

Access  
Engineering

**SURE-STEP**<sup>®</sup>  
Step Iron



Designed and Manufactured in Australia

[www.industrialsteps.com](http://www.industrialsteps.com)



**INDUSTRIAL**  
STEPS & LADDERS

# The History of Industrial Steps & Ladders



**Industrial Steps & Ladders** is an Australian owned innovative access engineering company.

First established in Perth in 2001, the company is a national and international participant in the field of access engineering.

With the encouragement of several civil engineering contractors in Western Australia to address an urgent need in pit access, Industrial Steps and Ladders Pty Ltd

invented and patented the **ADD-A-STEP®** Ladder. **ADD-A-STEP®** is now a leader in the access entry market.

## Step Development

Sales of steps commenced in 1994 by ISL's predecessor company. The technology of these products was based entirely on galvanised steel. In 1998 the company developed a galvanised steel and polypropylene composite product which provided improved corrosion properties.

Using a combination of galvanised steel and superior engineering polymers, **Sure-Step®** is the result of the development through 2010 to meet the future market and standards for step irons. This design offers corrosion resistance, a wide non – slip tread and is available for sewerage and storm water.

This brochure describes the range of **Sure-Step®** step irons and their many practical benefits in sewerage and storm water applications



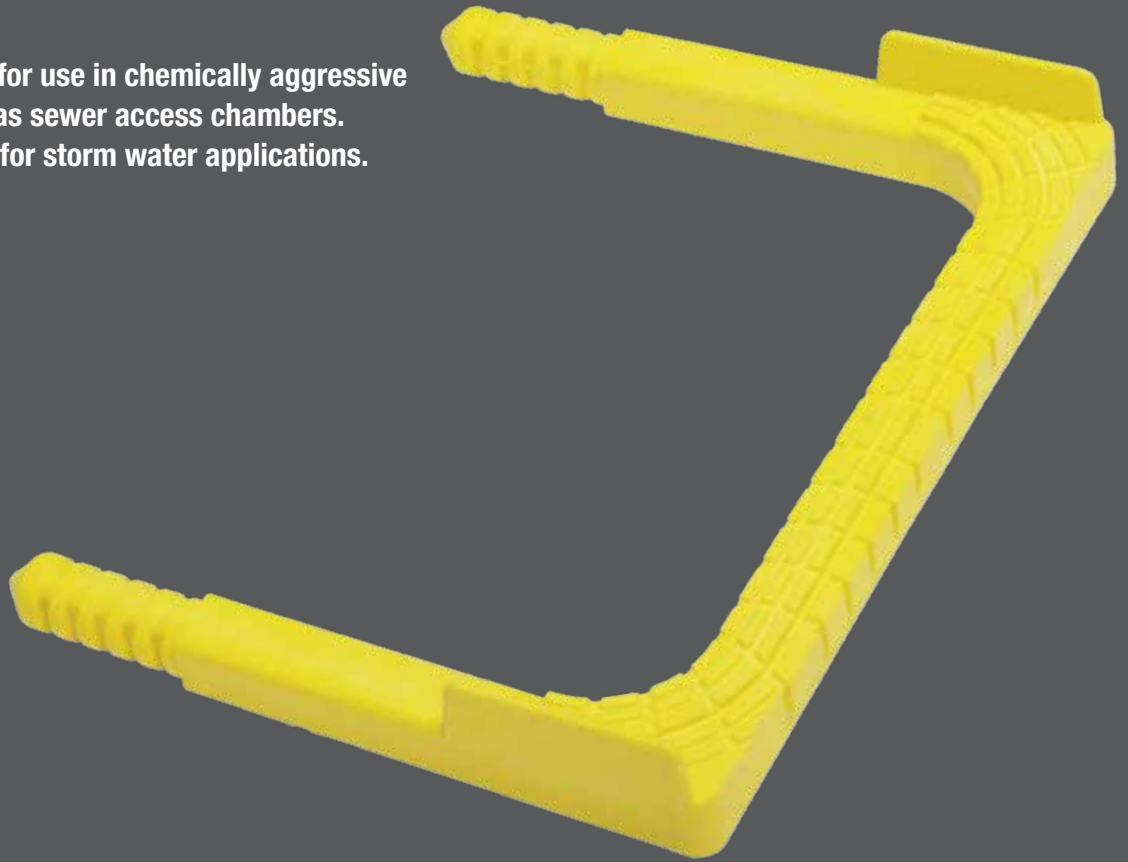
## Partially Encapsulated **Sure-Step®** Step Irons

For use in storm water and general applications

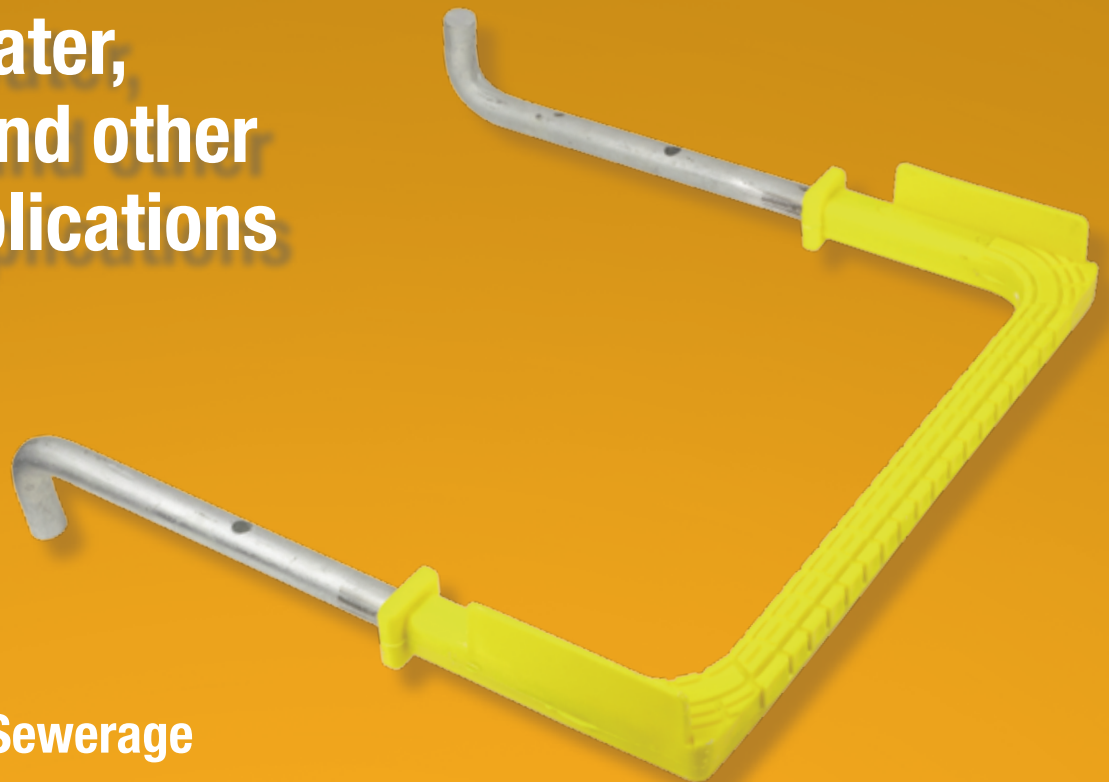
**400mm Boltin  
(centre to centre)  
Storm Water  
Code M010**

# ***Sure-Step*<sup>®</sup> Fully Encapsulated Step Iron**

Recommended for use in chemically aggressive locations such as sewer access chambers. Is also suitable for storm water applications.



**For Stormwater,  
Sewerage and other  
General Applications**



**400mm Brickin  
(centre to centre)  
Stormwater and Sewerage  
Code M011**

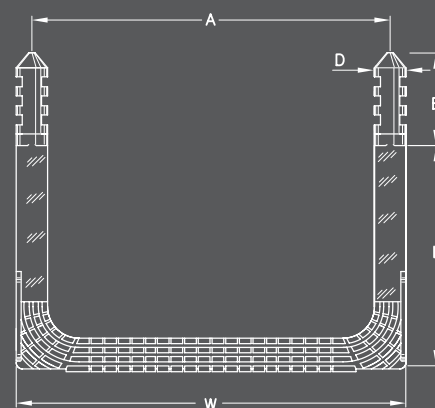
# The *Sure-Step*<sup>®</sup> Package

The *Sure-Step*<sup>®</sup> step iron was designed to provide a product that could be supplied off the shelf for next day delivery.

There are 4 sizes of the Fully Encapsulated *Sure-Step*<sup>®</sup> products available.

The following chart provides details of the various sizes and their dimensions

*Sure-Step*<sup>®</sup> is despatched in boxes containing ten step irons.



Product Code	M051	M052	M053	M054
Hole Centres (A) nominal	400mm	375mm	286mm	225mm
Overall Width (W)	425mm	400mm	311mm	250mm
Exposed Leg Length (L)	175mm	175mm	175mm	175mm
Embedded Leg Length (E)	70mm	70mm	70mm	70mm
Diameter (D)	26mm	26mm	26mm	26mm

## An Alternative to Steel – Quality Assured



The design of the *Sure-Step*<sup>®</sup> plastic encapsulated step iron complies with EN13101-2002 and AS1657-2018 standards. All the components are manufactured in an Australian quality controlled manufacturing facility.

The *Sure-Step*<sup>®</sup> step iron is approved by a number of prominent Water Authorities to meet their special performance requirements for use in sewerage applications.

Raw materials used in the production of *Sure-Step*<sup>®</sup> are sourced only from leading global suppliers who comply with international standards. The injection

moulding process used to manufacture the product components is computer controlled to exacting tolerances.

**Industrial Steps & Ladders** is a Quality Assured Supplier. The quality manual and procedures are audited annually and certified by Bureau Veritas Australia to AS/NZS ISO 9001:2015





# Design and Manufacturing

**Sure-Step®** has been designed for the following applications

- factory fit pre-cast concrete
- fitted or fixed into concrete manholes during construction
- fitted into pre-cast manholes and secured at the construction site into ferrules cast into the manholes.

**Sure-Step®** is manufactured from a polymer which complies with EN13101-2002 and with a continuous central galvanised steel support for the full length of the step iron.

The fully encapsulated **Sure-Step®** side arm and rung section is 26mm (nominal) square. The 70mm embedment length is delineated by a change to a ribbed and rounded profile being 26mm (nominal) diameter.

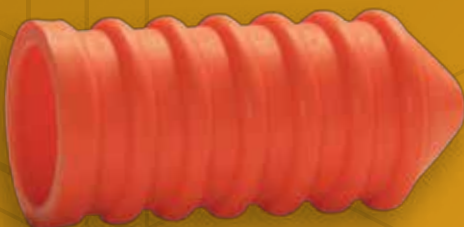
Each side arm has a 25 mm high raised section at the rung end to prevent side slippage. The rung has a grooved non – slip pattern moulded into the tread to limit frontal and rear slippage.

**Sure-Step®** is marked with the trade name and the relevant standard and date of manufacture on the rung.

The **Sure-Step®** polymer overlay component is manufactured using a computer controlled injection moulding process. As the overlay process is semi-automatic every **Sure-Step®** product is inspected for conformance at the manufacturing and packing stage of the process.

**Sure-Step®** has been designed to be used in stormwater, sewerage and other general access applications. The design of **Sure-Step®** was optimised to offer a high quality product at a competitive price.

## Ferrules (Plugs) – Two Types



Depending on the end users requirements either the square face or the angle face ferrules can be used.



These ferrules allow for insertion or removal of the plastic encapsulated stepirons as required.

# Plastics – Materials for the Future

Plastics are one of the most resource efficient and versatile materials available to society and make a significant contribution to achieving the goals of sustainable development.

Products made from plastics provide an affordable alternative to traditional materials and give the community access to a higher standard of living.

Importantly the plastics industry helps to save resources, fossil fuel and energy. Plastic products also save water and preserve food. Plastics only consume a small fraction of the world's oil as feedstock – just 4%.

Plastics are too valuable to waste after serving a useful life. Plastics can either be recycled or used as an alternative fuel. Plastic waste has a calorific value at least equal to coal and with lower CO<sub>2</sub> emissions.

## The Benefits of *Sure-Step*<sup>®</sup>

- Correct selection of high performance materials ensure *Sure-Step*<sup>®</sup> to comply with EN13101-2002 and AS1657-2018.
- All *Sure-Step*<sup>®</sup> step irons have a hot dipped galvanized steel support providing superior resistance to corrosion compared with conventional step irons.
- All components are manufactured in Australia thereby providing security of supply
- The design incorporates a non slip tread and resistance to side slippage.
- No painting or other protective coating required.
- Products can ultimately be recycled
- Comprehensive Product Range.

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*Sure-Step*<sup>®</sup> is a Trade Mark of Industrial Steps & Ladders Pty Ltd



*Member*