



VT Lined Pipe



PE lined concrete pipe
for sewer applications.

Humes PE Lined Concrete Pipe

PE lined concrete pipe is now common place in most other parts of the world and is rapidly replacing the use of conventional concrete pipe for gravity sewer applications.

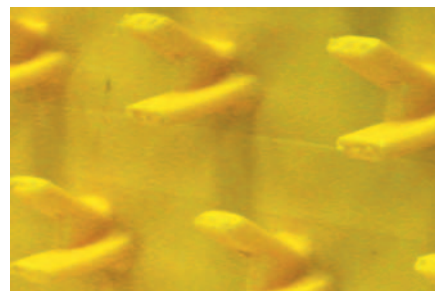
A key feature of Humes new VT concrete pipes is the ability to incorporate a PE liner. This provides a highly cost effective alternative to other pipe options for gravity sewers. Humes has the ability to make PE lined pipe from 600mm up to 4200mm and is currently providing lined pipe for projects in 900, 1050 and 1350mm sizes.

Pipes are produced with the liner incorporated into the pipe at the time of manufacture. Humes uses Agru Liners with a patented anchoring system. The staggered pattern for the studs provides the pull out resistance of 450KPa. For normal sewer situations, Humes recommend liner thickness is 2mm. Thicker liners can be used for aggressive sewers.

Lined pipes are laid in the conventional manner and when the pipes are put in place the liner is welded to the proceeding pipe to provide a continuous PE pipe. There are now a range of welding options and Humes is able to provide advice and coordinate this service.

Concrete pipe provides cost savings over alternative materials, with the added benefits of:

- Being designed and installed in line with the current practices for standard concrete pipe
- Higher loading capacity with reduced construction costs in bedding and backfill requirements
- Providing a minimum of 15mm cover to steel (5mm above the AS/NZ 4058 standard)
- A 2mm liner with a design life of 100 years when used in conjunction with structural concrete pipe
- An inert surface which is superior in performance to sacrificial wall concrete pipe
- Humes Technical Team can provide design advice around pipeline and liner requirements and installation



	The benefit of a PE lined concrete pipe is that it:
Established construction method	Is designed and installed in line with the current practices for standard concrete pipe
Meets cover to steel requirements	The Humes VT pipe still provides a minimum of 15mm cover to steel (5mm above the AS/NZ 4058 standard)
2mm liner	Provides a 2mm liner with a design life of 100 years when installed as part of a concrete pipe line
Inert surface	Provides an inert surface at only a marginal cost above a sacrificial walled concrete pipe
Humes design support	Humes can provide complete design advice around pipeline and liner requirements
Cost effective	Lower installed cost options
Pipeline strength	Strength and durability of concrete pipe surrounding the PE liner
Lined anchor system	Patented Agru liner system with pull out resistance of 450KPa
Liner jointing	Provides continuous PE pipe lining
Structural integrity	100 year design life on AS/NZ 4058 concrete pipe

For further technical details or advice freephone 0800 502 112 or visit www.humes.co.nz

Buyers and users of the products described in this brochure must make their own assessment of the suitability and appropriateness of the products for their particular use and the conditions in which they will be used. All queries regarding product suitability, purpose or installation should be directed to the nearest Humes Sales Centre for service and assistance. © Fletcher Concrete and Infrastructure Limited 2010. Printed 09/10.

