Vinidex
by aliaxis

StormFLO®
by Vinidex

A durable, high-performance
PE stormwater and drainage pipe.

StormFLO range is available at Reece.

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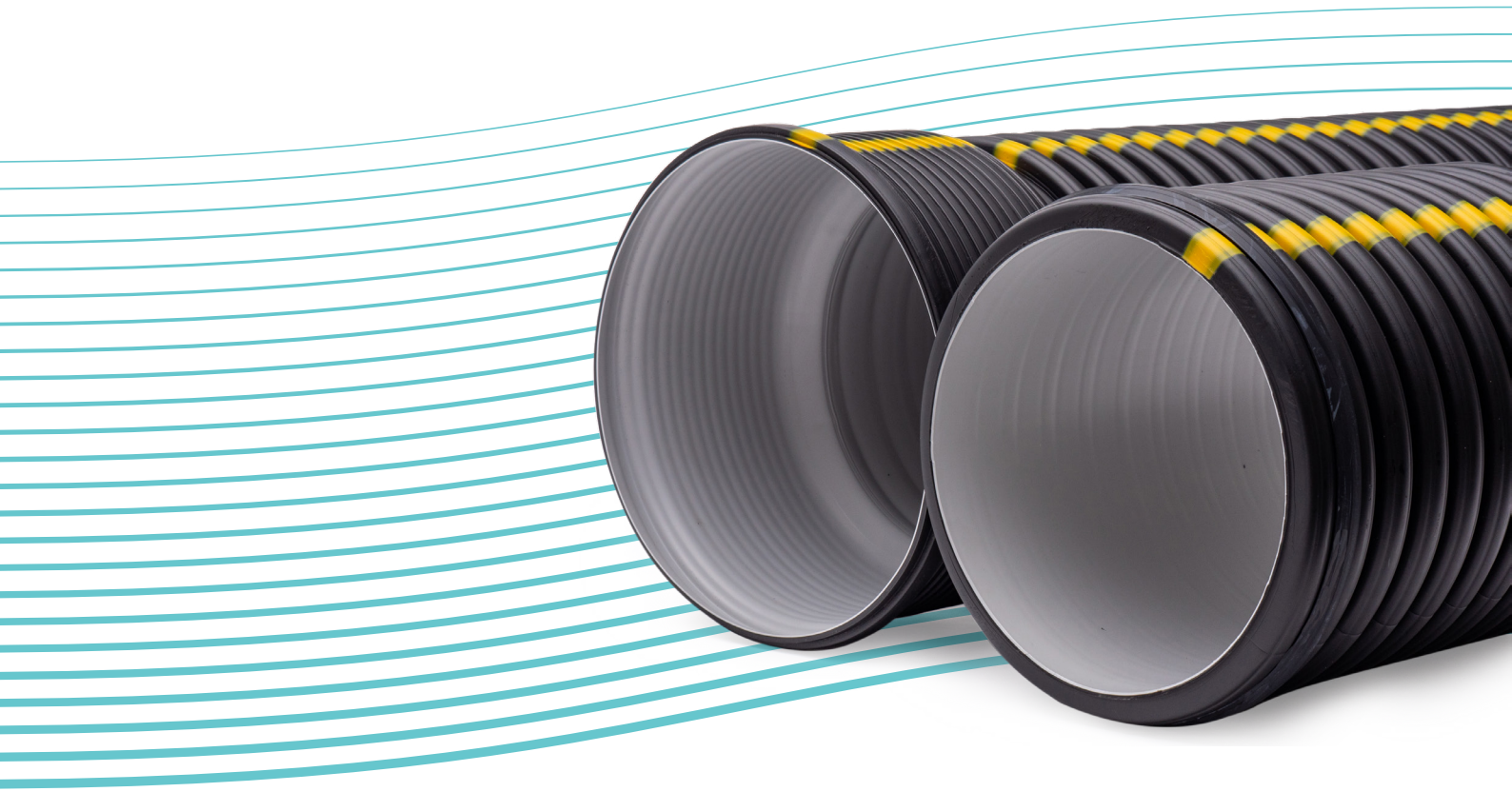
Introducing StormFLO® by Vinidex

As leaders in manufacturing and advanced pipeline systems, we're constantly innovating our products to improve performance and meet the needs of our customers.

StormFLO is a durable twin-wall corrugated polyethylene pipe for non-pressure stormwater and drainage applications. Used in projects across Australia, StormFLO is safe and easy to handle, durable and lasting, and approved by authorities, making it the proven performer for your next project.

StormFLO by Vinidex is made right here in Australia and designed for all Australian conditions.



Key features and benefits of StormFLO twin-wall PE pipes

Uncompromising performance

StormFLO is made to stringent Australian Standards (AS/NZS 5065) and has excellent hydraulic performance.

Safe and easy to handle

StormFLO is lighter than concrete pipe, easy to handle, and produces no silica dust when cut.

Durable and lasting

StormFLO has a 100-year design life and is recyclable at the end of life, making it a sustainable solution that stands the test of time.

Includes up to 65% recyclate

Every length of StormFLO pipe contains at least 30%, and up to 65% of post-consumer recyclate that may otherwise go to landfill, making it an environmentally sound choice.

Tested for 100-year design life

Vinidex is the only Australian manufacturer using the UCLS test method to ensure StormFLO meets its 100-year design life requirements, even with the inclusion of recyclate.

Approved by authorities

StormFLO has been approved for use by several road and rail authorities nationally, making it the trusted name in underground stormwater pipe solutions.

Australian made

StormFLO is locally made for all Australian conditions.

Available through Reece stores

StormFLO is available at selected Reece Civil stores. Get the best of both worlds – the industry benchmark in service with the versatility of StormFLO pipes.

Construction applications

Land development

Ground drainage, stormwater for sub-divisions and new residential development.

Rail

Stormwater run-off.

Plumbing

Commercial and domestic.

Roads

Infrastructure, stormwater, asset renewal.

Mining

Stormwater and aggressive ground.

Rural

Culverts and land drainage.

Discover the benefits of recycled twin wall PE pipes over traditional concrete pipes

StormFLO by Vinidex provides a variety of benefits that traditional concrete pipes cannot match.

More versatile

StormFLO pipes are more versatile than concrete pipes. Under the right conditions, Vinidex SN8 pipe can be used as an alternative to multiple classes of concrete pipes.

Lightweight for fast installation

Unlike heavy concrete pipe alternatives, StormFLO plastic pipes are lighter and more flexible, resulting in faster installation times that deliver additional cost saving benefits.

Smooth and efficient water flow

StormFLO pipes have a smoother internal surface, increasing the efficiency of water flow and reducing the pipe size diameter required compared to traditional concrete pipes.

Flexible and durable

Unlike concrete pipes that must be capable of fully supporting any applied loading, when StormFLO pipes are subjected to loading, the pipe will initially deflect and take advantage of the lateral pressure provided by the surrounding soil. After initial settlement, there is no further increase in pipe deflection.

Case study

North Eastern Link Project (NELP)

Vinidex partnered with Spark NELP to trial StormFLO by Vinidex under a trafficable road, aiming to demonstrate a sustainable engineered solution, and its suitability for the Department of Transport and Planning (DTP) road network. Successful completion could lead to approval for DTP assets.

Testing involved installing pipes perpendicular to the road in the Bulleen Road Temporary Diversion assessing the impact of constant traffic on StormFLO 375mm nominal diameter pipes. Vinidex oversaw installation, providing additional CCTV monitoring during and after construction.

The trial and subsequent report outlines findings on installation, trench design, internal diameter and deflection under construction traffic loads on a DOT asset.

The trial has demonstrated that StormFLO Civil performed excellently during installation and over three inspections. If the temporary road was to continue to operate, there is no indication the pipe wouldn't be operational for decades to come — meeting its 100-year design life.

A full report will be sent to Spark NEL representatives for review with a post review release sent to DTP Victoria for assessment and comment. Additional CCTV will be conducted in 12 months to review the effects of trafficable loads.

StormFLO Specification Guide

StormFLO Twin-wall PE pipe specification

StormFLO Dimensional data and specs										Lubrication per joint			
SKU	Pipe Dia. (mm)	Pipe OD (mm)	Pipe ID (mm)	Socket OD (mm)	Socket ID (mm)	Socket depth (mm)	Pipe length (m)	Effective length (m)	Weight / Length (kg)	Diameter	Approx. Joints/ 500ml	Approx. Joints/ 1kg	Approx. ml/ Joint
29520	225	252	218	262	256	137	6.10	5.96	19	225	13	26	38
29521	300	344	294	356	348	179	6.05	5.88	29	300	9	19	56
29522	375	423	363	440	430	231	6.02	5.79	47	375	8	15	63
29523	450	504	435	522	510	230	6.00	5.78	73	450	6	12	83
29524	525	601	519	621	608	278	5.96	5.69	100	525	5	10	100
29525	600	688	589	711	699	345	5.90	5.56	113	600	4	8	125

Construction loading

The table below shows the minimum cover requirements for StormFLO for short-term construction loading.

SKU	DN	Vibratory Rammer 75kg	Vibratory Smooth Drum Roller 7T	15T Excavator with Compaction Wheel	Vibratory Trench Roller 2T	Vibratory Smooth Drum Roller 10T	25T Excavator with Compaction Wheel
29520	225	500mm	500mm	500mm	500mm	500mm	700mm
29521	300	500mm	500mm	500mm	500mm	500mm	700mm
29522	375	500mm	500mm	500mm	500mm	500mm	700mm
29523	450	500mm	500mm	500mm	500mm	500mm	700mm
29524	525	500mm	500mm	500mm	500mm	550mm	750mm
29525	600	500mm	500mm	500mm	500mm	550mm	750mm

Minimum cover for long term loading

The minimum pipeline cover should be selected to ensure design live loads (long-term traffic and short-term construction equipment) are not concentrated, but instead are distributed over an adequate area. Structural design calculations to AS/NZS 2566.1 can be carried out to determine the required minimum cover or alternatively, ASNZS 2566.2 provides guidance in the table below:

Minimum cover H*	Minimum cover H*mm
Not subjected to vehicle loading	300
Land zoned for agriculture	600
Subject to vehicular loading -	
a) no carrigeway;	450
b) sealed carriageway; and	600
c) unsealed carriageways	750
Pipelines in embankments or subject to construction equipment loads	750

**Subject to variation by relevant asset owner. Under cultivated agrivculture land H should not be less than 0.6m. Railway crossings shall comply with AS 4799.*

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To find out more about StormFLO, scan the QR code or contact our friendly customer service team on **13 11 69** or **sales@vinidex.com.au**

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