payment with a cheque, and such cheque, upon presentation, is not promptly negotiated by Purchaser's bank, Purchaser shall immediately make payment using a certified cheque. Purchaser shall also pay a service charge of \$25.00 for any cheque that is not negotiated by Purchaser's bank promptly upon presentation. Purchaser shall pay Seller interest on all amounts not paid when due at a rate of 2.0% per month (24% per annum). Invoice shall be deemed correct unless Purchaser notifies Seller in writing of any errors within 30 days from the date of such invoice. Purchaser's payments shall be applied first against any outstanding interest charges, next against any service charges and then to the outstanding principle in the invoice.

- g) If Purchaser defaults or if Seller considers Purchaser's financial responsibility impaired or unsatisfactory, Seller shall be entitled to suspend or terminate, in whole or in part, any order or agreement until all outstanding payments are made and/or acceptable assurances or security is provided by Purchaser.
- h) All Products approved for fabrication must be taken no later than 12 months from fabrication. Products NOT taken prior to the due date shall be subject to per diem storage charges.
- 8) Availability of Products.** The quantities of the Products stated in this Quotation are for the sole purpose of identifying the estimated total quantities and price of the Products expected to be delivered by Seller to Purchaser and are not intended to constitute a commitment by Purchaser to purchase, or Seller to deliver, the stated quantities of the Products (or another quantity or Products sufficient to meet Purchaser's requirements) to Purchaser. Although Seller will make reasonable efforts to deliver Products in accordance with Purchaser's schedule, Seller's ability to actually deliver the amount of the Products stated in Seller's invoices to Purchaser is subject to the availability of the Products (which availability might be limited for reasons both within and outside of Seller's control, including, without limitation, those set forth in Section 9).
- 9) Force Majeure.** Seller shall not be considered in default in the performance of its obligations hereunder if such performance is prevented or delayed because of an act of God, lack of availability of raw materials or Products, equipment or facility failures, war, blockade, embargo, hostilities, revolution, civil commotion, strike or lockout, labor dispute, epidemic, fire, wind, earthquake or flood, severe weather, traffic delays, delays of third parties or because of any law, order, proclamation, regulation or ordinance of any government, or for any other cause, whether similar or dissimilar to those enumerated, beyond the reasonable control of Seller. If Seller's performance is prevented or delayed Seller shall have the right to prorate among its various customers such Products as it may be able to manufacture and deliver.
- 10) Products Specifications and Warranty.** Products shall conform to their respective ASTM and/or CSA specifications as declared in the manufacturer's certificate of compliance, submittal documents or shop drawings. The seller does not warrant compliance with any other codes and/or specifications that are not explicitly declared. Seller expressly warrants the title to the Products and, except as provided in this section, Seller makes no representation or warranty whatsoever with respect to the Products, express or implied (whether written, oral, statutory or arising by previous course of dealing or usage of trade) including merchantability and fitness for a particular purpose, and Seller hereby disclaims all such other representations and warranties to the maximum extent permitted by applicable law.
- 11) Indemnity.** The Purchaser shall indemnify, hold harmless and defend Seller, its employees, contractors, and representatives from and against any and all losses, damages, expenses, liabilities, claims, suits and demands of whatever nature (including legal fees and expenses on a solicitor and client basis) suffered or incurred by Seller and resulting from any and all claims, suits or demands made against Seller by any other person arising out of or in connection with Purchaser's resale of the Products purchased from Seller, unless and to the extent attributable to any negligence or breach of this Agreement by Seller of the terms and conditions herein.
- 12) Limitation of Liability.** Notwithstanding any other provisions of this Agreement, Seller shall not be liable to the Purchaser whether due to breach of contract, negligence, warranty, strict liability or otherwise, for any special, indirect or consequential damages, or for any loss of profits, loss of revenue or loss of anticipated business suffered or incurred by the Purchaser. Seller's liability to a Purchaser in relation to this Agreement, whether due to breach of contract, negligence, warranty, strict liability or otherwise, is strictly limited to the replacement of the Products or a refund of the purchase price for the order of Products in question. Seller having no control over the use of the Products will not guarantee finished work, nor shall Seller be responsible for the condition of the Products after delivery to Purchaser.
- 13) Limitation of Actions.** Purchaser is responsible for inspection of the Products upon delivery. Notwithstanding any other provisions in this Agreement, no suit or claim based on any cause of action whatsoever arising out of or in any way connected with this Agreement or the Products may be brought by the Purchaser, or any party claiming through the Purchaser, more than 60 days after receipt of the Products. Claims for loss or damage in transit must be reported to Seller within 24 hours of delivery of Product to the destination specified and must be supported by customer's notation on truck delivery receipt and/or bill of lading.
- 14) Use of Products.** Purchaser's use of the Products is at its own risk and the Purchaser shall indemnify and save Seller harmless from any and all losses, damages, expenses, liabilities, claims, suits and demands of whatever nature (including legal fees and expenses on a solicitor and client basis) suffered or incurred by Seller arising out of, or relating to the Purchaser's control, use, possession, transportation or ownership of the Products.
- 15) Title and Risk of Loss.** Title and risk of loss to the Products shall pass to Purchaser on Purchaser's pick-up at Seller's premises. Title and risk of loss to Products delivered shall pass to Purchaser on delivery at the destination specified.
- 16) Waiver.** No waiver of any provision of the Agreement shall be binding unless given in writing and signed by an authorized officer of the party to be bound thereby.
- 17) Governing Law.** This Agreement shall be interpreted under and governed by the laws of the Province where the Products are delivered and the federal laws of Canada applicable therein.
- 18) Arbitration.** If any dispute arises between the parties pursuant to this Agreement such dispute shall be resolved by a sole arbitrator pursuant to the provisions of the Arbitration Act of the Province where the Products are delivered.
- 19) Builder's Lien.** For the purposes of the Builder's Lien Act Products not herein quoted but delivered or supplied to the same project shall be considered part of the same contract until last date of delivery or supply notwithstanding separate purchase orders.
- 20) Product Return.** Purchaser may return any standard Product to Seller's premises provided:
- such Product is in good and resalable condition.
 - Purchaser pays Seller a restocking fee of 15% of the price of the Product. Restocking fee may be increased based on condition of the returned product.
 - Product is returned to Seller on or before six months from the date of the original pick-up from Seller's premises or delivery to the destination specified.
 - Custom and non-standard Products including but not limited to manhole and catch basin barrels with custom holes, radius pipe, pipe larger than 1200mm, custom slab tops, bends, wyes, tees and specialty cast in components will not be refunded.
 - Custom or non-standard Products returned will not receive credit and be subject to a disposal fee of \$55.00 per tonne charged by Seller to Purchaser.
 - Custom and non-standard Products remaining on completed orders will be invoiced to the Purchaser and can either be picked-up by Purchaser (FOB Seller's Plant) or will be subject to a disposal fee of \$55.00 per tonne.
 - Any surcharges charged will not be refunded on returned items.

QUALITY PROGRAM

Heidelberg Materials Northwest Pipe is certified to produce precast circular concrete pipe, circular manholes, catch basins and box sections under the Canadian Precast Concrete Quality Assurance (CPCQA) Certification Program.

The purpose of the CPCQA is to provide assurance to owners, specifiers, and contractors that participating CPCA certified plants are capable of producing precast products in accordance with recognized national standards and other best practices. The program audits a plant's quality management system, personnel, equipment, and finished products to ensure they conform to the required standards. The program requires manufacturers to supply products only from a production facility that has been prequalified to produce a range of products that have passed CPCQA's rigorous certification process. This range of products is updated in real time, and can be seen by anyone concerned on the CPCQA website. The program involves no additional cost to anyone except the CPCQA certified manufacturers who pay all certification fees. Overall, this certification program ensures that only established producers who have earned a reputation for their superior workmanship and systems are supplying products to the public. The program helps to ensure that the job will get done right the first time – saving time, money, and headaches for everyone.

In addition to the CPCQA plant certifications, our Vancouver plant is certified under:

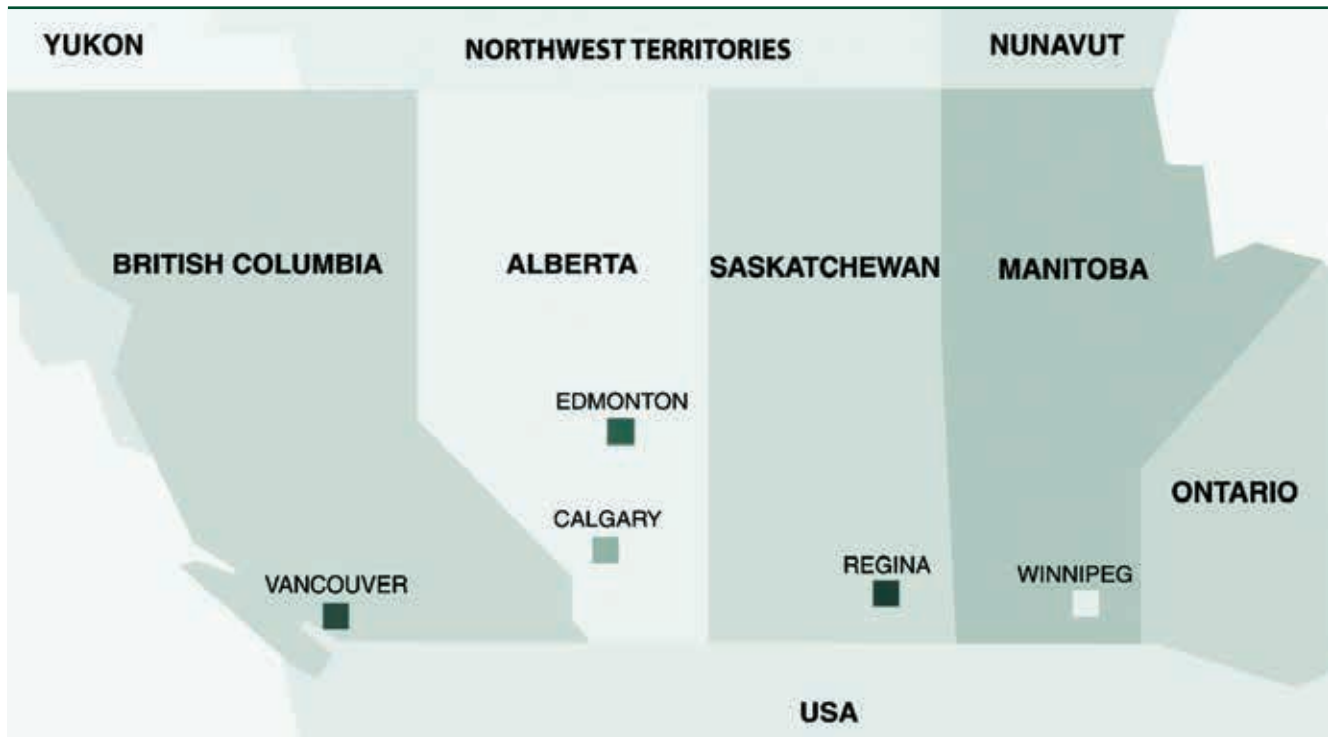
- NPCA Plant Certification

To identify if products are produced in a CPCQA certified plant, look for the following stamp.



For more
information about
the CPCQA program
please visit:





BRITISH COLUMBIA

9265 Oak Street
Vancouver, BC V6P 4B8
Main Line 604-269-6700

SOUTHERN ALBERTA

7336 112th Avenue NW
Calgary, AB T3R 1R8
Main Line 403-279-5531

NORTHERN ALBERTA

SALES OFFICE
16503 - 121A Avenue
Edmonton, AB T5V 1J1

PIPE YARD

13325 - 170 Street
Edmonton, AB T5V 1M3
Main Line 780-448-1351

SASKATCHEWAN

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MANITOBA

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