

HEIDELBERGCEMENTGroup


## ABOUT INLAND

Inland roots in the Winnipeg area date back to the early 1960's. Over time, through a number of mergers and acquisitions Inland Pipe is now part of the Lehigh Hanson group in North America and part of the world-wide HeidelbergCement Group.

HeidelbergCement is the global market leader in aggregates and a prominent player in the fields of cement, concrete and other downstream activities, making it one of the world's largest manufacturers of building materials. The company employs some 52,000 people at 2,500 locations in more than 40 countries.

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Notes:

- All concrete products within this catalogue are manufactured using sulphate resistant (HS or HSb) cement as per CSA A3000.
- Applicable taxes and freight charges are extra.
- Prices effective April 1, 2021.
- Restocking fees are $15 \%$ for returned undamaged stock items. Cancelled 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 this catalogue are intended as an estimating guide and are subject to change. Detailed quotations are available upon request.
- Cast-in fixtures and appurtenances, other than swift lifts, are subject to approval by design Engineer and extra costs will apply.


## INLAND

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## Terms \& Conditions

## TERMS AND CONDITIONS OF SALE

## This price list supercedes all previous lists.

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. 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. 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 January 31 of the following year. Products NOT taken prior to the due date will be subject to per diem storage following
charges.
4. Additional Surcharges.
(a) A surcharge will be added for a delivery requiring a wide load permit and pilot vehicles. (b) A surcharge of $\$ 100 /$ hour will be added if the Purchaser has not unloaded the truck within one hour of the truck's arrival at the destination specified.
(c) A surcharge will be added if the Purchaser does not unload a delivery in its entirety at the destination specified.
5. 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 6).
6. 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 to prorate an
and deliver.
7. Delivery Conditions.
(a) Purchaser shall schedule all deliveries directly with the Seller. Purchaser shall provide a minimum of 24 hours' notice.
(b) 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.
(c) Delivered prices are for delivery to the destination specified.
(d) Purchaser shall be responsible to provide suitable access roads to destination specified as well as equipment to unload the Products.
(e) 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.
8. Unloading. Purchaser will be responsible for unloading the Products at the destination specified.
9. Products Specifications and Warranty. Products shall conform to present standard specifications (for the respective Products) of CSA and/or ASTM. 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.
10. 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.
11. 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 work, nor
Purchaser.
12. 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
13. 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.
14. 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.
15. 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.
16. 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
17. 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 is delivered
18. Term of Agreement. Unless otherwise agreed to by the parties in writing, the prices in the Quotation are valid for the period of time set out in the Quotation 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.
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:
(a) such Product is in good condition;
(b) Purchaser pays Seller a restocking fee of $15 \%$ of the price of the Product; and (c) such 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 1200 mm , custom slab tops, bends, wyes, tees and specialty cast in components will not be refunded. Custom or nonstandard Products returned will not receive credit and be subject to a disposal fee of $\$ 20.00$ 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 $\$ 20.00$ per tonne.
21. Freight Rates. Freight rates are based on a minimum truck load of 27,000 kilograms and do not apply during periods of road restrictions. Delivery charges for truckloads of less than 27,000 kilograms shall be calculated at an hourly rate as described in the Freight Guidelines outlined in Seller's catalogue and shall include loading, traveling and unloading time.

## Canadian Precast Concrete Quality Assurance Certification (CPCQA Certification)

A
This stamp means Quality. It signifies that your precast concrete drainage product has met the stringent demands of the CPCQA Certification.

The INLAND PIPE LIMITED Winnipeg Plant has achieved and maintained its Prequalification since 2002. Inland Pipe is currently certified to provide precast concrete pipe, manholes and box sections under the program.

## What does Prequalification mean?

Owners of infrastructure projects, who purchase precast concrete drainage products from prequalified plants, receive products that have been tested for quality through the manufacturing process and inspected upon completion. Concrete drainage products supplied from a prequalified plant comply with the requirements of the latest editions of CSA standards for concrete pipe, CAN/CSA A257.1, A257.2, A257.3, A257.4, ASTM C507M, and OPSS 1351.

## ACHIEVING AND MAINTAINING PREQUALIFICATION:

A consultant engineer is retained to carry out an independent inspection of the applicant's plant and product. Samples of products are tested and the engineer submits a detailed report to the third party consultant. The report to the Chair states a compliance, or noncompliance with the prequalification requirements, together with a recommendation. The Chair issues the Prequalification Certificate.

The Certificate states the Product to which the prequalification applies and is normally valid for 12 months after the date of issue.

Each year, plants are inspected by the engineer who checks and tests to ascertain whether or not quality control and the standard of workmanship is being maintained at a satisfactory level. Every third year, the engineer undertakes detailed inspection and testing, and submits a report comparable to the original inspection for prequalification.

Quality control personnel within the precast concrete manufacturing facilities receive regular training, provided by the manufacturer, to ensure the quality control processes are performed correctly by the staff, and the information gathered is analyzed and maintained in accordance with the program.

## Bell \& Spigot Pipe ASTM C76



Notes: 1) All prices shown are \$ per metre.
2) To convert to $\$$ per foot, multiply $\$$ per metre by 0.305
3) $750 \mathrm{~mm} \& 900 \mathrm{~mm}$ diameter pipe are not stocked items.
4) All pipe manufactured with Type HS(50) high sulphate-resistant hydraulic cement.
5) Gaskets / Kent seal not included.


## Straight Wall Pipe ASTM C76



Notes: 1) All prices shown are $\$$ per metre.
2) To convert to $\$$ per foot, multiply $\$$ per metre by 0.305
3) 750 mm \& larger diameter pipe are not stocked items.
4) All pipe manufactured with Type $\mathrm{HS}(50)$ high sulphate-resistant hydraulic cement.
5) Gaskets / Kent seal not included.
6) Pricing for bends and junctions available upon request.
7) Prices are provided as a guide for estimating and are subject to change without notice.
8) All products are prequalified under the CPCQA Certification.
9) Pipe 1050 mm \& larger come with swift lift.
10) Banding prices are available upon request.
11) Pricing for pipe larger than 2700 mm available upon request.


## Manhole Sizing

|  | MAXIMUM PIPE SIZE FOR | MAXIMUM PIPE SIZE |
| :---: | :---: | :---: |
|  | STRAIGHT THROUGH | FOR RIGHT ANGLE |
|  | INSTALLATION | INSTALLATION |
| 1200 |  |  |
|  | COW spec max for 1200 mm - 525 mm pipe |  |
| 1500 |  |  |
|  |  |  |

1800


2100


## Manhole Sizing

## MAXIMUM PIPE SIZE FOR STRAIGHT THROUGH INSTALLATION

## MAXIMUM PIPE SIZE FOR RIGHT ANGLE INSTALLATION

2400


2700


1200


## Manhole Material

| BASE SECTIONS FOR JUNCTIONS UP TO 525mm | TYPE | WEIGHT <br> kg/ea | PRICE per <br> section $\$$ |
| :--- | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \times 1.83 \mathrm{~m}$ Riser | A | 2408 |  |
| $1200 \mathrm{~mm} \times 1.83 \mathrm{~m}$ Base | A1 | 2979 |  |
| $1200 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Riser | A | 1605 |  |
| $1200 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Base | A1 | 2176 |  |
| $1200 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Riser | A | 1210 |  |
| $1200 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Base | A1 | 1781 |  |
| $1200 \mathrm{~mm} \times 0.61 \mathrm{~m}$ Riser | A | 803 |  |
| $1200 \mathrm{~mm} \times 0.61 \mathrm{~m}$ Base | A1 | 1374 |  |
| $1200 \mathrm{~mm} \times 0.46$ Riser | A | 605 |  |
| $1200 \mathrm{~mm} \times 0.46 \mathrm{~m}$ Base | A1 | 1176 |  |
| $1200 \mathrm{~mm} \times 0.31$ Riser | A | 408 |  |


| REDUCERS | WEIGHT | PRICE <br> \$/ea |
| :--- | :---: | :---: |
| $1200 \mathrm{~mm} / 750 \mathrm{~mm} \times 0.31 \mathrm{~m}$ Reducer |  | 690 |
| $1200 \mathrm{~mm} / 900 \mathrm{~mm} \times 0.31 \mathrm{~m}$ Reducer |  | 740 |


| PIPE MANHOLES FOR 600 mm to 2100 mm DIAMETER PIPE | TYPE | WEIGHT kg/ea |  |
| :---: | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \mathrm{X} \mathrm{1.83m} \mathrm{Pipe} \mathrm{Manhole}$ | B | 3540 | Call for pricing |
| 1500 mm X 1.83 m Pipe Manhole | B | 4570 | Call for pricing |
| 1800 mm X 1.83m Pipe Manhole | C | 5870 | Call for pricing |
| $2100 \mathrm{~mm} \mathrm{X} \mathrm{1.83m} \mathrm{Pipe} \mathrm{Manhole}$ | C | 7840 | Call for pricing |


|  | MANHOLE RISER SECTIONS | WEIGHT <br> $\mathrm{kg} / \mathrm{ea}$ |
| :--- | :---: | :---: |
| $750 \mathrm{~mm} \times 1.83 \mathrm{~m}$ Riser | 1067 | PRICE <br> \$/ea |
| $750 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Riser | 711 |  |
| $750 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Riser | 536 |  |
| $750 \mathrm{~mm} \times 0.61 \mathrm{~m}$ Riser | 356 |  |
| $750 \mathrm{~mm} \times 0.46 \mathrm{~m}$ Riser | 268 |  |
| $750 \mathrm{~mm} \times 0.31 \mathrm{~m}$ Riser | 181 |  |
| $750 \mathrm{~mm} \times 0.15 \mathrm{~m}$ Riser | 87 |  |
| $900 \mathrm{~mm} \times 1.83 \mathrm{~m}$ Riser | 1460 |  |
| $900 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Riser | 973 |  |
| $900 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Riser | 734 |  |
| $900 \mathrm{~mm} \times 0.61 \mathrm{~m}$ Riser | 487 |  |
| $900 \mathrm{~mm} \times 0.46 \mathrm{~m}$ Riser | 367 |  |
| $900 \mathrm{~mm} \times 0.31 \mathrm{~m}$ Riser | 247 |  |
| $900 \mathrm{~mm} \times 0.15 \mathrm{~m}$ Riser | 120 |  |

Notes: 1) SPECIAL MH'S AND / OR COMPONENTS AVAILABLE UPON REQUEST
2) Gaskets / kent seal NOT included.
3) Precast MH's manufactured to ASTM C478.
4) Prices are provided as a guide for estimating and are subject to change without notice.
5) All manholes and components are manufactured with Type HS(50) high sulphate-resistant hydraulic cement.

## Manhole Material

Estimation Table

| BASE SECTIONS WITH FLOOR |  |  |  |  |  | RISERS \& REDUCER |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1200 mm STANDARD MH |  |  |  | $\begin{aligned} & \text { PRICE } \\ & \text { \$/EA } \end{aligned}$ |  |  |  |  |  |  |  |  |  | $\stackrel{\sqrt{1}}{\square}$ |
| TYPE A1 c/w 1200 RISERS |  |  |  | HEIGHT <br> (m) | $\underset{\sim}{\underset{\sim}{~}}$ | $\underset{\sim}{\infty}$ | $\underset{\sim}{\text { ิ }}$ | N్ర | $\overline{0}$ | ¢ | $\stackrel{\square}{0}$ | 둥 | $\stackrel{\Gamma}{\vdots}$ | セ |
| DEPTH <br> m | RISER <br> m | BASE <br> COST | RISER COST | $\begin{aligned} & \text { TOTAL } \\ & \text { COST } \end{aligned}$ | $\begin{aligned} & \star \\ & \stackrel{\star}{\mathrm{N}} \end{aligned}$ | $\begin{aligned} & \stackrel{\times}{\bar{N}} \end{aligned}$ | $\begin{aligned} & \stackrel{*}{ㄹ} \\ & \end{aligned}$ | $\begin{aligned} & \stackrel{\times}{\mathbf{N}} \\ & \end{aligned}$ | ※ | + | $\stackrel{\times}{\text { - }}$ | $\begin{aligned} & x \\ & \stackrel{\rightharpoonup}{9} \\ & \stackrel{\rightharpoonup}{3} \\ & \stackrel{\rightharpoonup}{\mathbf{N}} \end{aligned}$ | $\begin{aligned} & \times \\ & \stackrel{x}{\wedge} \end{aligned}$ |  |
| 1.910 | 0.310 | \$1,412.06 | \$971.79 | \$2,383.85 | 1 |  |  |  |  |  |  | 1 | 1 | 1 |
| 2.070 | 0.610 | \$1,412.06 | \$1,119.46 | \$2,531.52 | 1 |  |  |  |  |  |  | 1 | 2 | 1 |
| 2.220 | 0.770 | \$1,412.06 | \$1,452.46 | \$2,864.52 | 1 |  |  |  |  |  | 1 | 1 | 1 | 1 |
| 2.370 | 0.920 | \$1,412.06 | \$1,648.68 | \$3,060.74 | 1 |  |  |  |  | 1 |  | 1 | 1 | 1 |
| 2.520 | 1.070 | \$1,412.06 | \$1,844.19 | \$3,256.25 | 1 |  |  |  | 1 |  |  | 1 | 1 | 1 |
| 2.680 | 1.230 | \$1,412.06 | \$1,991.86 | \$3,403.92 | 1 |  |  |  | 1 |  |  | 1 | 2 | 1 |
| 2.830 | 1.380 | \$1,412.06 | \$1,950.33 | \$3,362.39 | 1 |  |  | 1 |  |  |  | 1 | 1 | 1 |
| 2.980 | 1.530 | \$1,412.06 | \$2,098.00 | \$3,510.06 | 1 |  |  | 1 |  |  |  | 1 | 2 | 1 |
| 3.130 | 1.680 | \$1,412.06 | \$2,194.50 | \$3,606.56 | 1 |  | 1 |  |  |  |  | 1 | 1 | 1 |
| 3.290 | 1.840 | \$1,412.06 | \$2,342.17 | \$3,754.23 | 1 |  | 1 |  |  |  |  | 1 | 2 | 1 |
| 3.440 | 1.990 | \$1,412.06 | \$2,675.17 | \$4,087.23 | 1 |  | 1 |  |  |  | 1 | 1 | 1 | 1 |
| 3.590 | 2.140 | \$1,412.06 | \$2,871.39 | \$4,283.45 | 1 |  | 1 |  |  | 1 |  | 1 | 1 | 1 |
| 3.740 | 2.290 | \$1,412.06 | \$2,808.52 | \$4,220.58 | 1 | 1 |  |  |  |  |  | 1 | 1 | 1 |
| 3.900 | 2.450 | \$1,412.06 | \$2,956.19 | \$4,368.25 | 1 | 1 |  |  |  |  |  | 1 | 2 | 1 |
| 4.050 | 2.600 | \$1,412.06 | \$3,289.19 | \$4,701.25 | 1 | 1 |  |  |  |  | 1 | 1 | 1 | 1 |
| 4.210 | 2.760 | \$1,412.06 | \$3,485.41 | \$4,897.47 | 1 | 1 |  |  |  | 1 |  | 1 | 1 | 1 |
| 4.350 | 2.900 | \$1,412.06 | \$3,680.92 | \$5,092.98 | 1 | 1 |  |  | 1 |  |  | 1 | 1 | 1 |
| 4.510 | 3.060 | \$1,412.06 | \$3,828.59 | \$5,240.65 | 1 | 1 |  |  | 1 |  |  | 1 | 2 | 1 |
| 4.660 | 3.210 | \$1,412.06 | \$3,787.06 | \$5,199.12 | 1 | 1 |  | 1 |  |  |  | 1 | 1 | 1 |
| 4.810 | 3.360 | \$1,412.06 | \$3,934.73 | \$5,346.79 | 1 | 1 |  | 1 |  |  |  | 1 | 2 | 1 |
| 4.970 | 3.520 | \$1,412.06 | \$4,031.23 | \$5,443.29 | 1 | 1 | 1 |  |  |  |  | 1 | 1 | 1 |
| 5.120 | 3.670 | \$1,412.06 | \$4,178.90 | \$5,590.96 | 1 | 1 | 1 |  |  |  |  | 1 | 2 | 1 |
| 5.270 | 3.820 | \$1,412.06 | \$4,511.90 | \$5,923.96 | 1 | 1 | 1 |  |  |  | 1 | 1 | 1 | 1 |
| 5.420 | 3.970 | \$1,412.06 | \$4,708.12 | \$6,120.18 | 1 | 1 | 1 |  |  | 1 |  | 1 | 1 | 1 |
| 5.570 | 4.120 | \$1,412.06 | \$4,645.25 | \$6,057.31 | 1 | 2 |  |  |  |  |  | 1 | 1 | 1 |
| 5.730 | 4.280 | \$1,412.06 | \$4,792.92 | \$6,204.98 | 1 | 2 |  |  |  |  |  | 1 | 2 | 1 |
| 5.880 | 4.430 | \$1,412.06 | \$5,125.92 | \$6,537.98 | 1 | 2 |  |  |  |  | 1 | 1 | 1 | 1 |

Notes: 1) Total cost does not include kent seal, gaskets or the frame and cover.
2) Prices are provided as a guide for estimating and are subject to change without notice. ALL TAXES ARE EXTRA.

## Manhole Material ASTM C478 - Prebench

| LARGEST NOMINAL PIPE DIAMETER (mm) | EFFECTIVE HEIGHT ABOVE LOW INVERT (mm) | PRODUCT DESCRIPTION | WEIGHT kg/ea | PRICE PER SECTION |
| :---: | :---: | :---: | :---: | :---: |
| 150 | 670 | $1200 \mathrm{~mm} \times 150 \mathrm{~mm}$ Prebench | 2230 |  |
| 200 | 690 | $1200 \mathrm{~mm} \times 200 \mathrm{~mm}$ Prebench | 2230 |  |
| 250 | 720 | $1200 \mathrm{~mm} \times 250 \mathrm{~mm}$ Prebench | 2230 |  |
| 300 | 745 | $1200 \mathrm{~mm} \times 300 \mathrm{~mm}$ Prebench | 2360 |  |
| 375 | 780 | 1200mm x 375mm Prebench | 2360 |  |
| 450 | 820 | $1200 \mathrm{~mm} \times 450 \mathrm{~mm}$ Prebench | 3325 |  |
| 525 | 860 | $1200 \mathrm{~mm} \times 525 \mathrm{~mm}$ Prebench | 3325 |  |
| 600 | 900 | $1200 \mathrm{~mm} \times 600 \mathrm{~mm}$ Prebench | 3400 |  |
| DESCRIPTION |  |  |  | PRICE PER SECTION |
| 150mm KWIK Seal Boot |  |  |  |  |
| 200mm KWIK Seal Boot |  |  |  |  |
| 250mm KWIK Seal Boot |  |  |  |  |
| 300mm KWIK Seal Boot |  |  |  |  |
| 375mm KWIK Seal Boot |  |  |  |  |
| 450mm KWIK Seal Boot |  |  |  |  |

- Prebenched bases are made to order and require approved drawings or manhole order forms before manufacturing.
- Standard Base: Four (4) pipe penetrations or less and standard $1 \%$ slope.
- Special Base: Five (5) or more pipe penetrations, or not standard slope, or special pipe holes required.
- 600mm Prebenched base only available for straight through configurations
- Monobases are available and come without any pipe openings.
- Weights given in this table are conservative etimates
- Prebench pricing does not include boots.


SECTION VIEW


TOP VIEW

## Manhole Material Type A Manhole




(A) | ELEVATION VIEW |
| ---: | :--- |
| TYPE A AND A1 |
| STANDARD PRECAST MANHOLE |
| SD - 010 |
| (FOR UP TO 525 DIAMETER PIPE) |

## Manhole Material Type B Manhole



## NOTES :

FOR 600 TO 900 DIAMETER SEWERS, USE A 1200 DIAMETER X 1800 LONG MANHOLE BASE

FOR 1050 TO 1500 DIAMETER SEWERS, USE A 1500 DIAMETER X 1800 LONG MANHOLE BASE

PRECAST MANHOLE BASES TO ASTM C78 C IV MINIMUM COMPLETE WITH 1200 DIAMETER STUB RISER AND MONOLITHIC ENDS TO SUIT SEWER SIZES


## Manhole Material <br> Type C Manhole



## Manhole Material

 ASTM C478 - Large Diameter$\left.\begin{array}{|l|c|c|c|c|}\hline \text { DESCRIPTION OF ITEMS } & & \text { VOLUME } \\ \text { (NOMINAL DIAMETER) } & & \text { WEIGHT } \\ \text { (L/barrel) }\end{array}\right)$

[^0]- Product is not stock, call to order.


## Manhole Material <br> Large Diameter



ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED

| MANHOLE DIAMETER | STANDARD HEIGHT $(\mathrm{m})$ <br> "L" | WALL THICKNESS $(\mathrm{mm})$ <br> "T" | FLAT TOP REDUCER (mm) | CONGRETE BASE (mm) | REDUCER HEICHT (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1350 | 1.83 | 140 | 210 | 200 | 310 |
| 1500 | 1.83 | 153 | 210 | 200 | 310 |
| 1650 | 1.83 | 166 | 210 | 200 | 310 |
| 1800 | 1.83 | 197 | 210 | 200 | 310 |
| 2100 | 1.83 | 203 | 210 | 200 | 310 |
| 2400 | 1.80 | 248 | 280 | 280 | 407 |
| 2700 | 1.80 | 273 | 280 | 280 | 429 |
| 3000 | 1.80 | 279 | 270 | 280 | 422 |

## Rubber Gaskets \& Kent Seal

| $\begin{aligned} & \text { DIAMETER } \\ & (\mathrm{mm}) \end{aligned}$ | RUBBER GASKET |  | KENT SEAL |  |
| :---: | :---: | :---: | :---: | :---: |
|  | TYPE | PRICE \$/Gasket | SIZE \& LENGTH Required per Joint | PRICE per Joint \$/ea |
| 300 | SS 135 |  | $25 \mathrm{~mm} \times 1.31 \mathrm{~m}$ |  |
| 375 | SS 135 |  | $25 \mathrm{~mm} \times 1.55 \mathrm{~m}$ |  |
| 450 | SS 135 |  | $25 \mathrm{~mm} \times 1.83 \mathrm{~m}$ |  |
| 525 | SS 135 |  | $25 \mathrm{~mm} \times 2.13 \mathrm{~m}$ |  |
| 600 | SS 135 |  | $25 \mathrm{~mm} \times 2.44 \mathrm{~m}$ |  |
| 750 | SS 135 |  | $25 \mathrm{~mm} \times 2.96 \mathrm{~m}$ |  |
| 900 | SS 135 |  | $25 \mathrm{~mm} \times 3.48 \mathrm{~m}$ |  |
| 1050 | SS 135 |  | $25 \mathrm{~mm} \times 4.00 \mathrm{~m}$ |  |
| 1200 | SS 185 |  | $25 \mathrm{~mm} \times 4.45 \mathrm{~m}$ |  |
| 1350 | SS 185 |  | $38 \mathrm{~mm} \times 5.12 \mathrm{~m}$ |  |
| 1500 | SS 185 |  | $38 \mathrm{~mm} \times 5.61 \mathrm{~m}$ |  |
| 1650 | CR5861 185 |  | $38 \mathrm{~mm} \times 6.10 \mathrm{~m}$ |  |
| 1800 | SS 185 |  | $38 \mathrm{~mm} \times 6.40 \mathrm{~m}$ |  |
| 2100 | SS 185 |  | $38 \mathrm{~mm} \times 7.38 \mathrm{~m}$ |  |
| 2400 | SS 185 |  | $38 \mathrm{~mm} \times 8.41 \mathrm{~m}$ |  |
| 2700 | n/a |  | $38 \mathrm{~mm} \times 9.45 \mathrm{~m}$ |  |
| 3000 | n/a |  | $38 \mathrm{~mm} \times 11.35 \mathrm{~m}$ |  |

Notes: 1) Superseal gaskets require no lube (sizes from 300 mm to $1500 \mathrm{~mm}, 1800 \mathrm{~mm}$ \& 2100 mm ).
2) Prices are provided as a guide for estimating and are subject to change without notice.

## GASKET LUBRICANT

| DESCRIPTION | SIZE | PRICE |
| :---: | :---: | :---: |
| Tylox Pipe Lube | 13.6 kg Pail |  |

KENT-SEAL BUTYL RUBBER GASKETS

| DESCRIPTION | PRICE |
| :--- | :--- |
| \$/CARTON |  |$|$| $25.0 \mathrm{~mm}(1 ")$ WIDE $\times 4.45 \mathrm{~m}$ LONG -6 pieces / carton (for joints 1200 mm and smaller) |
| :--- |
| $38.0 \mathrm{~mm}\left(11 / 2^{\prime \prime}\right)$ WIDE $\times 3.31 \mathrm{~m}$ LONG -4 pieces / carton (for joints 1350 mm and larger) |

Notes: 1) Prices are provided as a guide for estimating and are subject to change without notice.

## Superseal Gaskets

## Installation

1. Ensure Bell, Spigot and Gasket are free from loose debris or foreign material.

Stretch the gasket around the spigot, with the nose against the step, and the tube laying flat against the spigot. DO NOT LUBRICATE.
1.

2. Align the spigot with the bell, and thrust the spigot home using suitable mechanical means. The homing process will cause the lubricated tube to "roll" over itself, above the compression section, allowing the pipe to slide forward.

3. Once fully homed, the compression section seals the total annular space; the rolling tube comes to rest within the small annular space acting as a cushion against side loads, and the serrations act to resist pipe pull-out


## MATERIALS

Tylox ${ }^{\circ}$ SuperSeal gaskets*
are available in the following materials:

- Isoprene

Optional Materials

- Nitrite (Oil Resistant)
- Isoprene / EPDM blend
(Green Book \& C425)
- Neoprene (Oil and Ozone Resistant)

Other materials may be available as special order.
Contact Inland Pipe for your specific requirements

## SPECIFICATIONS

Tylox SuperSeal gaskets* are manufactured to meet material requirements of the following specifications:

- ASTM C361, C425, \& C443
- AASHTO M198.4
- CSA A257
- "Green Book"

Other specifications may be available as special order.
Contact Inland Pipe for your specific requirements
*Tylox SuperSeal Gaskets are patented under US Patent 4934716
...in Round Pipe \& Manholes


## Catch Basin Material

| DESCRIPTION | $\begin{aligned} & \text { SUMP } \\ & (\mathrm{mm}) \end{aligned}$ | WEIGHT kg/ea | $\begin{aligned} & \text { PRICE } \\ & \text { \$/ea } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 750mm X 1.83m Catch Basin | 600 | 1235 |  |
| $750 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Catch Basin | 600 | 879 |  |
| $750 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Catch Basin | 75 | 704 |  |
| $750 \mathrm{~mm} \mathrm{X} \mathrm{0.61m} \mathrm{Catch} \mathrm{Basin}$ | 75 | 524 |  |
| 750 mm X 0.46 m Catch Basin | 0 | 436 |  |
| 750 mm X 0.31 m Catch Basin | 0 | 349 |  |
| $750 \mathrm{~mm} / 600 \mathrm{~mm} \times 0.20 \mathrm{mRTS}$ Flat Reducer | - | 245 |  |
| $900 \mathrm{~mm} \mathrm{X} \mathrm{1.83m} \mathrm{Catch} \mathrm{Basin}$ | 600 | 1701 |  |
| $900 \mathrm{~mm} \times 1.22 \mathrm{~m}$ Catch Basin | 600 | 1214 |  |
| $900 \mathrm{~mm} \times 0.92 \mathrm{~m}$ Catch Basin | 75 | 975 |  |
| $900 \mathrm{~mm} \mathrm{X} \mathrm{0.61m} \mathrm{Catch} \mathrm{Basin}$ | 75 | 728 |  |
| $900 \mathrm{~mm} \times 0.46 \mathrm{~m}$ Catch Basin | 0 | 608 |  |
| 900 mm X 0.31 m Catch Basin | 0 | 488 |  |
| $900 \mathrm{~mm} / 750 \mathrm{~mm}$ X 0.15m RTR Flat Reducer | - | 200 |  |
| $900 \mathrm{~mm} / 600 \mathrm{~mm}$ X 0.20 mRTS Flat Reducer | - | 305 |  |

Notes: 1) Kent seal NOT included.
2) Catch basin hood and pin NOT included.
3) Prices are provided as a guide for estimating and are subject to change without notice.
4) Catch basins are prequalified under the Plant Prequalification Program.
5) All catch basins manufactured with Type HS(50) high sulphate-resistant hydraulic cement.

| MANHOLE \& CATCH BASIN <br> ADJUSTING RINGS | WEICHT <br> kg/ea | TYPE | PRICE <br> \$/ea |
| :---: | :---: | :---: | :---: |
| $750 \mathrm{~mm} \times 50 \mathrm{~mm}\left(2^{\prime \prime}\right)$ | 56 | with groove |  |
| $750 \mathrm{~mm} \times 75 \mathrm{~mm}\left(3^{\prime \prime}\right)$ | 71 | with groove |  |
| $750 \mathrm{~mm} \times 100 \mathrm{~mm}(4 ")$ | 86 | with groove |  |
| $750 \mathrm{~mm} \times 125 \mathrm{~mm}(5 ")$ | 100 | with groove |  |
| $750 \mathrm{~mm} \times 150 \mathrm{~mm}(6 ")$ | 115 | with groove |  |

Notes: 1) Prices are provided as a guide for estimating and are subject to change without notice.

## Catch Basin Material



Cross Section View
CATCH BASIN w/CURB \& GUTTER INLET (SD - 023)


750mm ADJUSTING RINGS W/ GROOVES

(A) Cross Section View

CATCH BASIN w/CURB \& GUTTER INLET (SD - 024)


## Plugs \& Caps

PRECAST CONCRETE PLUGS


Notes: 1) All plugs have a shoulder to accept rubber gaskets. 2) Gaskets NOT included.
3) Prices are provided as a guide for estimating and are subject to change without notice.
4) All plugs and blocks manufactured with Type $\mathrm{HS}(50)$ high sulphate-resistant hydraulic cement.
5) Pricing for bends available upon request.


## Flared Ends

| DIAMETER mm | SLOPE | $\begin{gathered} \text { A } \\ \mathrm{mm} \end{gathered}$ | $\underset{\mathrm{mm}}{\mathrm{~B}}$ | $\underset{\mathrm{mm}}{\mathrm{C}}$ | $\underset{\mathrm{mm}}{\mathrm{~L}}$ | $\underset{\mathrm{mm}}{\mathrm{~W}}$ | WEIGHT kg/ea | PRICE \$/ea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 300 | VARIES | 102 | 610 | 1245 | 1854 | 610 | 570 |  |
| 375 | VARIES | 152 | 686 | 1168 | 1854 | 762 | 780 |  |
| 450 | 3 TO 1 | 300 | 670 | 555 | 1225 | 935 | 430 |  |
| 525 | VARIES | 241 | 1105 | 762 | 1867 | 1219 | 1465 |  |
| 600 | 3 TO 1 | 225 | 1055 | 725 | 1780 | 1200 | 858 |  |
| 750 | 3 TO 1 | 300 | 1325 | 525 | 1850 | 1500 | 995 |  |
| 900 | 3 TO 1 | 375 | 1590 | 860 | 2450 | 1800 | 1865 |  |
| 1050 | VARIES | 533 | 1600 | 889 | 2489 | 1981 | 4660 |  |
| 1200 | VARIES | 610 | 1829 | 660 | 2489 | 2134 | 4490 |  |
| 1350 | VARIES | 685 | 1650 | 895 | 2540 | 2545 | 3665 |  |
| 1500 | VARIES | 760 | 1525 | 820 | 2450 | 2740 | 3980 |  |

Notes 1) Flared ends are non stock items - contact INLAND for availability.
2) Gaskets NOT included.
3) All flared end sections manufactured with Type $\mathrm{HS}(50)$ high sulphate-resistant hydraulic cement.
4) The following flared ends are produced in Calgary, please allow for extra lead time: $300 \mathrm{~mm}, 375 \mathrm{~mm}, 525 \mathrm{~mm}, 1050 \mathrm{~mm}, 1200 \mathrm{~mm}$. 1350 mm , and 1500 mm .


## Box Sections

One of the advantages of the vibration method of manufacture is the variety of shapes which can be produced to meet almost any pipe requirement. Precast concrete box sections are now available from INLAND PIPE in the sizes indicated in the following literature.

Box sections are advantageous in situations where it is desirable to minimize the vertical pipe dimension without reducing the total pipe area or having to use twin pipes. Ditch and creek replacements, storm sewers and highway culverts are examples of typical applications where restricted overhead clearance, shallow pipe depth or high water table make this section very useful. The designer may find many other uses for this shape such as pedestrian underpasses, chambers, etc.

The precast section compares favourably with the cost of cast-in-place concrete boxes, but gives the additional advantage of a much faster installation time. This reduces overall costs, the interference due to construction activities and possible dewatering problems.


## Box Sections



## BOX SECTION DIMENSION DETAIL

| $\begin{aligned} & \text { DESCRIPTION } \\ & \text { NOMINAL } \\ & \text { SPAN x RISE } \end{aligned}$ | ACTUAL INSIDE DIMENSIONS SPAN x RISE | SIDE WALL THICKNESS (mm) | $\begin{aligned} & \text { TOP WALL } \\ & \text { THICKNESS } \\ & (\mathrm{mm}) \end{aligned}$ | BOTTOM WALL THICKNESS (mm) | $\begin{aligned} & \text { SLAB TOP } \\ & \text { THICKNESS } \\ & (\mathrm{mm}) \end{aligned}$ | BASE THICKNESS (mm) | SPIGOT LENGTH (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 1829mm x 914mm | 178 | 178 | 178 | 203 | 203 | 102 |
| $1800 \mathrm{~mm} \times 1200 \mathrm{~mm}$ | $1829 \mathrm{~mm} \times 1219 \mathrm{~mm}$ | 178 | 178 | 178 | 203 | 203 | 102 |
| $2400 \mathrm{~mm} \times 1200 \mathrm{~mm}$ | $2439 \mathrm{~mm} \times 1219 \mathrm{~mm}$ | 203 | 203 | 203 | 305 | 305 | 127 |
| $2400 \mathrm{~mm} \times 1500 \mathrm{~mm}$ | $2439 \mathrm{~mm} \times 1524 \mathrm{~mm}$ | 203 | 203 | 203 | 254 | 254 | 108 |
| $2400 \mathrm{~mm} \times 1800 \mathrm{~mm}$ | $2439 \mathrm{~mm} \times 1829 \mathrm{~mm}$ | 203 | 203 | 203 | 305 | 305 | 127 |
| $2400 \mathrm{~mm} \times 2400 \mathrm{~mm}$ | $2439 \mathrm{~mm} \times 2439 \mathrm{~mm}$ | 203 | 203 | 203 | 305 | 305 | 127 |
| $3000 \mathrm{~mm} \times 1500 \mathrm{~mm}$ | $3049 \mathrm{~mm} \times 1524 \mathrm{~mm}$ | 254 | 254 | 254 | 254 | 254 | 108 |
| $3000 \mathrm{~mm} \times 2400 \mathrm{~mm}$ | $3049 \mathrm{~mm} \times 2439 \mathrm{~mm}$ | 254 | 254 | 254 | 305 | 305 | 127 |
| $3600 \mathrm{~mm} \times 3600 \mathrm{~mm}$ | $3658 \mathrm{~mm} \times 3658 \mathrm{~mm}$ | 305 | 305 | 305 | 400 | 400 | 127 |

## Box Sections <br> ASTM C1433

|  |  |  | PRICES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DESCRIPTION OF ITEMS (SPAN x RISE x LENGTH) | $\begin{aligned} & \text { VOLUME } \\ & \text { (L/box) } \end{aligned}$ | WEIGHT <br> (kg) | COVER RANGE <br> 1.0-3.5m (HORIZONTAL INSTALL) | COVER RANGE <br> 3.5m-7.0m (HORIZONTAL INSTALL) | COVER RANGE $7.0 \mathrm{~m}-9.0 \mathrm{~m}$ (HORIZONTAL NSTALL) $0.0 \mathrm{~m}-1.0 \mathrm{~m}$ (HORIZONAAL NSTALL \& MANHOLES) |
| $1829 \mathrm{~mm} \mathrm{x} \mathrm{914mm} \mathrm{( } \mathbf{6}^{\prime} \times 3^{\prime}$ ) |  |  |  |  |  |
| 2.5m BOX LENGTH | 4021 | 7500 |  |  |  |
| 2.0m BOX LENGTH | 3217 | 6000 |  |  |  |
| 1.8m BOX LENGTH | 2895 | 5400 |  |  |  |
| 1.5m BOX LENGTH | 2413 | 4500 |  |  |  |
| 1.2m BOX LENGTH | 1930 | 3600 |  | Call for pricing |  |
| 0.6m BOX LENGTH | 965 | 1800 |  |  |  |
| BASE / SLAB TOP | - | 1450 |  |  |  |
| 2.5m BEND | - | 7500 |  |  |  |
| 2.5m BEVELED END | - | 3750 |  |  |  |
| $1829 \mathrm{~mm} \times 1219 \mathrm{~mm}\left(6^{\prime} \times 4^{\prime}\right)$ |  |  |  |  |  |
| 2.5m BOX LENGTH | 5415 | 7825 |  |  |  |
| 2.0m BOX LENGTH | 4332 | 6260 |  |  |  |
| 1.8m BOX LENGTH | 3899 | 5634 |  |  |  |
| 1.5m BOX LENGTH | 3249 | 4695 |  |  |  |
| 1.2m BOX LENGTH | 2599 | 3756 |  |  |  |
| 0.6m BOX LENGTH | 1300 | 1878 |  |  |  |
| BASE / SLAB TOP | , | 1620 |  |  |  |
| 2.5m BEND | - | 7825 |  |  |  |
| 2.5 m BEVELED END | - | 3913 |  |  |  |
| $2439 \mathrm{~mm} \times 914 \mathrm{~mm}$ ( $8^{\prime} \times 3^{\prime}$ ) |  |  |  |  |  |
| 2.5m Box Length | 4030 | 9924 |  |  |  |
| 2.0m Box Length | 3220 | 7939 |  |  |  |
| 1.8m Box Length | 2900 | 7145 |  |  |  |
| 1.5m Box Length | 2420 | 5954 |  |  |  |
| 1.2m Box Length | 1930 | 4764 |  |  |  |
| 0.6m Box Length | 970 | 2382 |  |  |  |
| Base/Slabtop | - | 2825/3304 |  |  |  |
| Bend | - | 10122 |  |  |  |
| 1.8 m Bevel End | - | 5441 |  |  |  |
| $2439 \mathrm{~mm} \times 1219 \mathrm{~mm}\left(8^{3} \times 4^{\text {P }}\right.$ ) |  |  |  |  |  |
| 2.5m BOX LENGTH | 6994 | 10253 |  |  |  |
| 2.0m BOX LENGTH | 5595 | 8202 |  |  |  |
| 1.8m BOX LENGTH | 5036 | 7382 |  |  |  |
| 1.5m BOX LENGTH | 4196 | 6152 |  |  |  |
| 1.2m BOX LENGTH | 3357 | 4921 |  |  |  |
| 0.6m BOX LENGTH | 1679 | 2461 |  |  |  |
| BASE / SLAB TOP | - | 3012/3586 |  |  |  |
| 2.5m BEND | - | 10253 |  |  |  |
| 2.5m BEVELED END | - | 5126 |  |  |  |
| $2439 \mathrm{~mm} \times 1524 \mathrm{~mm}\left(8^{\text {² }} \times 5^{\text { }}\right.$ ) ${ }^{\text {a }}$ |  |  |  |  |  |
| 2.5m BOX LENGTH | 9087 | 11450 |  |  |  |
| 2.0m BOX LENGTH | 7269 | 9400 |  |  |  |
| 1.8m BOX LENGTH | 6542 | 8460 |  |  |  |
| 1.5m BOX LENGTH | 5452 | 7050 |  |  |  |
| 1.2m BOX LENGTH | 4362 | 5640 |  | Call for Pricing |  |
| 0.6m BOX LENGTH | 2181 | 2820 |  |  |  |
| BASE / SLAB TOP | - | 3330 |  |  |  |
| 2.5m BEND | - | 11750 |  |  |  |
| 2.5m BEVELED END | - | 5875 |  |  |  |

- Additional box sizes are available. Please call for details.
- Cover ranges indicate height between the top of the box and the ground surface (rim elevation)
- Boxes can be fabricated to comply with the CHBDC CSA S6-06 with CL-800 loading. For other loading conditions, call for estimate.
- Slab tops include 710 mm formed opening.
- Box material is NOT stock; call for availability
- Horizontal installation indicates the longer dimension (span) of the box is parallel with the ground. Vertical installation indicates the span is perpendicular to the ground.
- Boxes may be stacked and used as manholes; call for details. Approved drawings are required before manufacture.
- All rough cut, cored or formed holes, rake out sections, wiers or cast in baffles are extra; call for pricing. Approved drawings are required before manufacture.
- Box bends are available up to $50^{\circ}$ in $5^{\circ}$ increments and have a 2.5 m length.
- Minimum fill height (over top of box) is 1.2 m . Shallower burials are possible but extra charges may apply and are subject to approval by design engineer. Call for details.
- City of Calgary requires Sikaflex to be used to seal joints in box culverts. This is not supplied by Inland Pipe.
- Butyl joint selant may be used in manhole applications. Extra measures by the contractor may be necessary to achieve water tightness in the joints.

HEIDELBERGCEMENTGroup

## Box Sections ASTM C1433

|  |  |  | PRICES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DESCRIPTION OF ITEMS (SPAN x RISE x LENGTH) | VOLUME (L/box) | WEIGHT <br> (kg) | $\begin{aligned} & \text { COVER RANGE } \\ & 1.0-3.5 \mathrm{~m} \\ & \text { (HORIZONTAL INSTALL) } \end{aligned}$ | COVER RANGE <br> 3.5m-7.0m <br> (HORIZONTAL INSTALL) | COVER RANGE $7.0 \mathrm{~m}-9.0 \mathrm{~m}$ (HORIZONTAL INSTALL) 0.Om -1.0 m (HORIZONTAL INSTALL \& MANHOLES) |
| $2439 \mathrm{~mm} \mathrm{x} \mathrm{1829mm} \mathrm{( } 8^{\prime} \times 6^{\prime}$ ) |  |  |  |  |  |
| 2.5 m BOX LENGTH | 10594 | 11715 |  |  |  |
| 2.0 m BOX LENGTH | 8475 | 9372 |  |  |  |
| 1.8m BOX LENGTH | 7628 | 8435 |  |  |  |
| 1.5m BOX LENGTH | 6356 | 7029 |  |  |  |
| 1.2m BOX LENGTH | 5085 | 5623 |  |  |  |
| 0.6m BOX LENGTH | 2543 | 2812 |  |  |  |
| BASE / SLAB TOP | , | 4203/4859 |  |  |  |
| 2.5 m BEND | - | 9372 |  |  |  |
| 2.5 m BEVELED END | - | 8904 |  |  |  |
| $2439 \mathrm{~mm} \times 2439 \mathrm{~mm}$ ( $8^{\prime} \times 8^{\prime}$ ) ${ }^{\text {a }}$ |  |  |  |  |  |
| 2.5 m BOX LENGTH | 14666 | 13368 |  |  |  |
| 2.0 m BOX LENGTH | 11733 | 10694 |  |  |  |
| 1.8m BOX LENGTH | 10559 | 9625 |  |  |  |
| 1.5 m BOX LENGTH | 8799 | 8021 |  |  |  |
| 1.2m BOX LENGTH | 7040 | 6416 |  |  |  |
| 0.6 m BOX LENGTH | 3520 | 3208 |  |  |  |
| BASE / SLAB TOP | - | 5636/6214 |  |  |  |
| 2.5m BEND | - | 13368 |  |  |  |
| 2.5m BEVELED END | - | 10160 |  |  |  |
| $3049 \mathrm{~mm} \times 2439 \mathrm{~mm}$ ( $10{ }^{\prime} \times 8^{\prime}$ ) |  |  |  |  |  |
| 2.5m BOX LENGTH | 18269 | 19050 |  |  |  |
| 2.0m BOX LENGTH | 14615 | 15240 |  |  |  |
| 1.8m BOX LENGTH | 13153 | 13716 |  |  |  |
| 1.5 m BOX LENGTH | 10961 | 11430 |  |  |  |
| 1.2 m BOX LENGTH | 8769 | 9144 |  |  |  |
| 0.6 m BOX LENGTH | 4385 | 4572 |  |  |  |
| BASE / SLAB TOP | - | 7262/8085 |  |  |  |
| 2.5m BEND | - | 15240 |  |  |  |
| $3658 \mathrm{~mm} \times 3099 \mathrm{~mm}$ ( 12 ' x 10') |  |  |  |  |  |
|  |  |  |  |  |  |
| 2.0m Box Length | 9290 | 2290 |  |  |  |
| 1.8m Box Length | 8360 | 20610 |  |  |  |
| 1.5m Box Length | 6970 | 17175 |  |  |  |
| 1.2m Box Length | 5570 | 13740 |  | Call for Pricing |  |
| 0.6m Box Length | 2790 | 6870 |  |  |  |
| Base/Slabtop |  | 15394/16790 |  |  |  |
| Bend | - | 23473 |  |  |  |
| 1.5m Bevel End | - | 12847 |  |  |  |
| $3658 \mathrm{~mm} \times 3658 \mathrm{~mm}$ (12' $\times 12$ ') |  |  |  |  |  |
| 1.8m BOX LENGTH | 23751 | 22000 |  |  |  |
| 1.5 m BOX LENGTH | 19793 | 19000 |  |  |  |
| 1.2m BOX LENGTH | 15834 | 15000 |  | Call for Pricing |  |
| BASE / SLAB TOP | - | 16700/18300 |  |  |  |
| 1.8 m BEND | - | 21686 |  |  |  |
| 1.8 m BEVELED END | - | 10843 |  |  |  |

- Pricing does not include freight.
- Cover ranges indicate height between the top of the box and the ground surface (rim elevation).
- Boxes can be fabricated to comply with the CHBDC CSA S6-06 with CL-625 loading. For other loading conditions, call for estimate.
- Slab tops include 750 mm formed opening. Add $10 \%$ to this price for a slab top adaptor ( 1200 mm opening).
- Box material is NOT stock; call for availability
- Horizontal installation indicates the longer dimension (span) of the box is parallel with the ground. Vertical installation indicates the span is perpendicular to the ground.
- Boxes may be stacked and used as manholes; call for details. Approved drawings are required before manufacture.
- All rough cut, cored or formed holes, rake out sections, wiers or cast in baffles are extra; call for pricing. Approved drawings are required before manufacture.
- Minimum fill height (over top of box) is 1.2 m . Shallower burials are possible but extra charges may apply and are subject to approval by design engineer. Call for details.
- Butyl joint selant may be used in manhole applications. Extra measures by the contractor may be necessary to achieve water tightness in the joints.


## Miscellaneous

| DESCRIPTION | WEICHT <br> $\mathrm{kg} / \mathrm{ea}$ | PRICE <br> \$/ea |
| :---: | :---: | :---: |
| Straps (Straight \& Bent) | 2 | 1 |
| Anchors | 3 |  |
| 8 Ton Clutch | 3 |  |
| 4 Ton Clutch |  |  |
| Aluminum Ladder Rungs | 40 |  |
| Catch Basin Hood (plastic) c/w pin |  |  |
| Sulphate Resistant Cement (bag) |  |  |

Notes: 1) Prices are provided as a guide for estimating and are subject to change without notice.

PRECAST HYDRANT BLOCKS

| HYDRANT BLOCK DIMENSIONS | WEIGHT |
| :---: | :---: | :---: |
| kg/ea | PRICE PER BLOCK |
| \$/ea |  |

Notes: 1) Prices are provided as a guide for estimating and are subject to change without notice.
2) Hydrant blocks manufactured with Type HS(50) high sulphate-resistant hydraulic cement.


# THE NEW CONCRETE PIPE 

## Strong.Durable.Versatile.

And now we're even better. Our advanced manufacturing methods, concretemix designs, and vastly improved joint designs and gaskets provide superior products for wastewater collection systems and underground utility installations.

## Swift Lift Pipe

## How to Use the Swift Lift Universal Lifting Eye



## How to Lift Pipe Using Swift Lift



Correct Method for Homing the Pipe Together


## Hoisting Gear Information



1. To install the P-50 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.
2. Lower the body of the lifting eye until the $T$-shaped slot engages the head of the anchor.
3. Rotate the body until the extended lip of the body touches the concrete surface.
4. The pipe is first transported to the installation site with the symmetrical sling and lowered close to the already placed pipe .

Note: a) 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. Because these loads can greatly increase the weight of the element, this safety note should not be overlooked.
b) Load must be applied simultaneously to all Swift Lift Anchors in order to safely lift product.

1. To pull the pipe into position, the long leg of the hoisting gear is coupled to the previously placed pipe.
2. Eye 2 is disconnected from the swift lift anchor and attached to master link.
3. Eye 3 is then connected to the pipe you will be homing to.
4. Crane or backhoe operator must ensure the lifting point is over the outer lifting anchor of the previously placed pipe so that the direction of pull is slightly inclined toward placed pipe.
5. Operator must then lift up on the hoisting gear until pipe is homed together.

| HOISTING GEAR LEG DIMENSIONS |  |  |  |
| :---: | :---: | :---: | :---: |
| A | B | C | D |
| 1440 mm | 400 mm | 1040 mm | 1940 mm |
| $(57$ ") | $(16$ ") | $\left(41^{\prime \prime}\right)$ | $(76$ ") |

## Notes:

1. Swift Lift anchors are available in pipe sizes 1050 mm and larger.
2. Pipe 1050 mm to 1650 mm use the 4 ton lifting eye and pipe 1800 mm and larger use the 8 ton lifting eye.
3. Manholes 1200 mm to 1800 mm use 4 ton lifting eye and Manholes 2100 mm and larger use the 8 ton lifting eye.

## Swift Lift <br> Manhole / Riser Material



How to Use the SL Universal Lifting Eye


Note: Load must be applied simultaneous to all Swift Lift Anchors in order to safely lift product.
Contact INLAND for more information.

## Standard Installations

## TECHNOLOGY LEADS TO STATE-OF-THE-ART BEDDINGS


#### Abstract

These four new Standard Installations represent the first major change in the recommended installation of concrete pipe in over 70 years. Many changes have taken place in the design, manufacture and construction method over the years, but none regarding recommended beddings for concrete pipe. The new beddings are state of the art installations based on over 20 years of comprehensive research and analysis of the factors which affect field performance.


The four new installations reflect the many factors affecting the pipesoil system. The research recognized the difficulty in obtaining good compaction in the haunch area below the pipe and assumed poorly compacted material in this area. One of the key factors affecting performance, identified by the research, is the support provided by the haunch and lower side area adjacent to the pipe. Because of it's importance, the new beddings quantify the required compaction levels in this area. Improved backfilling procedures, compaction methods and introduction of modern testing equipment provide engineers the opportunity to use these new state of the art installations.

A bedding constructable in the underground utility environment is a necessity. There are more reasons for the new standard beddings. They are verifiable and quantifiable. The means to construct the beddings and the technology to measure the compaction levels are readily available.

If the pipe is installed in a trench or in a sub-trench within an embankment, the soils in the walls of the trench should have a firmness equivalent to the stiffness of the placed soils. This provision may require removal of soft soil, or soil with inadequate stiffness in the walls or foundation of the trench adjacent to the pipe.

## STANDARD INSTALLATIONS

These new Standard installations identify four principal zones surrounding the lower half of the pipe, which are critical to the pipe-soil system. The four zones are the middle bedding, the outer bedding, the haunch and the lower side. The type of material (based on soil characteristics) and level of compaction varies with the installation type, i.e., 1,2,3 or 4, and the material utilized in construction of these important zones.

Installation - Type 4 Type 4 is intended for installations where the most cost effective design approach is to specify the minimal requirements for soil type and compaction, together with a pipe having sufficient strength to safely resist the increased structural effects that result from using low quality soils. Thus, Type 4 has little or no requirement for control of compaction and type of placed soil used in the bedding and haunch areas, except if silty clay soils are used in the haunch and outer bedding zones, they must be compacted. It is desirable to scarcify (loosen) hard native soils before placing the pipe.

Installation - Type 3 Type 3 permits the use of soils in the haunch and bedding zones having easily attained compaction requirements, justifying less stringent inspection requirements with granular and some native soils. Silty clays may be used in the haunch zone if adequately compacted. In addition to the foundation similar to Type 4, a bedding layer with a minimum thickness of 75 millimeters is required to avoid placing the pipe directly on hard or variable subgrade.

Installation - Type 2 Type 2 is a standard installation where certain native soils are permitted to be used with proper compaction in the haunch and bedding zones. Adequately compacted native silty granular soils or select granular soils may be used in the haunch and outer bedding zones. This is intended to allow the use of soil frequently found at the site. Any natural soil adjacent to the pipe should have a firmness equivalent to the placed soils. Foundation and bedding requirements are similar to Type 3.

Installation - Type 1 Type 1 requires well compacted, select granular soil to be placed in the haunch and bedding zones. The structural design of the pipe section then takes advantage of the support provided by this high quality soil envelope, making this installation often cost effective for deep bury applications and for pipe 600 millimeters and larger.

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## Standard Installations

## EMBANKMENT



|  | Standard Installation Soil Types and Minimum Compaction Requirements |  |  |
| :---: | :---: | :---: | :---: |
|  | Bedding Thickness | Haunch | Lower Side |
| $\stackrel{\Gamma}{\stackrel{\rightharpoonup}{\underset{z}{2}}}$ | $D_{0} / 24$ minimum，not less than 75 mm （ 3 in ）． If rock foundation use $\mathrm{D}_{\mathrm{d}} / 12$ minimum， not less than 150 mm （ 6 in ）． | 95\％SW，SP，GW，GP | $90 \%$ SW，SP，GW，GP $95 \%$ GM，SM，ML，GC，SC＊ $100 \%$ CL，MH，GC，SC |
| $\begin{aligned} & \stackrel{\sim}{山 己} \\ & \stackrel{\rightharpoonup}{\mid} \end{aligned}$ | $D_{0} / 24$ minimum，not less than 75 mm （ 3 in）．If rock foundation， use $D_{d} / 12$ minimum，not less than 150 mm （ 6 in ）． | $90 \%$ SW，SP，GW，GP $95 \%$ GM，SM，ML，GC，SC＊ | 85\％SW，SP，GW，GP $90 \%$ GM，SM，ML，GC，SC＊ $95 \%$ CL，MH，GC，SC |
| $\begin{aligned} & \text { en } \\ & \stackrel{\rightharpoonup}{\rightleftarrows} \end{aligned}$ | $\mathrm{D}_{0} / 24$ minimum，not less than $75 \mathrm{~mm}(3 \mathrm{in})$ ．If rock foundation， use $D_{0} / 12$ minimum，not less than 150 mm （6 in）． | 85\％SW，SP，GW，GP $90 \%$ GM，SM，ML，GC，SC＊ $95 \%$ CL，MH，GC，SC | $85 \%$ SW，SP，GW，GP $90 \%$ GM，SM，ML，GC，SC＊ 95\％CL，MH，GC，SC |
| $\begin{gathered} \stackrel{\rightharpoonup}{山 ゙} \\ \stackrel{\rightharpoonup}{z} \end{gathered}$ | No bedding required，except if rock foundation， use $D_{d} 12$ minimum，not less than 150 mm （ 6 in ）． | No compaction required， except when CL，MH，GC，or SC soil types are used to compact to $85 \%$ | No Compaction required， except when CL，MH，GC，or SC soil types are used compact to $85 \%$ |

－The percentages listed above refer to standard proctor compaction levels
Figure 2
－The soil types above（ie．SW，GM）are taken from the Unified Soil Classification System（USCS）
－SC＊indicates SC type soil with less than $20 \%$ passing the \＃200 sieve

## Standard Installations

## RESEARCH PRODUCES NEW INSTALLATIONS


#### Abstract

This foldout presents new installation technology with respect to concrete pipe through four unique standard installations developed over 20 years of investigation and research into the behavior of concrete pipe in the buried condition. The Standard Installations provide both the designer and the installer with measurable and verifiable soil types and compaction levels for the material used in the installation. These new installations facilitate the design of a rational and cost-effective concrete pipe soil system by providing an optimum range of installation characteristics.


Versatile: There is one word to describe the new standard installations, and that word is VERSATILITY. The range of installation types from 1 through 4 offer a concrete pipe designer the ability to tailor any individual project to suit specific site conditions and budgetary constraints.

In a Type 1 installation for example, the soil zone adjacent to the pipe and below the springline requires select materials with specified compaction limits. Through the use of this controlled soil envelope, a wide load distribution is achieved. In other words, a Type 1 installation uses this select material as an advantage in the design of the whole systema situation which translates to a lesser dependence on inherent pipe strength, and therefore lower pipe material costs when compared to the same site with a lower quality installation.

On the other end of the spectrum, in areas where native material is suitable, but perhaps not of the highest grade (silts and low plasticity clays), a Type 4 installation can be chosen by the designer. This installation type requires little or no inspection, almost no compaction requirements on the material, and the versatility to use almost any type of native soil as backfill in the trench. The trade-off here is reduced backfill material costs, and greatly reduced installation costs in terms of manpower required, but greater dependence on inherent pipe strength.

Figure 1 illustrates this versatility in a graphical manner. Looking at a Type 1 installation, it can be seen that the dependence on installation is significant in comparison to the dependency on the pipe section.


Conversely, in a Type 4 installation, a greater percentage of total dependency resides in the pipe section, while very little dependency is associated with material and installation. This graph is not meant to say that all four installation types are equivalent in terms of the total costs. By evaluating the ratio of pipe cost to backfill material cost, the four new standard installations can be used to optimize total expenditure by balancing the performance of the pipe-soil system.

Conservative: The design associated with the Standard Installations is founded in conservatism. The loads and pressures experienced by the pipe in the installed condition have been analyzed in depth and modeled through the use of the finite element analysis computer program, SPIDA (Soil-Pipe Interaction Design and Analysis). The SPIDA analyses are based on several key assumptions:

1. The worst case (embankment) loadings are used, and the same load factors used in the traditional AASHTO direct design procedure are still employed.
2. Voids are assumed to exist in the haunch zone of all four installation types. These voids are modeled into the SPIDA computer simulations used in the development of the design procedure.
3. In recognition of the variability of the loading characteristics, the new installations are based on the greatest predicted loads for design. Typical loads would likely be 10-20 percent less.
4. Through quantification of material and compaction requirements, a degree of uncertainty has been eliminated from the design assumptions - the new installations can, therefore, more accurately assess long-term performance of the system.

The new installations allow for better prediction of the loads and pressures which a pipe may experience during its life.

Quantifiable: One of the greatest benefits of the new installation types is that they are quantifiable, that is, they prescribe definite and measurable levels of acceptance. As is indicated in Figure 2, each of the new installations has specific materials requirements, and accompanying compaction levels, making them uniquely different, and prescribing clear and defined direction to the installer as to the requirements of a particular installation. These definitions provide direction to the engineer, owner, and contractor as to the installation factors impacting pipe performance.

## New Product Applications

## $3660 \times 3660 \mathrm{~mm}$ Box Culvert



Inland Pipe's $3660 \times 3660 \mathrm{~mm}$ box culvert can be used for a number of applications.
Box sections can be used horizontally for culverts or storm water detention tanks and vertically for manholes, control structures and lift stations. See our box culvert section for more details.

## Headwalls

Inland Pipe can now provide Headwall structures for large diameter pipe.

Please contact your Inland Pipe representative for more information.


| TYPE | PIPE DIAMETER <br> $(\mathrm{mm})$ | A <br> $(\mathrm{mm})$ | B <br> $(\mathrm{mm})$ | C <br> $(\mathrm{mm})$ | D <br> $(\mathrm{mm})$ | E <br> $(\mathrm{mm})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $26-28$ | $1500-1800$ | 2955 | 4186 | 2540 | 1421 |  |
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## Storm Water Treatment cDS

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## Storm Water Treatment

- Utilizes a patented swirl concentrating, non-blocking, non-mechanical, screening process.
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- Captures and retains:
- Suspended solids • Oil and grease
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- Comprehensive treatment flow range from 20 to 8490 L/s ( 0.7 to 300 cfs).
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- Easy annual maintenance.

Inland Pipe is proud to supply the Continuous Deflective Separation (CDS) technology. This swirl concentrating, non-blocking, nonmechanical screening process is uniquely suited to treat storm water runoff. It is entirely gravity driven, using the hydraulic energy available within the storm water flow. Through research and field application, this technology has been refined to successfully capture total suspended solids (TSS), sediments, oils and greases and trash and debris (including floatables and neutrally buoyant debris) under very high flow rate conditions. Once pollutants are captured within a CDS unit, they cannot escape. Clean-out maintenance is easily done on an annual basis.

For Specific drawings and more information, please visit our website or call your Technical Sales Representative.
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In December of 2011 Inland Pipe completed the expansion of the Spyhill Pipe Production Facility located in Calgary. The Spyhill Plant is the most advanced precast drainage material production facility in North America.

## The plant features:

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- High capacity pipe and manhole production equipment
- State of the art robotic pipe handling equipment
- Advanced concrete mixing systems
- Flying bucket concrete delivery system
- Large wetcast area
- Moving floor kiln system
- Capable of producing pipe, boxes and manholes up to 3600 mm


State of the art robotic pipe handling


High capacity automated production

## PRODUCT CATALOGUE <br> Manitoba

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[^0]:    - Product available in custom heights.

