

# Fast Efficient Flexible Smart

Product Overview



**James Hardie**  
Concrete Pipes

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# Fast Efficient Flexible Smart

When it comes to reinforced concrete pipes, nothing can compare to HardiePipe™ concrete pipes.

Fast, at 4 metres long HardiePipe™ concrete pipes offer significant installation speed benefits over conventional steel reinforced concrete pipes. Efficient, because at about half the weight per metre of conventional steel reinforced concrete pipe, HardiePipe™ delivers easier handling and increased efficiency during installation. Flexible, because the range of HardiePipe™ fittings avoids unnecessary pits saving time and money. Smart, patented technologies that have been engineered to create reinforced concrete pipe products and systems that lead the world.





Find out more about this project at  
[www.jameshardiepipes.com.au](http://www.jameshardiepipes.com.au)

HardiePipe™ concrete pipe  
Hope Island, QLD

**As we embrace the latest technology, processes and sustainable construction trends, smart designers, developers and contractors continue to move away from the conventional, less efficient forms of construction.**

### Smarter Construction

This is about cost-effective building through the smart combination of products, systems and processes. And it can be achieved without making sacrifices. We strongly believe that our products and systems enable faster, efficient and cost effective construction.

Not all concrete pipes are equal. Not only is HardiePipe™ concrete pipe classified as a Reinforced Concrete Pipe (RCP) – it is longer and lighter than conventional steel RCP. Combine these benefits with a comprehensive range of fittings and accessories that also improve efficiency and reduce construction times and you have a system that is indeed ‘Smart’.

### Smarter Design

It’s our way of assisting designers achieve a sustainable and cost-effective outcome for a project. From providing tools that make specification easier to supplying the worlds smartest concrete products. Products that deliver higher flow capacities, lighter and longer pipe lengths and systems that provide innovative cost effective solutions.

Original, inventive solutions like SlimDrain™, HardieAquifer™ and SuperTite™ drainage systems provide smart design solutions for common project challenges.

### Smarter Partner

A program designed to support our customers at all levels.

This includes our Customer Service Commitment that ensures we provide easy access to the people and information you need.

**For contractors** we offer:

- Construction cost comparison calculators
- Industry leads to help introduce you to more projects
- Installation training
- Product strength demonstrations using our unique live load simulator

**For designers and specifiers** we conduct “in-house” Smarter Design presentations and a comprehensive range of Smart Design initiatives. (see Smart Design section above)

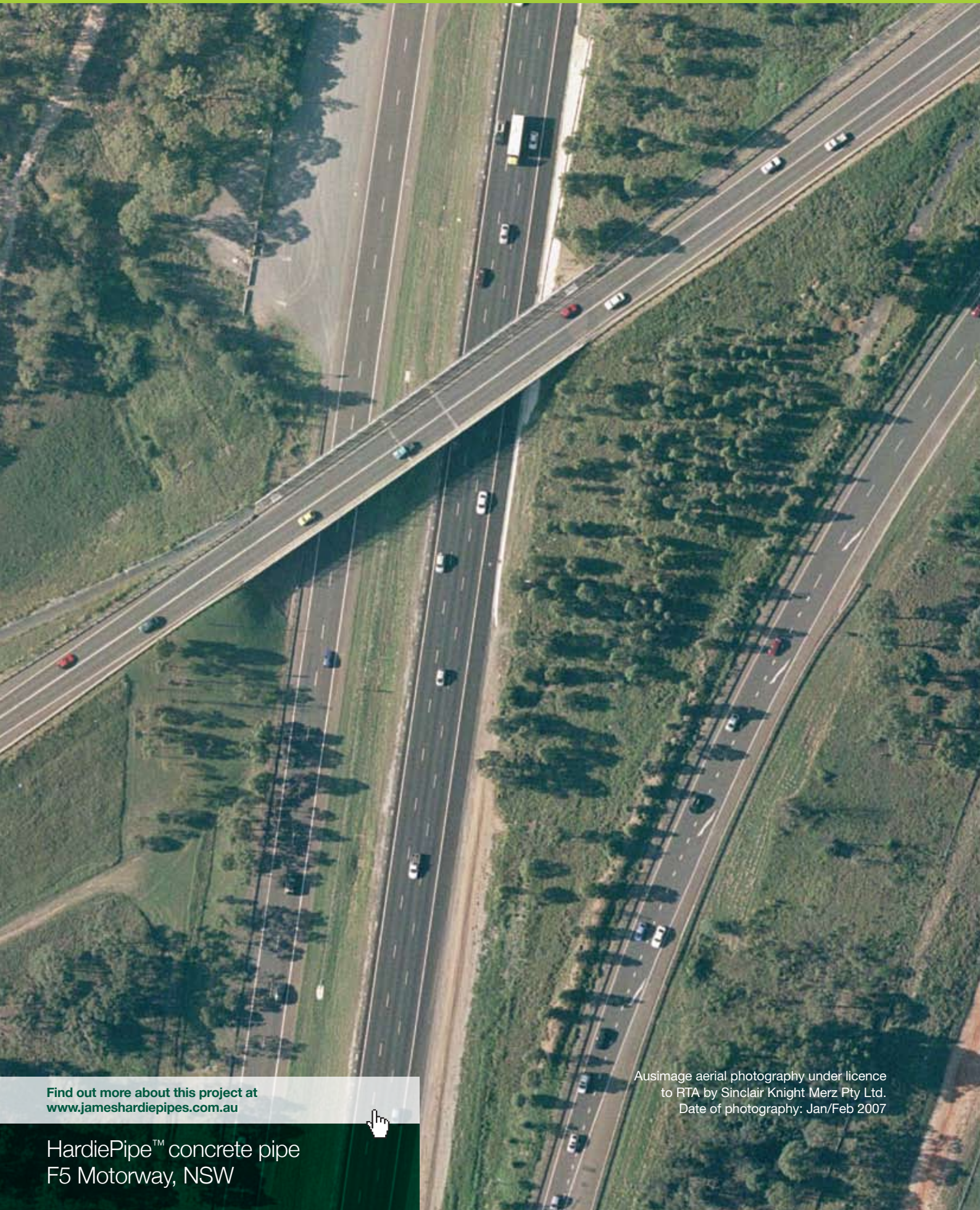
**For our resellers** we provide support with:

- National, state and regionally based sales and marketing initiatives to generate demand for our products
- Direct account management support from our highly skilled sales representatives
- Industry project leads at store and/or regional level
- Efficient product transportation and logistics support



Go online to download software and access to the latest design information  
[jameshardiepipes.com.au](http://jameshardiepipes.com.au)

# STORMWATER PIPES AND FITTINGS



Find out more about this project at  
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HardiePipe™ concrete pipe  
F5 Motorway, NSW

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# HardiePipe™

## CONCRETE PIPES & FITTINGS

**Today the Smart thinking is towards modern concrete pipe design and construction. At the forefront of this new technology is the ground-breaking range of HardiePipe™ concrete pipes and fittings.**

As a result of our ongoing research and development the HardiePipe™ product range has revolutionised modern construction practices. Light, long, adaptable and strong features enable speed of construction efficiencies that deliver real cost benefits.



**“HardiePipe™ concrete pipes were the natural choice. With the 4m length pipes, we were able to complete the stormwater drainage much faster”**

**Steven Tinellis – Project Manager  
Nace Civil Engineering**

### Longer Lengths

HardiePipe™ concrete pipes are manufactured in standard 4m lengths, as opposed to the standard 2.44m lengths of SRC pipes. The longer lengths of HardiePipe™ concrete pipes reduce the number of laying operations during pipeline installation, which allows faster laying and significant savings. This is demonstrated in a straight 100m run which would require only 25 lengths of HardiePipe™ concrete pipe instead of 40 lengths of SRC pipe.

### Smart

Versatile – The Smart range of HardiePipe™ bends, junctions and reducers avoid unnecessary pits saving you time and money. Use our saddle connectors to join smaller PVC pipes directly into HardiePipe™ wherever you want.

### Safe

- HardiePipe™ concrete pipes are delivered, stacked and packed in safety crates
- Store large quantities of pipe in a limited space
- Easy and quick movement and handling

### Durable

As HardiePipe™ concrete pipes do not contain steel, the risk of steel corrosion is not present. The autoclaved chemical structure ensures good resistance to saltwater and acidic soil attack, making it ideal for saltwater or marine applications.

### Lightweight Composition

At about half the weight per metre of steel reinforced concrete (SRC) pipe, the inherent ‘Strong, Light and Long’ features of HardiePipe™ concrete pipes translate to:

- Easier handling,
- Cost effective, easy transportation; and
- Efficient installation.

### Strong

HardiePipe™ concrete pipes meet and exceed the strength capacity required by AS3725:2007 – *Design for installation of buried concrete pipes*. The impressive long-term capabilities of HardiePipe™ concrete pipes is attributed in part to their unique deflection capability, and its ability to gain extra load capacity by engaging support from the surrounding soil in which it is buried.

# DESIGN SOLUTIONS



Find out more about this project at  
[www.jameshardiepipes.com.au](http://www.jameshardiepipes.com.au)



SlimDrain™ drainage system  
WestGate Freeway VIC

**The Smart thinking and use of smart technologies in our core HardiePipe™ range is equally evident in the product innovations of our design solutions and components.**

We recognise that the integration of quality componentry delivers tangible drainage design benefits. This has been the driving force behind the intensive development of our range of designed solutions and components.

This comprehensive and innovative collection retains all the inherent qualities of our unique technology. James Hardie concrete pipes, fittings and componentry – Flexible, Strong, Fast, and of course Smart.

James Hardie’s unique approach to innovation has resulted in a suite of product solutions which will give your project an edge. These solutions help designers achieve smart design outcomes in a unique way.

SITUATION	SOLUTION	
Subsoil drainage	HardieAquifer™	✓
Disposal system	SaniShute™	✓
Surface water drainage system	SlimDrain™	✓
Suspended drainage system	SuperTite™	✓



“With SlimDrain™ we simply install the pipe using conventional processes and place the grate in later”

Glenn Dunstone – Drainage Team Leader  
WestGate Freeway Alliance

# DESIGN SOLUTIONS

SMART

## HardieAquifer™ Subsoil Drainage



**HardieAquifer™ concrete pipes in action on a NSW rail project.**



**HardieAquifer™ concrete pipes have a slotted design for infiltration and durable concrete strength is ideal for subsoil applications where ground water may be an issue.**

## HardieAquifer™ subsoil drainage slots straight into your WSUD solution.

- HardieAquifer™ concrete pipes
- HardieAquifer™ soakwell pits
- HardieAquifer™ swale pits

The HardieAquifer™ subsoil drainage system is the ideal answer to ground dewatering in a variety of applications. Cleverly constructed using the same durable concrete technology as HardiePipe™ concrete pipes, HardieAquifer™ subsoil drainage pipes are slotted to enable water from the surrounding soil to enter.

The strength of HardieAquifer™ subsoil drainage pipes allow them to withstand greater loads than alternative products, and have been proven on railway ballast drainage and permeable road pavement drainage sites, as well as numerous Water Sensitive Urban Design projects. Fully integrating this innovative system is made easy thanks to a complementary range of pits.

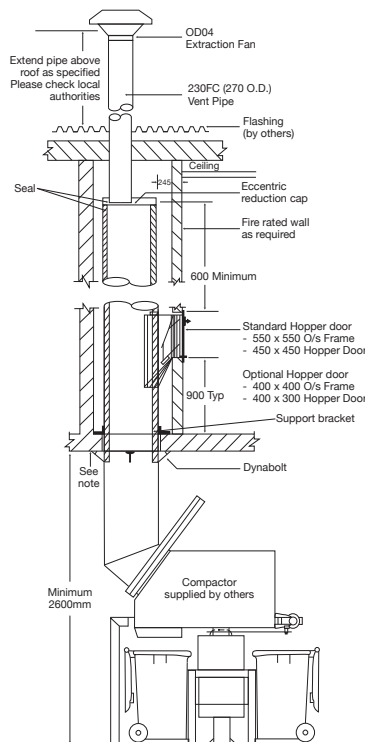
**SaniShute™**  
Disposal System

## Efficiency at your disposal with the SaniShute™ system.

- Purpose-engineered for multi-level buildings
- Snag-free, corrosion-free shaft
- Low noise

The SaniShute™ disposal system for multi-level buildings eliminates many problems associated with traditional refuse and linen chute designs. At its core is the durability of James Hardie concrete pipes, providing a dent and chip-free surface. Plus, with no steel in their construction, the solid concrete chute will remain corrosion free forever, as well as reducing noise often experienced with thinner metal designs.

Powered by gravity, the smooth inner walls of the concrete pipes allow a snag free delivery. Whereas others incorporate rivets or welded joints, SaniShute™ disposal system has rebated joints to keep the internal core completely free of obstructions. The system is available as a kit that can be fitted both externally or internally.



James Hardie's SaniShute® Systems suit most compactor systems. Please check with manufacturers.



**SaniShute™ disposal system is powered by gravity. The smooth inner walls of the concrete pipes allow a snag free delivery.**

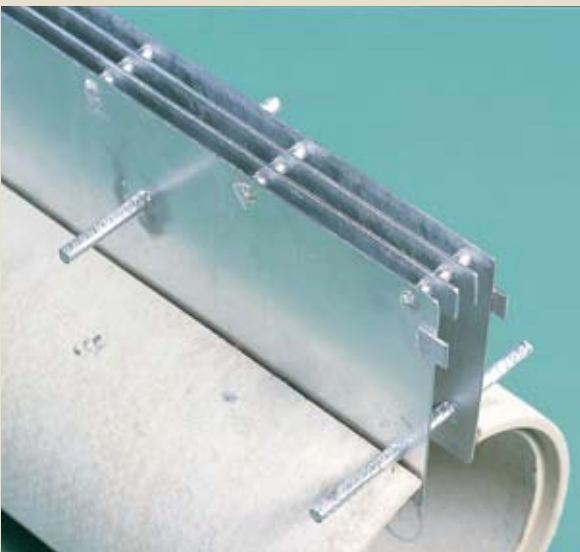
# DESIGN SOLUTIONS

SMART

**SlimDrain™**  
Drainage System



**SlimDrain™ drainage system is finished flush to the roadway, ensuring a smooth 'bikesafe' surface, with pipe sizes flexible to suit the site hydraulics.**



**A riser and grate box are fitted into a continuous slot atop a reinforced concrete pipe.**

## **SlimDrain™ drainage system for a safer road surface.**

- Safe and cost effective
- Eliminates vehicle hazards through surface water
- Provides smooth 'bikesafe' surface

Using a continuous or semi-continuous narrow grate, the revolutionary SlimDrain™ drainage system helps eliminate dangerous surface 'sheet' stormwater commonly found in large paved areas. This ponding effect can cause loss of vehicle control and is often seen in traditional continuous gullies and pits.

SlimDrain™ drainage system consists of a riser and grate box, fitted into a continuous slot in the top of a reinforced concrete pipe. This pipe is concreted in place up to the surface, allowing a smooth 'bikesafe' grate, flush with the roadway. Various pipe sizes allow excellent hydraulics to suit the application, and the system's compatible grate lengths, robust design and 2-hour fire rating confirm its durability.

SlimDrain™ drainage system provides a safe, attractive and cost-effective solution to surface stormwater.

## SuperTite™

Suspended Drainage System

### Hang tough with SuperTite™ drainage systems.

- Durable above-ground suspended drainage
- Unique leak-free joint system
- High performance, fire resistant design
- Extensive range of fittings

The durable SuperTite™ suspended drainage system brings together smart design and fast installation to give the ultimate above-ground stormwater solution. Suited to a range of projects, SuperTite™ suspended drainage system is constructed using high-performance reinforced concrete pipe, with its unique joint design providing a leak-resistant continuous pipeline. All pipes and fittings exhibit a 4-hour fire rating, making them perfect for fire critical applications such as bridges, car parks and basements.



“SuperTite™ pipes are extremely easy to cut and work with – essential in a job with lots of tight bends.”

Stuart Betts  
Project Manager – Ajax Plumbing



# DESIGN SOLUTIONS

## MEADRAIN™



The modular MEADRAIN™ system can be adapted to suit, with architecturally styled 'pedestrian friendly' grates available.

### The MEADRAIN™ drainage system channels a variety of uses.

- Strong, lightweight polymer concrete
- Economical modular design
- Quick installation

The MEADRAIN™ drainage system uses a strong and flexible polymer concrete to create a modular drainage solution that is both durable and cost effective. Because of its versatility, it is ideal for a range of applications including suburban drainage, petrol stations, car parks and airport tarmacs. Coupled with MEADRAIN™ polymer concrete pits and risers, the system allows effective line drainage and electrical pit capabilities.

Grates are available as both heavy duty and lightweight materials to suit the application – including galvanized steel, stainless steel, ductile iron and plastic. Installation is quick and the MEADRAIN™ polymer concrete makes handling easier than heavier concrete alternatives.

MEADRAIN™ polymer concrete makes handling easier than heavier concrete alternatives.



## Experience the Q-Guard™ treatment.

- Advanced stormwater treatment system
- Durable pre-cast modular construction
- Fast, easy installation
- User-friendly design

The Q-Guard™ Ultra stormwater treatment device represents a major step forward in stormwater treatment technology. Made from pre-cast concrete and stainless steel, the system provides superior treatment of stormwater runoff in a robust and manageable unit. The smart design of Q-Guard™ enables fast and easy installation at a shallow depth, connecting to a variety of pipes with its range of components. The rectangular shape aids good pavement compacting and hinged dual lids allow simple inspection at ground level.

Q-Guard™ provides ultra fast stormwater treatment with high flow rates and a unique user-friendly design. As a result, many councils and developers are installing the benefits of this advanced treatment device.



**The durable modular pre-cast concrete allows Q-Guard™ to provide a simple install footprint.**

**The smart design of Q-Guard™ enables fast and easy installation at a shallow depth.**

# ACCESSORIES



Learn more about our product innovations at  
[www.jameshardiepipes.com.au](http://www.jameshardiepipes.com.au)

Research and development  
at James Hardie.

SITUATION	SOLUTION	
Connections	Pits	✓
Inlets	Precast Grated Units	✓
Outlets	Headwalls	✓

**Behind every James Hardie® concrete pipe is a range of Smart accessories. Together they combine to provide solutions to almost any civil drainage application.**

**Pits**

Allowing seamless integration and flow from surface to pipe, the James Hardie range of pit systems has been created specifically to suit each product and scenario. From the clever slotted HardieAquifer™ pit systems to circular HardiePipe™ roofwater drainage pits and the pre-cast adaptability of the FlexiPit™ system – all have been designed to collect in the most efficient way possible.

**Precast Grated Units**

Making installation smarter and faster, the James Hardie range of precast grated units saves time and money. Made from precast steel reinforced concrete, the range includes road gully units, ‘V’ grates, standard grated frame units and converter roof slabs.

**Headwalls**

James Hardie provides an extensive range of pre-cast steel reinforced concrete headwalls for various applications. Walls are available with single, double or triple outlets and in sizes ranging from 225mm to 750mm diameter.



**JAMES HARDIE**



James Hardie® is a world leader in the production and innovation of engineered stormwater drainage solutions and building products.

#### James Hardie®

A world leader in the production and innovation of engineered stormwater drainage solutions and building products. Combining high quality and high performance, our product range delivers 'smart', cost effective, solutions to our clients.

Using technical and manufacturing expertise based on our fibre cement technology first pioneered in Australia in the 1980s, we have continued to grow into a progressive global company. Today, our products generate more than A\$1.5billion revenue each year, with manufacturing operations in the United States, Australia, New Zealand and the Philippines.

The benefits inherent in our technology continue to deliver real value throughout design, installation and operation. Our stormwater drainage range of concrete pipes and fittings has a solid reputation for quality and innovation. Faster installation, versatile fittings and a durable, corrosion-proof system have seen our concrete pipes successfully used in a wide range of government, commercial, infrastructure and subdivision projects across Australia.

With a natural resource at the core of our operation, James Hardie is committed to supporting the principles of Ecologically Sustainable Development (ESD). We have invested considerably in ongoing research and development to reduce energy, water and pollution in all levels of our operation. As a founding participant in the Commonwealth Government's Greenhouse Challenge to voluntarily reduce greenhouse gas emissions, we consider the entire life cycle of our products, and the responsible use of raw and process materials to protect our natural environment.

As we further improve and evolve our product range, we will continue to look towards new ways to develop our technology. Our commitment remains to provide real benefits to those who install our products as well as those who ultimately use them.

Ask James Hardie™  
Call 1800 659 850  
[www.jameshardiepipes.com.au](http://www.jameshardiepipes.com.au)

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