

Vertical Drycast Concrete Pipe

- Jacking Pipe
- PVC and PE Lined Pipe
- Associated Precast Products

Drainage | Watermain | Sewer



INNOVATION & STRENGTH

Vertical Drycast Concrete Key Facts:

V.D.C. is the most advanced process in the world today; resulting in:

- Highest quality design
- Best performance
- Modern production process creates the densest V.D.C. on the market
- Greater overall durability
- Greater collar durability
- Less damage from site handling

Austin Pipe Concepts manufactures Reinforced Concrete Pipes by the V.D.C. method.

Reinforced Concrete Pipe is recognised by Engineers, Contractors and Specifiers throughout the modern world as the most durable, versatile and economical of all pipe products.

Our pipe making technology produces high strength densely compacted concrete by way of the vertical drycast process.

This high density pipe is less susceptible to damage during shipping, installation and in service use.

Reliable quality and advanced technology



Innovative Technology for Optimal performance in the Concrete Pipe Industry



Quality

The Variant machine by Schlosser Pfeiffer combines the outstanding compacting qualities of Schlosser Pfeiffer's proprietary vibration technology with a wide range of sizes. Machine construction follows stringent quality guidelines ensuring all equipment used in the manufacture of V.D.C is of the highest consistent quality.

Flexibility

The Variant Pipe making machine offers the ultimate in dry cast flexibility. Each machine is individually adjusted for every application and combines user friendliness with reliability and easy maintenance. This operational flexibility allows for versatile production.

Development design and engineering manufacture

The Variant machine has been developed and designed using state of the art technology and equipment.

The materials and components used in the manufacture of the machine are selected to meet the strictest quality requirements. This results in tighter manufacturing tolerances and a correspondingly high standard of V.D.C. pipe



Pipe Dia	A Internal Dia (mm)	B Effective Length (m)	C Overall Length (m)	D (mm)	E (mm)	F (mm)	G (mm)
300	300	2.5	2.6	100	530	120	165
375	375	2.5	2.6	100	645	120	206
450	450	2.5	2.6	100	715	120	185
525	525	2.5	2.61	110	800	120	172
600	600	2.5	2.61	110	910	120	206
750	750	2.5	2.61	110	1100	120	247
900	900	2.5	2.62	120	1280	135	261
1050	1050	2.5	2.62	120	1380	135	151
1200	1200	2.5	2.62	120	1676	135	310
1350	1350	2.5	2.62	120	1800	135	234
1600	1600	2.5	2.62	120	2050	135	165



Schlosser Pfeiffer are regarded internationally as world leaders in the manufacture of vertical dry cast concrete pipe.

V.D.C. pipe is made using inner and outer mould formers placed in a vertical aspect. The pipes are cast below floor level, which reduces noise levels, ensures staff are not working at height and also keeps factory and crane heights to a minimum.

The concrete is filled evenly into the mould by way of a rotating feeder belt. Once the dry concrete mix is placed into the assembled mould section the inner is vibrated to ensure even and dense compaction of the concrete is achieved.

Schlosser Pfeiffer have developed the technology for placement and vibration of the concrete such that uniform compaction, consistent wall thickness, perfect cover to reinforcement, smooth inside and outside surfaces and tight dimensional accuracy are features of the pipes produced using this methodology. The spigot end of the pipes is formed by way of a profile ring. Once the process is complete the formed pipe and the outer mould are then stripped from the inner former and placed in storage. The outer former is then removed, leaving the finished product to cure. This process reduces the amount of handling and ensures minimum potential damage to the pipe.

Pipe dimensions and properties may be subject to change pending final design and detailing.

T Ave. wall Thickness (mm)	H (m)	J Lifting Anchor Position 1	K Lifting Anchor Position 2	Wgt Full Length (t)	Joint Gap (mm)	C CCC Shorts	C CCC Starters & Finishes
53	1.387	-	-	0.390	5	0.900	0.300
57	1.404	-	-	0.539	5	1.200	0.300
63	1.379	780	1980	0.672	5	1.200	0.300
73	1.365	770	1970	0.886	5	1.720	0.360
78	1.370	770	1970	1.092	5	1.720	0.360
83	1.405	800	2000	1.457	5	N/A	N/A
93	1.388	790	1990	1.950	5	N/A	N/A
108	1.347	750	1950	2.454	5	N/A	N/A
123	1.389	790	1990	3.430	5	N/A	N/A
138	1.360	760	1960	4.120	5	N/A	N/A
163	1.335	740	1940	5.575	5	N/A	N/A

Features

- P.V.C. and P.E. liners able to be integrated into the manufacturing process
- Cast-in lifting anchors
- Proven performance and strength, consistency of product
- Jacking and thrusting pipes in a range of diameters
- Pipe available for stormwater, sewer, watermain and pump chambers

Advantages

- True 100 year defined life
- Consistent product wall thickness
- Even distribution of aggregates throughout the pipe cross section
- Tighter tolerances due to fully moulded manufacturing process
- The process requires a thicker pipe wall than the traditional product; this has a number of advantages and benefits to the specifier, asset owner and contractor
- Thicker wall giving greater cover to reinforcing
- Thicker collars and spigots being less susceptible to damage
- As the pipe is heavier lifting pins will be incorporated down to 450mm diameter

Benefits

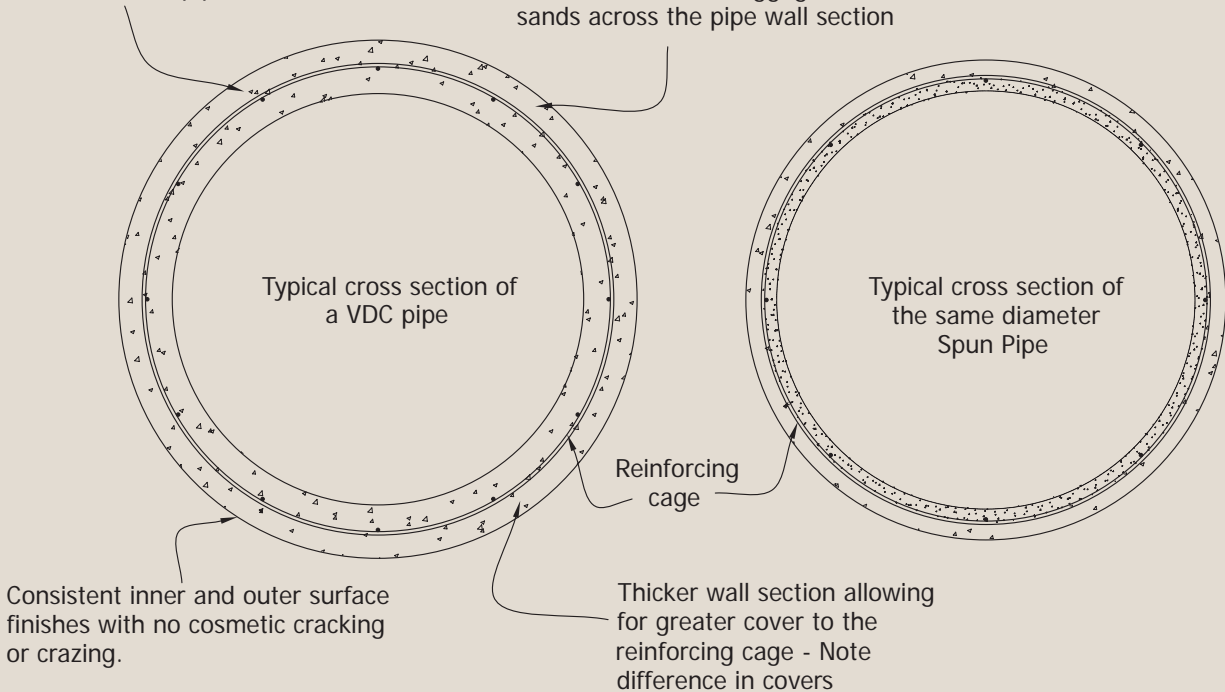
- Lower production costs, offering a more robust product and less energy required to manufacture
- Faster delivery of product due to efficient manufacturing process
- Lower labour costs, offering more efficient costings to product
- Production method uses a dry concrete mix and is proven to be a very safe and environmentally friendly process; there is no slurry produced

The real secret why V.D.C. is the future of pipe manufacture in New Zealand

VDC - HIGHER LEVELS OF PIPE PERFORMANCE DUE TO:

Uniform concrete strength at all sections of the pipe

Homogeneous compaction ensuring even distribution of aggregates and sands across the pipe wall section



Unlike the hand finishing of a spun pipe, VDC pipes are manufactured completely within a mould giving a more consistent and dimensionally accurate pipe. Thicker spigots and collars give improved joint performance and reduced susceptibility to damage.

MANUFACTURING STANDARDS

Compliant with AS/NZS 4058:2007 and AS/NZS 3725:2007

INTERNATIONAL STANDARDS

British and European Standards BSEN 1916.2002 and BS 5911.1.2002

USA Standard ASTM C76

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