



# TYTON Piping

Dimax is leading the civil industry forward with its all new TYTON Piping range. Manufactured to the highest tolerances, we've engineered this ductile iron range specifically for Australian conditions. With a wide selection of sizes, linings and corrosion protection options available, there is a pipe to suit your exact requirements.



# Index

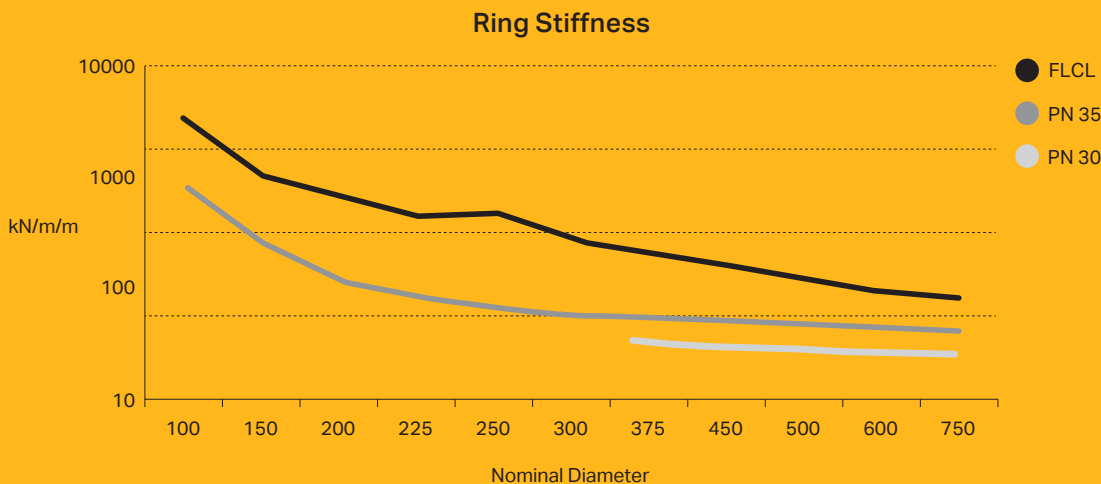
The Ductile Advantage	04
XCEL Specifications	06
XTREME Specifications	07
Dimax Z+ Coating	08
Dimax XCEL Z+	10
Dimax XTREME Z+	12
Dimax XCEED Lining	14
Dimax XCEED Z+	16
Our Technical Services	19
Quality Assurance	20
Notes	22



# The Ductile Advantage

Ductile iron remains the most versatile pipe material available today. Its established long-term durability, impact strength and ability to withstand high pressures and crushing loads has made it the material of choice for the water industry around the world. Ductile iron is also environmentally inert and completely recyclable. It leaves behind zero non-biodegradable waste at the end of its century-plus design life.

The Dimax TYTON range offers versatility across a wide range of pipeline demands – whether determined by the application or the specification. Dimax ductile iron pipe can be used above or below ground, plus its inherent performance means you can safely specify it even if future demands may change from specifications today.



## Ductile iron guarantees safety:

The natural ductility of Dimax TYTON piping gives it a high capacity for absorbing work or energy. This means our ductile iron pipes and fittings have a high safety margin, allowing them to operate at up-rated pressures if future scenarios require it. Ductile Iron pipe include a safety factor of “3” when calculating wall thickness for required pressure.

### Structural design

- › The inherent structural strength of the pipe guarantees durability and reliability for long-term service.
- › The high factor of safety of ductile iron gives continued performance even if future demands change, for example through increased usage from housing developments.
- › The inherent material strength of ductile iron compensates for unforeseen environmental changes, for example change of land use or ground settlement.
- › Easy to design and specify.
- › Excellent resistance to second corner damage.
- › No long-term reduction in pipe stiffness.
- › Ductile iron takes the risk out of pipeline design.
- › Available with our exclusive Dimax Z+ 400 gsm ZnAlRE coating for active corrosion protection with self-healing properties and in most soils eliminates the requirement for PE Sleeving.

## High strength and stiffness

- › Our ductile iron piping is suitable for installation in open fields or high traffic load areas and can be laid at a variety of depths. The high material strength minimises the need for imported bedding and surround to reduce the impact on the environment.
- › Can be laid in narrow and/or shallow trenches.
- › Can be laid at a wide range of depths with no detrimental effect on the performance of the pipe.
- › Minimises risk due to unforeseen site hazards, such as second-corner damage.

## Long-term reliability

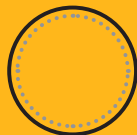
Through a continual program of developments and innovations, the failure rates of ductile iron systems have consistently reduced compared to alternative materials.

- › Reliable long term solution.
- › Can adapt to future changes in external load.



# XCEL Specifications

**TYTON XCEL sulphate resisting cement lined**



## TYTON XCEL PN35 CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281690	DICL PIPE D100 x 5.7 PN35	98	100
1281691	DICL PIPE D150 x 5.7 PN35	147	150
1281692	DICL PIPE D200 x 5.7 PN35	197	200
1281693	DICL PIPE D225 x 5.7 PN35	221	225
1281694	DICL PIPE D250 x 5.7 PN35	252	250
1281695	DICL PIPE D300 x 5.7 PN35	335	300
1281696	DICL PIPE D375 x 5.7 PN35	482	375
1281697	DICL PIPE D450 x 5.7 PN35	642	450
1281698	DICL PIPE D500 x 5.7 PN35	759	500
1281699	DICL PIPE D600 x 5.7 PN35	1021	600
1281700	DICL PIPE D750 x 5.7 PN35	1520	750

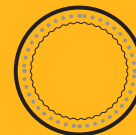
## TYTON XCEL PN30/25 CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281701	DICL PIPE D375 x 5.7 PN30	446	375
1281702	DICL PIPE D450 x 5.7 PN30	587	450
1281703	DICL PIPE D500 x 5.7 PN30	691	500
1281704	DICL PIPE D600 x 5.7 PN30	924	600
1281705	DICL PIPE D750 x 5.7 PN25	1237	750

## TYTON XCEL FLCL CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281706	DICL PIPE D080 x 5.7 K12		80
1281707	DICL PIPE D100 x 5.7 FLCL	131	100
1281708	DICL PIPE D150 x 5.7 FLCL	197	150
1281709	DICL PIPE D200 x 5.7 FLCL	289	200
1281710	DICL PIPE D225 x 5.7 FLCL	325	225
1281711	DICL PIPE D250 x 5.7 FLCL	397	250
1281712	DICL PIPE D300 x 5.7 FLCL	482	300
1281713	DICL PIPE D375 x 5.7 FLCL	662	375
1281714	DICL PIPE D450 x 5.7 FLCL	858	450
1281715	DICL PIPE D500 x 5.7 FLCL	950	500
1281716	DICL PIPE D600 x 5.7 FLCL	1224	600
1281717	DICL PIPE D750 x 5.7 FLCL	1793	750

**TYTON XCEL sulphate resisting cement lined & seal coated**



## TYTON XCEL PN35 CEMENT LINED + SEAL COAT

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281718	DI CSC PIPE D100 x 5.7 PN35	98	100
1281719	DI CSC PIPE D150 x 5.7 PN35	147	150
1281720	DI CSC PIPE D200 x 5.7 PN35	197	200
1281721	DI CSC PIPE D225 x 5.7 PN35	221	225
1281722	DI CSC PIPE D250 x 5.7 PN35	252	250
1281723	DI CSC PIPE D300 x 5.7 PN35	335	300
1281724	DI CSC PIPE D375 x 5.7 PN35	482	375
1281725	DI CSC PIPE D450 x 5.7 PN35	642	450
1281726	DI CSC PIPE D500 x 5.7 PN35	759	500
1281727	DI CSC PIPE D600 x 5.7 PN35	1021	600
1281728	DI CSC PIPE D750 x 5.7 PN35	1520	750

## TYTON XCEL PN30/25 CEMENT LINED + SEAL COAT

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281729	DI CSC PIPE D375 x 5.7 PN30	446	375
1281730	DI CSC PIPE D450 x 5.7 PN30	587	450
1281731	DI CSC PIPE D500 x 5.7 PN30	691	500
1281732	DI CSC PIPE D600 x 5.7 PN30	924	600
1281733	DI CSC PIPE D750 x 5.7 PN25	1237	750



**For potable, recycled & raw water**

Manufactured to AS2280 for Australian Water Industry. DN100 – DN750

TYTON XTREME calcium  
aluminate cement lined



## TYTON XTREME PN35 CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281734	DI CA PIPE D100 x 5.7 PN35	98	100
1281735	DI CA PIPE D150 x 5.7 PN35	147	150
1281736	DI CA PIPE D200 x 5.7 PN35	197	200
1281737	DI CA PIPE D225 x 5.7 PN35	221	225
1281738	DI CA PIPE D250 x 5.7 PN35	252	250
1281739	DI CA PIPE D300 x 5.7 PN35	335	300
1281740	DI CA PIPE D375 x 5.7 PN35	482	375
1281741	DI CA PIPE D450 x 5.7 PN35	642	450
1281742	DI CA PIPE D500 x 5.7 PN35	759	500
1281743	DI CA PIPE D600 x 5.7 PN35	1021	600
1281744	DI CA PIPE D750 x 5.7 PN35	1520	750

## TYTON XTREME FLCL CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281750	DI CA PIPE D100 x 5.7 FLCL	131	100
1281751	DI CA PIPE D150 x 5.7 FLCL	197	150
1281752	DI CA PIPE D200 x 5.7 FLCL	289	200
1281753	DI CA PIPE D225 x 5.7 FLCL	325	225
1281754	DI CA PIPE D250 x 5.7 FLCL	397	250
1281755	DI CA PIPE D300 x 5.7 FLCL	482	300
1281756	DI CA PIPE D375 x 5.7 FLCL	662	375
1281757	DI CA PIPE D450 x 5.7 FLCL	858	450
1281758	DI CA PIPE D500 x 5.7 FLCL	950	500
1281759	DI CA PIPE D600 x 5.7 FLCL	1224	600
1281760	DI CA PIPE D750 x 5.7 FLCL	1793	750

## TYTON XTREME PN30/25 CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281745	DI CA PIPE D375 x 5.7 PN30	446	375
1281746	DI CA PIPE D450 x 5.7 PN30	587	450
1281747	DI CA PIPE D500 x 5.7 PN30	691	500
1281748	DI CA PIPE D600 x 5.7 PN30	924	600
1281749	DI CA PIPE D750 x 5.7 PN25	1237	750



**For sewer and  
waste water**

Manufactured to AS2280 for Australian  
Water Industry. DN100 – DN750

# Goodbye sleeving. Hello profits.

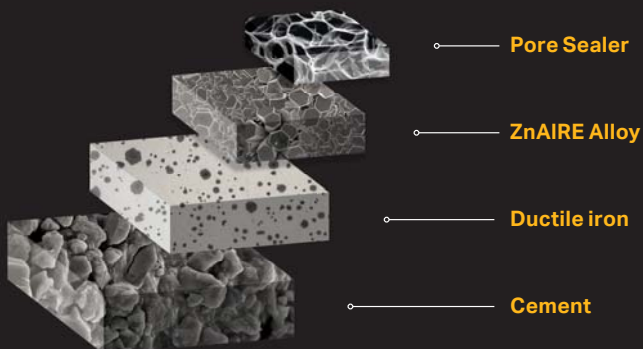
With our latest Dimax Z+ protective coating, sleeving of DI Pipe is becoming a thing of the past. Dimax Z+ is an active corrosion protection system which allows for quicker and safer installations by removing the requirements for sleeving and providing a more robust coating capable of handling the rigours of transport and installation.

Dimax's exclusive Z+ coating system further improves on this traditional formula to bring you the most advanced corrosion protection system available. The Dimax Z+ ZnAl Alloy has been engineered with a small percentage of rare earth metals to withstand Australian soil conditions. This unique Zinc-Aluminium-Rare Earth (ZnAIRE) Alloy enhances the galvanic effect that the standard ZnAl creates to actively protect the pipe.

The Z+ layer is hot sprayed directly onto the preheated ductile iron pipe, at a density of 400g per m<sup>2</sup>, then finished with a layer of epoxy to an average thickness of 80µm. Z+ maximises the life of your pipeline while eliminating the need for the manual application of polyethylene sleeving that can add significant time and labour costs at the point of installation.

A protective  
layer of epoxy  
applied at 100µm

Ductile iron

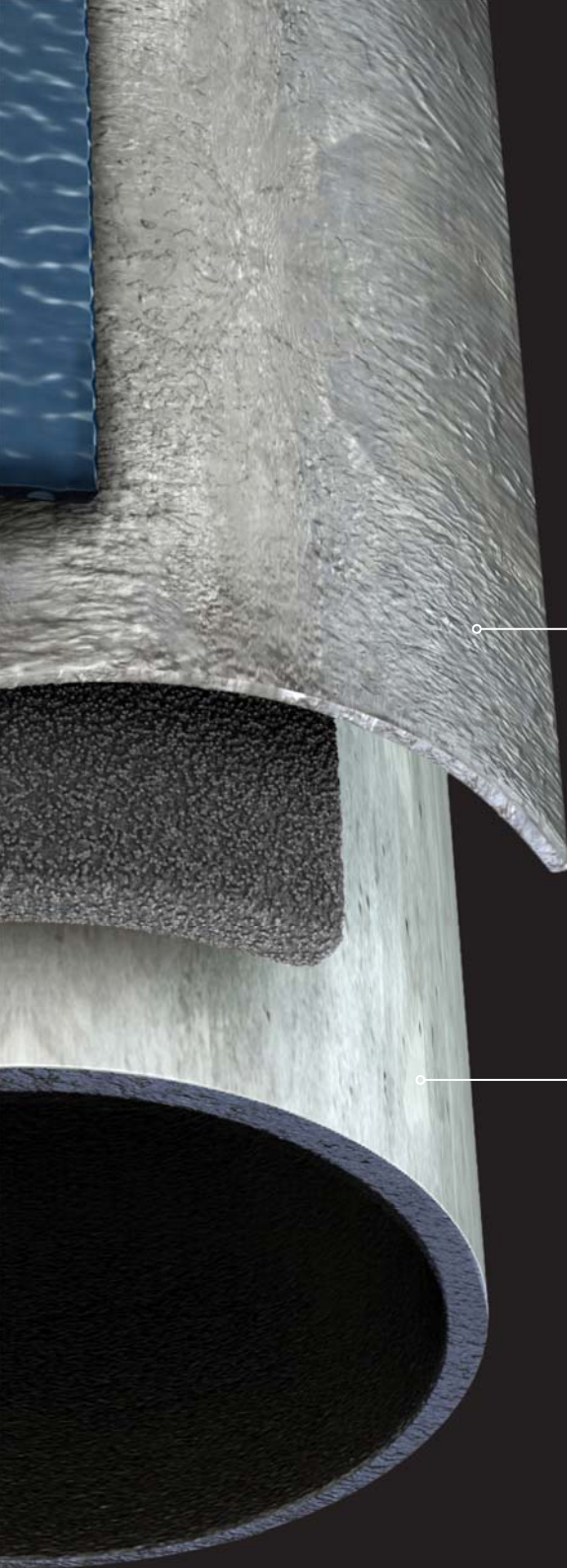


## All-round protection

The Z+ coating system has active properties that enable it to create a stable all-round protective layer when in contact with soil. The zinc hydroxides that form over the entire surface of the buried pipe restore the protective layer at points where it has been slightly damaged (impacts during transportation, scrapes when backfilling) This is achieved through the galvanic effect between the exposed iron and the ZnAIRE layer around the damage.

The perfect combination of aluminum and zinc considerably increases the strength of the protective properties of the outer layer. The high-quality zinc hydroxide layer can only form when the zinc transforms at an appropriate rate.

To achieve active protection, a finishing external epoxy paint layer is applied at an optimum thickness to complete the corrosion protection system. The presence of aluminium within the alloy slows the transformation rate and allows for the creation of a more stable protective layer compared to zinc alone thus achieving a design life in excess of 100 years even without sleeving where soil resistivity is greater than 500 ohm-cm.



An active protection layer  
of Zinc-Aluminium-Rare  
Earth Alloy applied at a  
density of 400g/m<sup>2</sup>

SR Cement mortar  
& seal coat

## Extended service

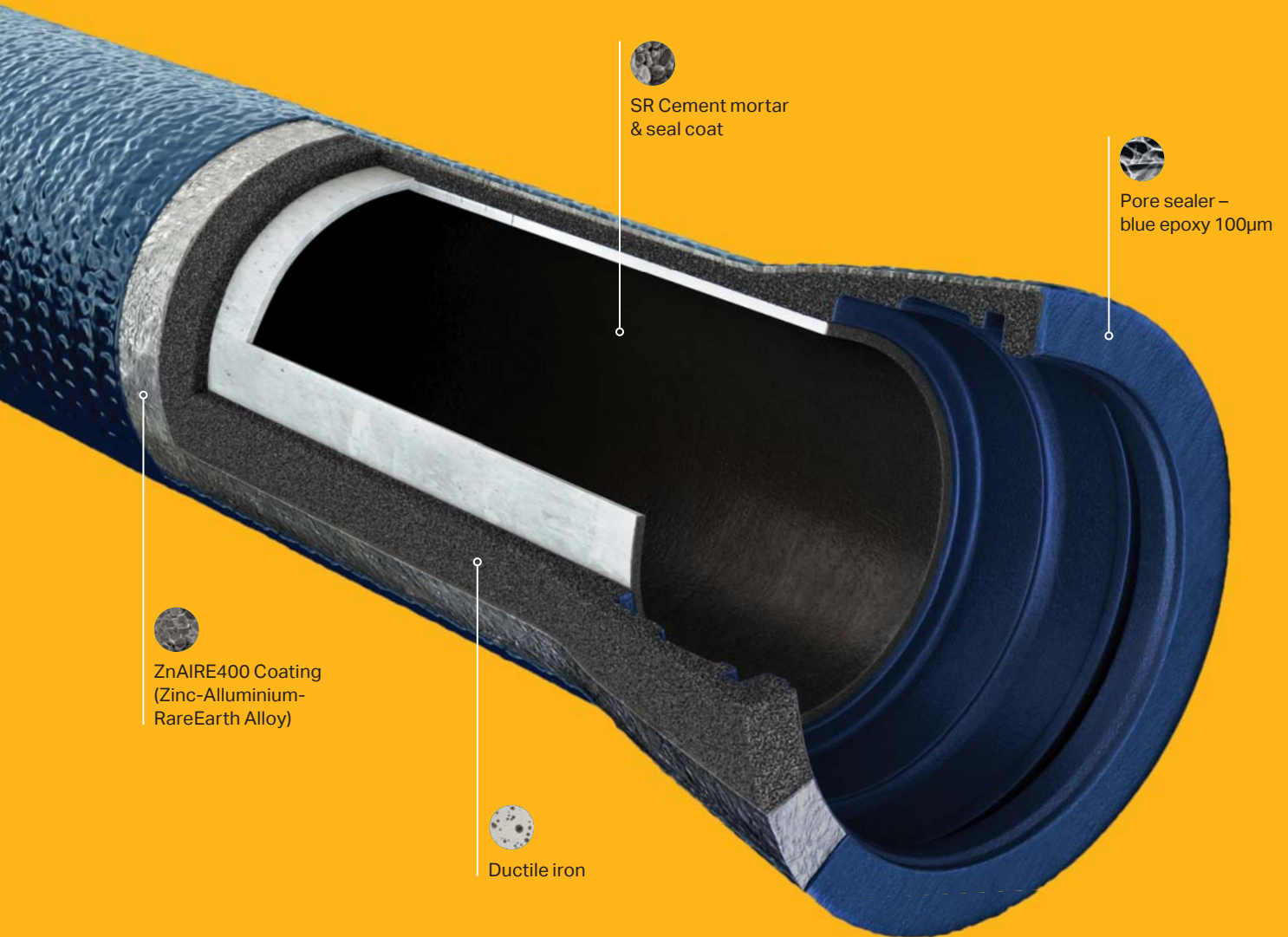
The Dimax Z+ coating will extend the service life of your pipeline by providing an active self-healing layer that prevents corrosion from forming. Pipes coated in a Z+ alloy may be buried in contact with the majority of soils, without the need for polyethylene sleeving.

Dimax offers a complimentary site soil test that can also be carried out to ensure soil suitability for the piping system.

# Dimax XCEL Z+

**TYTON XCEL Z+** ductile iron pipe utilises our unique Zinc/Aluminium metallic coating with Rare Earth Metals for its external protection. Finished with an 100µm blue epoxy, this coating has been engineered for cost effective sleeveless installation and protection against corrosion.

Available in pressure classes, PN 30 and PN 35, Dimax TYTON XCEL Z+ becomes the first class choice for efficiency gains and cost savings without sacrificing the superior performance capabilities associated with ductile iron pipeline systems. Complete with the time proven, robust TYTON JOINT® which provides flexibility, ease of installation and is your guarantee of quality.



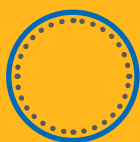
## For potable, recycled & raw water

Manufactured to AS2280 for Australian Water Industry. DN100 – DN750

## TYTON XCEL Z+ delivers the quality you demand with:

- ✓ Increased bores giving increased flows and reduced head losses result in lower pumping costs
- ✓ Faster laying times with no sleeving required, increased efficiency, and reduced cost means more savings
- ✓ Active corrosion protection with 400g per m2 ZnAIRE Alloy makes Z+ a longer lasting solution

## TYTON XCEL Z+ sulphate resisting cement lined



### TYTON XCEL Z+ PN35 CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281773	DICL PIPE D100 x 5.7 PN35 Z+	98	100
1281774	DICL PIPE D150 x 5.7 PN35 Z+	147	150
1281775	DICL PIPE D200 x 5.7 PN35 Z+	197	200
1281776	DICL PIPE D225 x 5.7 PN35 Z+	221	225
1281777	DICL PIPE D250 x 5.7 PN35 Z+	252	250
1281778	DICL PIPE D300 x 5.7 PN35 Z+	335	300
1281779	DICL PIPE D375 x 5.7 PN35 Z+	482	375
1281780	DICL PIPE D450 x 5.7 PN35 Z+	642	450
1281781	DICL PIPE D500 x 5.7 PN35 Z+	759	500
1281782	DICL PIPE D600 x 5.7 PN35 Z+	1021	600
1281783	DICL PIPE D750 x 5.7 PN35 Z+	1520	750

### TYTON XCEL Z+ PN30/25 CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281784	DICL PIPE D375 x 5.7 PN30 Z+	446	375
1281785	DICL PIPE D450 x 5.7 PN30 Z+	587	450
1281786	DICL PIPE D500 x 5.7 PN30 Z+	691	500
1281787	DICL PIPE D600 x 5.7 PN30 Z+	924	600
1281788	DICL PIPE D750 x 5.7 PN30 Z+	1237	750

### TYTON XCEL Z+ FLCL CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281789	DICL PIPE D100 x 5.7 FLCL Z+	131	100
1281790	DICL PIPE D150 x 5.7 FLCL Z+	197	150
1281791	DICL PIPE D200 x 5.7 FLCL Z+	289	200
1281792	DICL PIPE D225 x 5.7 FLCL Z+	325	225
1281793	DICL PIPE D250 x 5.7 FLCL Z+	397	250
1281794	DICL PIPE D300 x 5.7 FLCL Z+	482	300
1281795	DICL PIPE D375 x 5.7 FLCL Z+	662	375
1281796	DICL PIPE D450 x 5.7 FLCL Z+	858	450
1281797	DICL PIPE D500 x 5.7 FLCL Z+	950	500
1281798	DICL PIPE D600 x 5.7 FLCL Z+	1224	600
1281799	DICL PIPE D750 x 5.7 FLCL Z+	1793	750

## TYTON XCEL Z+ sulphate resisting cement lined & seal coated



### TYTON XCEL Z+ PN35 CEMENT LINED + SEAL COAT

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281800	DI CSC PIPE D100x5.7 PN35 Z+	98	100
1281801	DI CSC PIPE D150x5.7 PN35 Z+	147	150
1281802	DI CSC PIPE D200x5.7 PN35 Z+	197	200
1281803	DI CSC PIPE D225x5.7 PN35 Z+	221	225
1281804	DI CSC PIPE D250x5.7 PN35 Z+	252	250
1281805	DI CSC PIPE D300x5.7 PN35 Z+	335	300
1281806	DI CSC PIPE D375x5.7 PN35 Z+	482	375
1281807	DI CSC PIPE D450x5.7 PN35 Z+	642	450
1281808	DI CSC PIPE D500x5.7 PN35 Z+	759	500
1281809	DI CSC PIPE D600x5.7 PN35 Z+	1021	600
1281810	DI CSC PIPE D750x5.7 PN35 Z+	1520	750

### TYTON XCEL Z+ PN30/25 CEMENT LINED + SEAL COAT

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281811	DI CSC PIPE D375x5.7 PN30 Z+	446	375
1281812	DI CSC PIPE D450x5.7 PN30 Z+	587	450
1281813	DI CSC PIPE D500x5.7 PN30 Z+	691	500
1281814	DI CSC PIPE D600x5.7 PN30 Z+	924	600
1281815	DI CSC PIPE D750x5.7 PN25 Z+	1237	750

## Lining options

- TYTON XCEL Z+ features a centrifugally spun cement mortar lining made up of type SR (Sulphate Resisting) cement standard internal lining. Also available with an additional internal seal coat to inhibit the leaching of lime where very aggressive, soft waters of low hardness (total alkalinity <30mg/L) or high dissolved CO<sub>2</sub> are being conveyed.

## Technical Data

### Sizes

- DN100 – DN750

### Certification

- AS/NZS 2280 Ductile iron pipes and fittings.
- AS 4020 Testing of products for use in contact with drinking water

### End Connections

- TYTON® push-on rubber ring joint
- TYTON-LOK® gaskets are also available for restrained joints up to DN 375 rated to PN 16

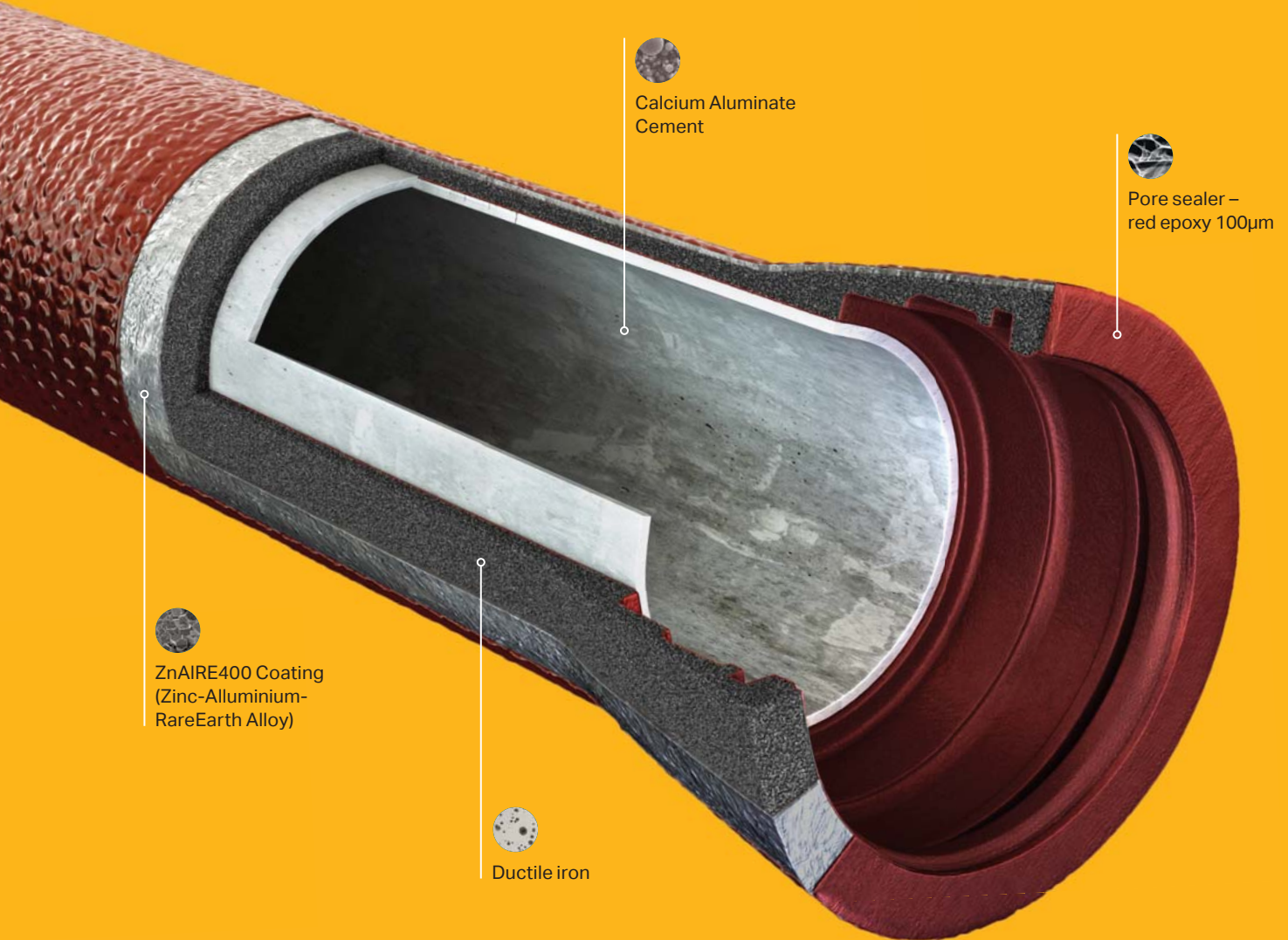
### External Coating

- Zinc-Aluminium-Rare Earth (ZnAlRE) Alloy – 400g per m<sup>2</sup>
- Blue epoxy – 100µm

# Dimax XTREME Z+

**TYTON XTREME Z+** ductile iron pipe utilises our unique Zinc/Aluminium coating with Rare Earth Metals for its external protection. Finished with an 100µm red epoxy external coating and an internal lining that provides high resistance to chemical attack and abrasion.

This is achieved by using Calcium Aluminate Cement (CAC) in lieu of Sulphate Resisting (SR) cement in the barrel lining. CAC is an effective lining for aggressive fluids with extreme pH values and/or abrasive solids. Combined with Dimax Z+ external protection, TYTON XTREME Z+ ductile iron pipes are a comprehensive and cost effective solution for wastewater transportation.



## For sewer & waste water

Manufactured to AS2280 for Australian Water Industry. DN100 – DN750

## TYTON XTREME Z+ delivers the quality you demand with:

- ✓ A lining suitable for the transport of sewage or aggressive waters with pH values of 4 to 12
- ✓ Faster laying – with no sleeving required, increased efficiency, and reduced cost means more savings
- ✓ Active corrosion protection with 400g per m<sup>2</sup> ZnAIRE Alloy makes Z+ a longer lasting solution

## TYTON XTREME Z+ calcium aluminate cement lined



### TYTON XTREME Z+ PN35 CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281816	DI CA PIPE D100x5.7 PN35 Z+	98	100
1281817	DI CA PIPE D150x5.7 PN35 Z+	147	150
1281818	DI CA PIPE D200x5.7 PN35 Z+	197	200
1281819	DI CA PIPE D225x5.7 PN35 Z+	221	225
1281820	DI CA PIPE D250x5.7 PN35 Z+	252	250
1281821	DI CA PIPE D300x5.7 PN35 Z+	335	300
1281822	DI CA PIPE D375x5.7 PN35 Z+	482	375
1281823	DI CA PIPE D450x5.7 PN35 Z+	642	450
1281824	DI CA PIPE D500x5.7 PN35 Z+	759	500
1281825	DI CA PIPE D600x5.7 PN35 Z+	1021	600
1281826	DI CA PIPE D750x5.7 PN35 Z+	1520	750

### TYTON XTREME Z+ PN30/25 CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281827	DI CA PIPE D375x5.7 PN30 Z+	446	375
1281828	DI CA PIPE D450x5.7 PN30 Z+	587	450
1281829	DI CA PIPE D500x5.7 PN30 Z+	691	500
1281830	DDI CA PIPE D600x5.7 PN30 Z+	924	600
1281831	DI CA PIPE D750x5.7 PN25 Z+	1237	750

### TYTON XTREME Z+ FLCL CALCIUM ALUMINATE CEMENT LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281832	DI CA PIPE D100x5.7 FLCL Z+	131	100
1281833	DI CA PIPE D150x5.7 FLCL Z+	197	150
1281834	DI CA PIPE D200x5.7 FLCL Z+	289	200
1281835	DI CA PIPE D225x5.7 FLCL Z+	325	225
1281836	DI CA PIPE D250x5.7 FLCL Z+	397	250
1281837	DI CA PIPE D300x5.7 FLCL Z+	482	300
1281838	DI CA PIPE D375x5.7 FLCL Z+	662	375
1281839	DI CA PIPE D450x5.7 FLCL Z+	858	450
1281840	DI CA PIPE D500x5.7 FLCL Z+	950	500
1281841	DI CA PIPE D600x5.7 FLCL Z+	1224	600
1281842	DI CA PIPE D750x5.7 FLCL Z+	1793	750

## Lining options

- TYTON XTREME Z+ features a Calcium Aluminate Cement (CAC) mortar lining. This lining protects the internal surface from corrosion, tuberculation and bacteriogenic acid attack when conveying aggressive fluids common in sewage and wastewater pipelines.
- CAC is recommended for sulphate levels up to saturation for continuous pH values down to 4 and for hydrogen sulphide levels up to 10mg/L.

## Technical Data

### Sizes

- DN100 – DN750

### Certification

- AS/NZS 2280 Ductile iron pipes and fittings

### End Connections

- TYTON® push-on rubber ring joint
- TYTON-LOK® gaskets are also available for restrained joints up to DN 375 rated to PN 16

### External Coating

- Zinc-Aluminium-Rare Earth (ZnAlRE) Alloy – 400g per m<sup>2</sup>
- Red epoxy – 100µm

# Unrivalled performance. Any application.

Designed to handle the most demanding applications, polyurethane (PU) linings further extend the performance of ductile iron pipe applications.

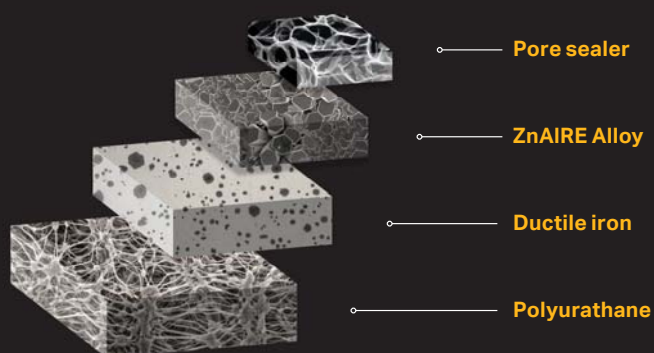
Manufactured with a factory applied polyurethane internal lining, the Dimax XCEED range of ductile iron pipes deliver unrivalled versatility. The biggest advantage of the Dimax XCEED lining is the range of fluids it can handle. The internal PU layer protects the internal walls of the pipe against corrosion and allows for the transportation of almost any type of fluid from pH1 up to pH13.

As well as handling the entire Ph range, XCEED PU Lining has no effect on water chemistry. Even when total dissolved solids are less than 1mg/L and combined with extremely long residence times, Dimax XCEED will continue to perform.

With this non-reactive internal lining, the quality of the medium and the lifespan of the piping system are never compromised. This capability extends from highly filtered, potable and recycled water right through to sewer and industrial applications.

A protective layer  
of black epoxy  
applied at 100µm

Ductile iron



## XCEED lining

With an average thickness of 1300-1500µm, pipes utilizing an internal polyurethane lining also benefit from an overall larger internal bore. Being just a fraction of the thickness of cement and similar linings, a pipe with the same external diameter can have a far greatly improved internal diameter thanks to the thinner internal lining.

Another key benefit of using a ductile iron pipe that has been lined with polyurethane is the greatly improved smoothness of the internal bore. The surface roughness of the polyurethane lining is 10 times lower than cement-lined pipes, resulting in a much greater flow rate for the water being transported.

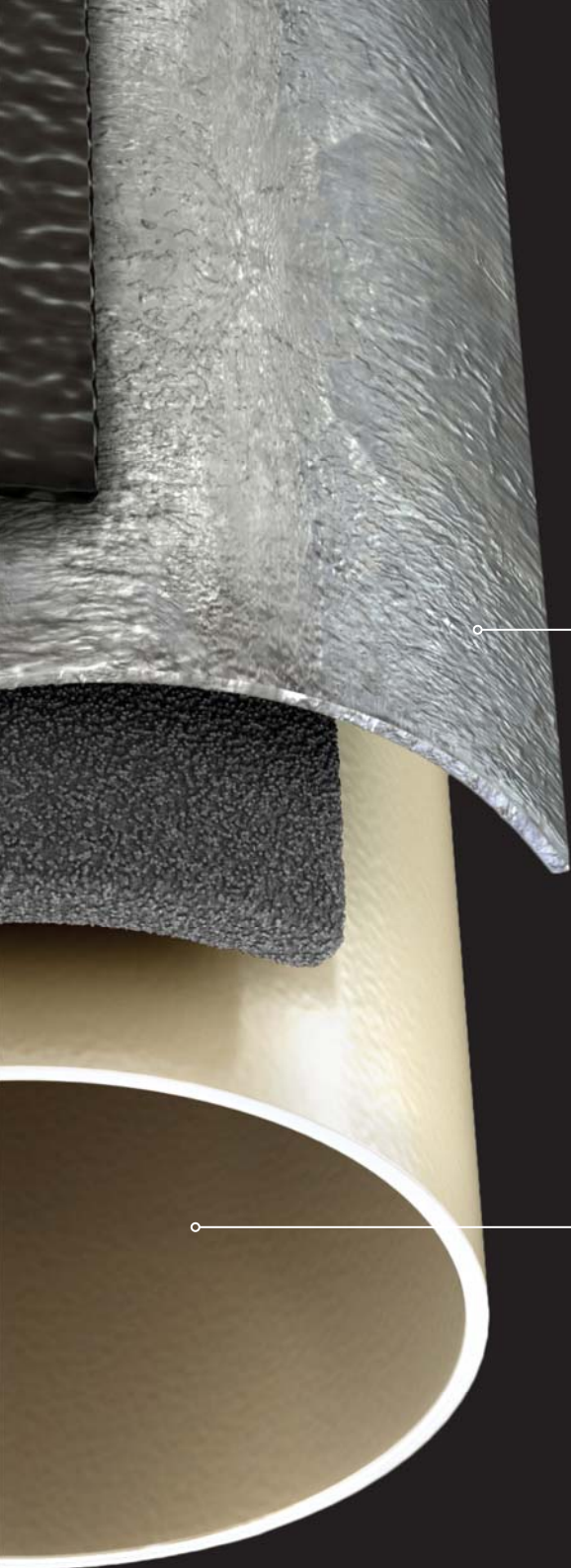
In some applications it is even possible to opt for a smaller overall pipe diameter and still achieve the desired flow rates thanks to this larger internal bore and smoother lining. This has the benefit of reducing overall material and installation expenses, including trenching costs as well as system operation costs due to lower flow resistance allowing for more efficient pumping.

By eliminating cement from ductile iron pipes, the overall weight of the pipe is also greatly reduced, also resulting in reduced freight and installation.

# XCEED

15

— TYTON PIPE SYSTEMS



○ — An active protection layer of Zinc-Aluminium-Rare Earth Alloy applied at a density of 400g/m<sup>2</sup>

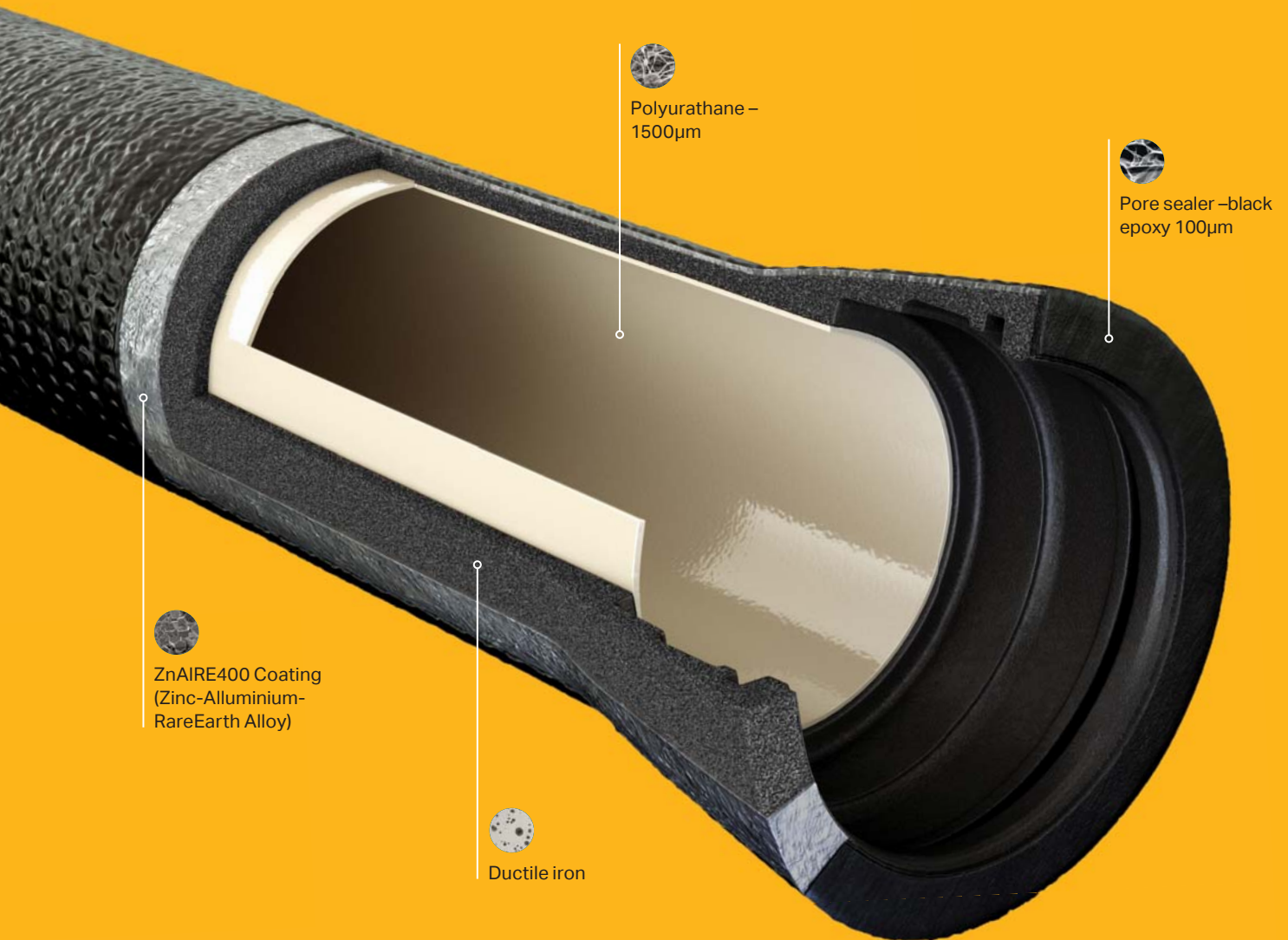
○ — Internal polyurathane lining of 1500µm

# Dimax XCEED Z+

**TYTON XCEED Z+** features our unique Zinc-Aluminium-Rare Earth alloy finished with a black epoxy pore sealer. Providing protection against the most aggressive soils, Z+ eliminates the need for PE sleeving.

What sets XCEED Z+ apart is its polyurethane internal lining. Polyurethane is state of the art in polymeric linings, preserving water quality whilst protecting the bore against aggressive conveyants. Due to the thickness of its polyurethane layer, the ductile iron pipe is fully protected against the most aggressive water as well as during transport and handling operations.

With an average lining thickness of 1300-1500µm, and combined with our Z+ coating, TYTON XCEED Z+ is suitable for more than 95% of the most frequently encountered ground types and applications.



## For all water applications

Manufactured to AS2280 for Australian Water Industry. DN100 – DN750

## TYTON XCEED Z+ delivers the quality you demand in situations with:

- ✓ Very soft water (hardness less than 1mg/L) combined with extremely long residence times, where a seal coated cement mortar coating is not sufficient
- ✓ Mineral water, i.e. water whose chemical specifications must remain unchanged between the pipeline inlet and outlet
- ✓ Aggressive conveyants including septic sewage, high CO<sub>2</sub>, chlorides, sulphates, brine Suitable for use in most aggressive soils without the need for loose polyethylene sleeving.

## TYTON XCEED Z+

polyurathane lined



### TYTON XCEED Z+ PN35 POLYURATHANE LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281854	DI PUR PIPE D100x5.7 PN35 Z+	77	100
1281855	DI PUR PIPE D150x5.7 PN35 Z+	115	150
1281856	DI PUR PIPE D200x5.7 PN35 Z+	155	200
1281857	DI PUR PIPE D225x5.7 PN35 Z+	173	225
1281858	DI PUR PIPE D250x5.7 PN35 Z+	199	250
1281859	DI PUR PIPE D300x5.7 PN35 Z+	271	300
1281860	DI PUR PIPE D375x5.7 PN35 Z+	403	375
1281861	DI PUR PIPE D450x5.7 PN35 Z+	548	450
1281862	DI PUR PIPE D500x5.7 PN35 Z+	655	500
1281863	DI PUR PIPE D600x5.7 PN35 Z+	897	600
1281864	DI PUR PIPE D750x5.7 PN35 Z+	1332	750

### TYTON XCEED Z+ PN30/25 POLYURATHANE LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281865	DI PUR PIPE D375x5.7 PN30 Z+	367	375
1281866	DI PUR PIPE D450x5.7 PN30 Z+	492	450
1281867	DI PUR PIPE D500x5.7 PN30 Z+	586	500
1281868	DI PUR PIPE D600x5.7 PN30 Z+	799	600
1281869	DI PUR PIPE D750x5.7 PN25 Z+	1048	750

### TYTON XCEED Z+ FLCL POLYURATHANE LINED

CODE	DESCRIPTION	WEIGHT (KG)	DIAMETER (MM)
1281870	DI PUR PIPE D100x5.7 FLCL Z+	111	100
1281871	DI PUR PIPE D150x5.7 FLCL Z+	166	150
1281872	DI PUR PIPE D200x5.7 FLCL Z+	248	200
1281873	DI PUR PIPE D225x5.7 FLCL Z+	279	225
1281874	DI PUR PIPE D250x5.7 FLCL Z+	346	250
1281875	DI PUR PIPE D300x5.7 FLCL Z+	420	300
1281876	DI PUR PIPE D375x5.7 FLCL Z+	585	375
1281877	DI PUR PIPE D450x5.7 FLCL Z+	765	450
1281878	DI PUR PIPE D500x5.7 FLCL Z+	847	500
1281879	DI PUR PIPE D600x5.7 FLCL Z+	1101	600
1281880	DI PUR PIPE D750x5.7 FLCL Z+	1607	750

## Technical Data

### Sizes

- › DN100 – DN750

### Certification

- › AS/NZS 2280 Ductile iron pipes and fittings.

### End Connections

- › TYTON® push-on rubber ring joint
- › TYTON-LOK® gaskets are also available for restrained joints up to DN 375 rated to PN 16

### Internal Lining

- › Polyurethane – 1300-1500µm (average)

### External Coating

- › Zinc-Aluminium-Rare Earth (ZnAlRE)  
Alloy – 400g per m<sup>2</sup>
- › Black epoxy – 100µm



# Our Technical Services

To provide you with cost effective solutions that perform, Dimax offers full project life support – from early design advice and soil surveys right through to drawing take-offs and on-site. We even offer installation certification for contractors and engineers. Our end-to-end approach is designed to give customers absolute confidence across the project.

## Design calculators

Viadux is well known for providing industry leading design calculators to assist customers in the selection of the most ideal and effective ductile iron pipe solution for a given project. These calculators provide a quick reference for pipeline design by taking into account pipe size, class, material strength, pressures, flow, ground conditions and much more.

## Century plus

This program gives water utilities and contractors confidence that pipes and fittings will be installed effectively and in optimum condition. The program offers contractors hands-on training in handling, storing, installing and commissioning TYTON® Series ductile iron pipes and fittings. A process of on-site valuation and assessment of actual installation is used to support the certification of contractors successfully completing the program.

## Soil surveys

The Reece Group can arrange a detailed soil assessment along the route of a proposed pipeline. The results of the assessment provide a detailed analysis of ground conditions, allowing the most appropriate external protection system to be specified.

## Drawing take-off service

A team of experienced civil estimators is available to carry out drawing take-offs, providing a detailed list of products required. The service includes optimisation of design to ensure that the most cost-effective solution is achieved. Dimax accepts drawings in electronic format. Please consider the following instructions for use of this facility:

- › All drawings need to be compatible with AutoCAD2002/2004
- › All drawings sent should relate only to pipework for off-take
- › All drawings need to be 'clean', i.e., drawings to fill the whole screen in a reasonable and printable size
- › To avoid delays in dealing with requests, please ensure that the relevant sections of the specification are sent at the same time as the drawings, either by mail or e-mail.

## Technical support

Technical support is available to all existing and potential customers. Our experienced team of engineers have a broad range of expertise and can advise on:

- › Product and material compatibility
- › Installation and testing
- › Embedment and hydraulic flow

# Quality Assurance

Quality is at the heart of the Dimax business – which is why we're uncompromising in our approach. From detailed metallurgical analysis of the molten metal to tight control of coating and lining applications. We've developed procedures that ensure consistent high quality in each individual pipe and fitting. Additionally, every pipe and fitting is pressure tested in accordance with AS/NZS 2280. Through our quality approach, we protect the reputation of our customers.

- › Validation of suppliers and/or their materials
- › Continuous assessment of quality systems
- › On-going monitoring of product quality
- › Technical support prior to and after sales
- › On-time delivery of products and supporting information



## Compliance with standards

The Reece Group products comply with and are tested in accordance with relevant Australian, British, European and International Standards. All pipes and fittings are manufactured under the quality management system ISO 9001, 2000.

All Dimax TYTON ductile iron pipes and fittings for water and wastewater applications conform to the latest version of AS/NZS 2280. Development of pipes and fittings can take place across Viadux Water Network Solutions and our suppliers. As such, third party accreditation is always achieved with the relevant auditing body e.g., BSI in the UK, Bureau Veritas (BV) in France, MPA-NRW in Germany and SAI Global in Australia. All of these certification bodies are also independently accredited, for example BSI is accredited by UKAS. In addition, all materials in contact with potable water used by The Reece Group comply with AS/NZS 4020.

## Positively appraised: WSAA recommended

The Water Services Association of Australia National Product Appraisals program is a voluntary scheme introduced by the WSAA to provide a single coordinated appraisal of a product's conformity to the needs of the urban water businesses.

The program is designed for manufacturers, suppliers, importers, distributors or agents who have a product that may be suitable for use by the water industry and is a process of assessment and review of the design, performance and suitability of a product for use in water and wastewater infrastructure at a nominated performance level.

Included is a review of the quality management system under which the product is manufactured and supplied. Applicants are provided with a report and recommendations resulting from the assessment and review. Final authorisation, approval or acceptance for use of the product lies with the individual water businesses.



## Notes





Call 1300 VIADUX (842 389)  
or visit [www.viadux.com.au](http://www.viadux.com.au)  
for your nearest branch.

Call 1800 032 566 or visit  
[www.reece.com.au/civil](http://www.reece.com.au/civil)  
for your nearest branch.

