

The ADD-A-STEP™ Installation Process

The ADD-A-STEP™ Modular Ladder system has been designed in such a way that assembly and installation is a quick and very simple process.



The Modular components



Assembling stile and rung



Assembling ladder to required size



Placing in the retaining clips



Assembled ladder



Drilling in the wall brackets



Bolting on the wall brackets



Ready to install the ladder



Anchoring ladder in the access chamber



ADD-A-STEP™ Job done

ADD-A-STEP™ MODULAR LADDER

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, healthcare and information.

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 and this includes end of life. After serving a useful purpose, 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 CO2 emissions.

ADD-A-STEP™ Product Appraisal



WATER SERVICES ASSOCIATION
OF AUSTRALIA

Industrial Steps & Ladders
ADD-A-STEP
Modular Ladder System
Product Appraisal 05/11

ADD-A-STEP™ is a Trade Mark
of Industrial Steps & Ladders



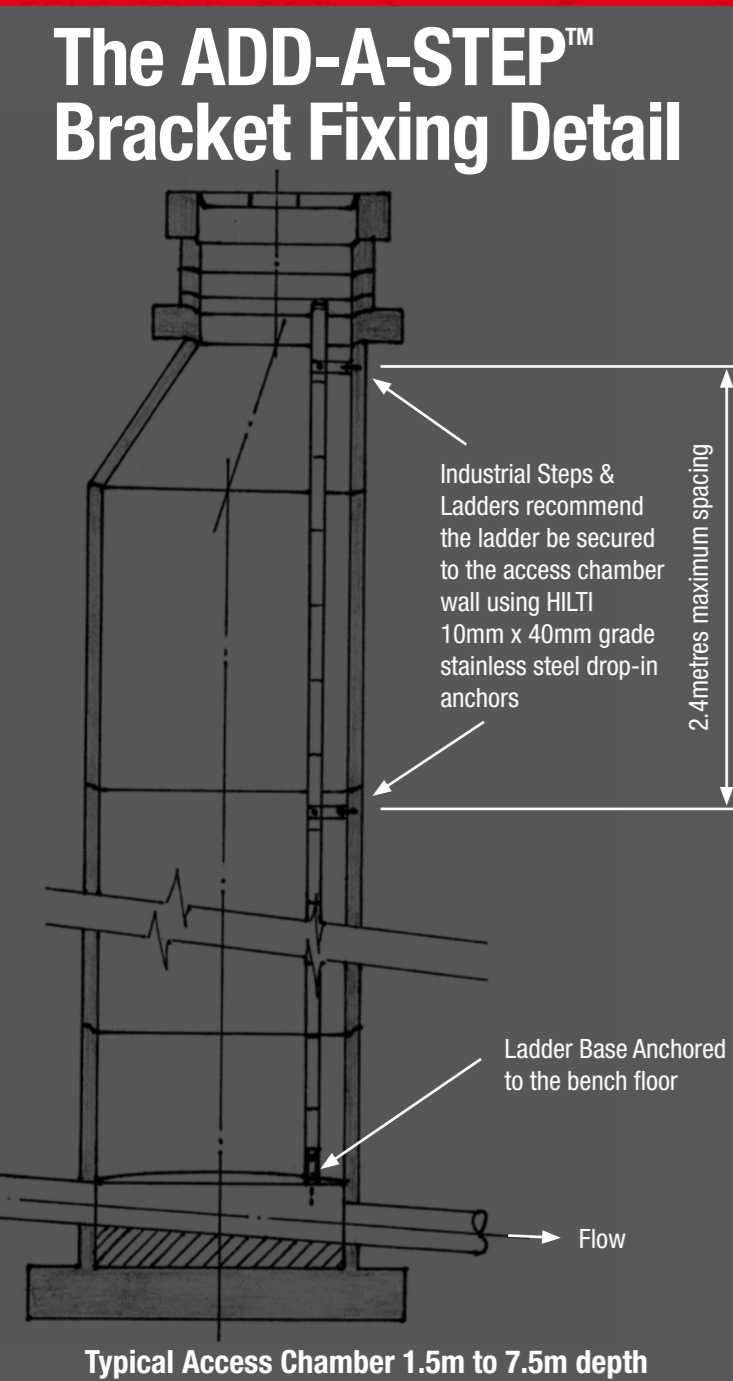
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ADD-A-STEP™ MODULAR LADDER

Modular Step
Engineering



ADD-A-STEP™ MODULAR LADDER

The History of Industrial Steps & Ladders



With the encouragement of the Water Corporation of Western Australia to address an urgent need in pit access, Industrial Steps & Ladders invented the **ADD-A-STEP™** ladder, the design of which has been patented. Sales of the **ADD-A-STEP™** commenced in 2003. Industrial Steps & Ladders is currently in the process of patenting further inventions in the modular step engineering field.

This brochure describes the range of **ADD-A-STEP™** ladders and their very practical benefits in potable water, waste water, corrosive and general industrial and construction applications.



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

First established in Perth in 2001, the company is moving to become a national and international participant in the field of modular step engineering.



1) Sewerage - Yellow

Fibre reinforced polybutelene terephthalate (PBT) coloured **YELLOW** and recommended for use in chemically aggressive locations such as sewer man holes.



3) Corrosive Environments - Orange

Semi-aromatic nylon coloured **ORANGE** which has excellent resistance to acid and alkali corrosion.



2) Drinking Water - Blue

Fibre reinforced nylon 66 coloured **BLUE** and recommended for use with potable water immersion situations such as water towers and tanks.



4) Building & Construction - Black

Fibre reinforced nylon 66 coloured **BLACK** is recommended for use in building and construction, particularly where the ladder is exposed to ultra-violet light. Large orders may be custom coloured.

All materials are injection moulded using a purpose made set of dies. The green coloured rung retaining clip is injection moulded from acetyl co-polymer.



A Fully Tested Alternative to Steel

Potential users need to know a), that the design of the **ADD-A-STEP™** ladder enables it to meet stringent performance criteria, and b), that production of the ladder modules is quality-controlled.

Before approving the **ADD-A-STEP™** ladder, Water Services Association of Australia (WSAA) set a number of special performance criteria which the novel plastic ladder would have to meet. (Note that steel ladders were in use long before any such testing criteria were established). The **ADD-A-STEP™** ladder passed all tests.

Raw materials used in the production of the ladder are sourced only from

suppliers who guarantee their compliance with tight standards, and the injection moulding process used to form the modules is computer-controlled to narrow tolerances.

A colour-coding convention is adopted to ensure the correct marriage of ladder-type to application.

Industrial Steps & Ladders is a Quality Assured Supplier. The quality manual and procedures are audited annually and certified by the Western Australian office of Bureau Veritas Quality International.

AS/NZS ISO 9001:2000
Quality management systems - Requirements



The ADD-A-STEP™ Package

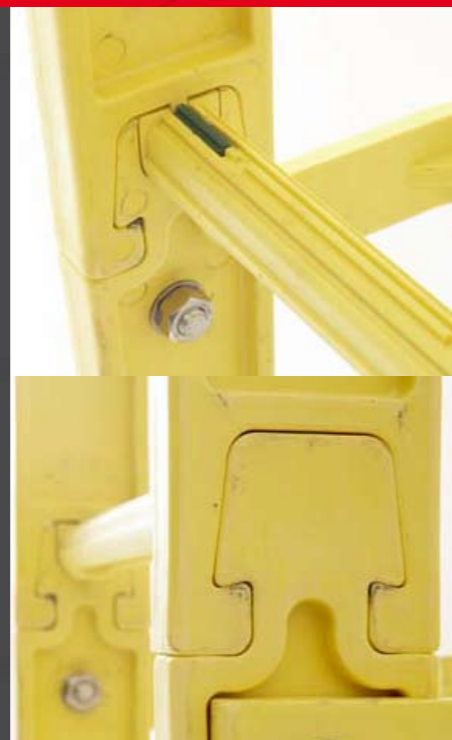
The **ADD-A-STEP™** modular ladder system was designed to provide a product that could be supplied off the shelf for next day delivery.

Each module of the **ADD-A-STEP™** ladder consists of two stiles, one rung and two retaining clips. Each stile measures 360mm long, 80mm wide and 32mm thick maximum dimension. The ladder width outside the stiles (uprights) is 435mm and it weighs approximately 5kg per lineal metre.

The **ADD-A-STEP™** ladder has 30mm diameter rungs at 300mm centre spacing and the width or foot space inside the stiles is 375mm. The ladder is assembled on site using the number of modules required to achieve any length requirement.

The product is packed into a purpose made box measuring 520mm long x 345mm wide x 515mm high. Each box contains 35 modules (10.5 metres) with 18 boxes on a pallet. Any number of modules can be purchased.

The **ADD-A-STEP™** modular ladder system offers supply off the shelf for a next day delivery.



The Benefits of ADD-A-STEP™

- It is modular and can be transported over long distances more economically than fully assembled ladders.
- It does not have to be measured prior to order and can be made up to any length on site as required.
- The **ADD-A-STEP™** ladder packs can be transported in a lift or by crane and assembled at the top or at the foot of a structure.
- There is no maintenance required other than occasional cleaning with a pressure hose if desired.
- The **ADD-A-STEP™** ladder has excellent insulation properties so it can be used in applications where electrical cables are present.
- The FRN product is suitable for contact with drinking water.
- The fibre reinforced plastic materials used are UV tolerant and non-corrosive.
- Contractors and Water Authorities will have major benefits regarding OH&S issues particularly weight. At approx. 5Kg per meter the ladder is significantly lighter than steel or stainless steel.

Further Advantages of ADD-A-STEP™

- Long life in extreme conditions. We are carrying out tests to confirm our own estimate of at least 30 years life.
- Numerous international sources of raw materials.
- Easy to manufacture in small quantities – **Industrial Steps & Ladders** are prepared to manufacture any quantity any time.
- Ladders can be removed from one site and re-installed at another
- No painting or other protective coating required.
- Products can ultimately be fully recycled