

AUSTRALIAN STAINLESS

SPECIALISING IN STAINLESS STEEL AND ITS APPLICATIONS

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ASSDA

PRYDE FABRICATION CELEBRATES 10 YEARS IN STAINLESS STEEL



Warren Pryde has good reason to be proud. His company, Pryde Fabrication, is celebrating a ten year anniversary as a fabricator in the stainless steel industry.

Pryde Fabrication began in 1995 in Capalaba, Queensland, when Warren saw an opportunity to install stainless steel commercial kitchens for fabricators followed by a venture into architectural balustrading installation.

"I started with just myself, a ute and a toolbox. There was just one offsider which was my father-in-law.

"Six to eight weeks into it, there wasn't enough hours in the day. I think I was working probably eighteen hours out of twenty four. Within six months I had five people working for me."

As the company expanded, other metals were introduced, but predominantly the focus was always stainless steel.

After 20 months, it was clear that a factory of his own was needed to support the slowdown that Warren says is probably still coming.

Fast forward to 2005, and Warren has established factories in both Queensland and New South Wales. Warren reflects on what would be the company's most significant



stainless steel project achievements to date.

"Definitely the RiverWalk project balustrading ... it's a job that we're certainly proud of internally. That's up there as 'challenging' and the finish we ended up supplying out there we were more than happy with."

The company's sustained focus on quality has seen Pryde Fabrication develop a strong leadership role in the stainless steel industry.

When the Australian Stainless Steel Development Association launched the ASSDA Accreditation Scheme in early 2004, Pryde Fabrication was one of Australia's first companies to be industry-recognised as an ASSDA Accredited Fabricator.

"Unfortunately there are some people playing around on the stainless side that shouldn't be there. The market is so price driven these days, the margins are tight.

"I thought [the Scheme] was good mainly from the point of view that there was an assurance there that the client was going to get what they actually expect from the stainless steel.

"When you come up against another Accredited Fabricator you don't mind because they are pricing the right material, the right structure. We saw this [Scheme] as a way to market ourselves as a top quality fabricator in the stainless steel industry.

Warren says that he still hasn't got a sales representative on the road, instead attributing the company's success to return business and offers his plans for the next ten years.

"A realistic figure is trying to double our turnover ... we're ready for another expansion right across our market, whether it be the street furniture, commercial kitchens or the architectural side.

"We're looking at increasing that [marketshare] without needing too many sales reps on the ground. So we're still looking at that return business basis".

The gains from having an ASSDA Accredited Fabricator status has resulted in benefits for his clients, his company and the whole industry.



Warren describes how the Scheme has assisted his company in marketing his business to the specifying community.

"With a lot of the government departments getting our name put in front of the right people with the order books ... they know what can happen to stainless if it's not done the right way".

Finally, Warren has this advice for fabricators starting out in the stainless steel industry.

"Companies who haven't got the experience, if they get in touch with ASSDA they have the opportunity to do it the right way.

"At the end of the day, it doesn't matter who does the stainless work out there, if it's done properly, it's only going to be better for the industry and better for our company - because the majority of our work is stainless."

CONTACT:

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- > Australian Stainless Steel Development Assoc.
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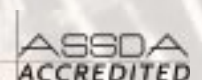
ASSDA Accredited Fabricators are listed only on the ASSDA website www.assda.asn.au



ASSDA Accredited Fabricators

An ASSDA Accredited Fabricator gives asset owners and specifiers greater certainty of high quality service in stainless steel fabrication

Find an ASSDA Accredited Fabricator quickly by searching the *Stainless Steel Specialists Register* online at www.assda.asn.au



SPECIFYING STAINLESS STEEL FOR LUXURY BEACHSIDE HOMES



Stainless steel enjoys a strong and enduring reputation for visual appeal and structural integrity in a wide range of applications.

This broad appeal has made stainless steel an ideal choice for value-adding luxury homes on Sydney's northshore.

SPIRAL STAIRCASE - COLLAROY

One particular luxury home overlooking the beach at Collaroy is owned by former rugby league test captain Brad Fittler.

The home featured an external steel spiral staircase (pictured below right). However, its close proximity to the surf had caused the painted staircase to corrode in less than 12 months of installation.

Salt deposits had accumulated on the structure, causing the staircase to rapidly corrode in the harsh coastal environment.

Builder, Binet Homes commissioned ASSDA member, DJQ Industries to fabricate and install a stainless steel spiral staircase that could cope with the sustained salt exposure inherent with coastal applications.

DJQ Industries fabricated the new staircase out of grade 316 stainless steel supplied by ASSDA Major Sponsor, Fagersta Steels.

The staircase was welded into sub-assemblies and electropolished by Regents Park Electroplating on completion of fabrication prior to installation on site.

The corrosion resistance of stainless steel in this environment and exposure to natural rain washing will mean this installation will have a long service life with minimal maintenance.

POOL WITH A VIEW - PALM BEACH

Substitute your morning coffee for a dip in this luxury home pool (pictured below) with a spectacular eye-opening view of northern Sydney's beautiful Palm Beach.

ASSDA member DJQ Industries was contracted by Bellevarde Constructions to supply and install stainless steel balustrades, pool edging, fence and other household fittings.

ASSDA Major Sponsor Fagersta Steels supplied grade 316 stainless to DJQ Industries for the \$200,000 project. The project was fabricated to meet all building and structural codes with finishes suitable for a marine environment.

The unique pool edge detail provides a less obtrusive mounting for the glass and stainless steel was used extensively in the construction of framework for the pool platform steps.

Stainless steel items for the house included a chimney cowl, chimney cap, downpipes, trench type floor drains to bathrooms and sliding door tracks to all north facing walls on two levels.

The extensive use of stainless steel in this luxury home highlights the importance of specifying stainless steel for maximum corrosion resistance and enduring visual appeal.

CONTACT:

- > DJQ Industries Pty Ltd
19 Walker Place, Wetherill Park NSW 2164
Phone (02) 9756 3111 Fax (02) 9756 1641
www.djq.com.au
- > Fagersta Steels Pty Ltd
137 Long Street, Smithfield NSW 2164
Phone (02) 9604 0000 Fax (02) 9604 9026
- > Regents Park Electroplating Pty Ltd
Phone (02) 9645 1025



Clockwise from top:

A shimmering spiral staircase fabricated from grade 316 at a luxury beachside home in Collaroy.

The painted carbon steel stairs that were replaced due to corrosion after 12 months in service.

A luxury home in Palm Beach with a spectacular pool with a view featuring a unique edge detail fabricated from grade 316 stainless steel.



TECHNICAL ARTICLE: RECYCLING OF STAINLESS STEEL SCRAP



TODAY, ENVIRONMENTAL FACTORS ARE AT THE FOREFRONT OF MATERIAL SELECTION FOR SPECIFIERS. STAINLESS STEEL'S LONG SERVICE LIFE, 100 PERCENT RECYCLABILITY AND ITS VALUABLE RAW MATERIALS MAKE IT AN EXCELLENT ENVIRONMENTAL PERFORMER.

Stainless steel objects rarely become waste at the end of their useful life. Recycled stainless steel objects are systematically separated and recovered to go back into the production process through recycling.

As well as iron, stainless steel contains valuable raw materials like chromium and nickel which makes recycling stainless steel economically viable.

Stainless steel is actively recycled on a large scale around the world by recyclers who collect and process scrap (recycled stainless steel) for re-melting all around the world.

SCRAP COLLECTION

The use of stainless steel scrap is fundamental to the steelmaking process. There are two types of scrap - reclaimed scrap (old scrap) and industrial scrap (new scrap).

Reclaimed scrap includes industrial equipment, tanks, washing machines and refrigerators that have reached the end of their service life.

Industrial scrap includes industrial returns or production offcuts from manufacturing by industrial engineering and fabrication sources.

Today, stainless steel is made up of approximately 60% recycled content including:

- 25% reclaimed scrap
- 35% industrial scrap
- 40% new raw materials

The useful service life of stainless steel products is long so the availability of scrap is dependent on levels of production from decades ago.

With an average content of 25% of old scrap, stainless steel is close to the theoretical maximum content of material from end-of-life products.

RECYCLING THE SCRAP

Specialised expertise and sophisticated technology is needed in recycling to separate and prepare each type of alloy for remelting.

A recycling processor feeds the scrap into a large shredder to break it into smaller pieces. It is then chemically analysed and stored by type.

This process may include 'blending' the scrap into chrome steels, nickel alloys and other types of stainless steels.

After blending into piles for specific customer requirements the scrap is then loaded into containers for export to overseas mills.

THE GLOBAL MARKET FOR SCRAP

Virtually, all Australian stainless steel scrap goes overseas. There's a small market for stainless steel scrap in Australia for use in the foundries business. Foundries often use profile offcut or plate material scrap products.

At least 30,000 tonnes of stainless steel scrap in Australia will be exported a year to stainless steel mills in countries including China, South Korea, Taiwan, India and Japan.

China, for example, is using approximately 800,000 tonnes of industrial scrap. Reclaimed scrap is also on the increase in China and is expected to reach 2.5 million tonnes in 2005.

For mills, scrap is important because recycled stainless steel contains valuable raw elements including chromium, nickel and molybdenum that are gathered, processed and reused in the production process.

The more scrap used in furnaces by mills, the less raw materials are required in the production process.

STAINLESS STEEL MILLS

Scrap along with other raw materials, ferrochromium (chrome/iron), ferro moly

continued next page



Specialised expertise and sophisticated technology is needed in recycling to separate and prepare each type of alloy for remelting by stainless steel mills.



Recyclers of Stainless Steel and other Associated Alloys

ELG > Largest processor of stainless steel scrap in both Australia and the World.
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(molybdenum/iron) and nickel are blended into an electric furnace.

After melting, impurities are removed, the molten metal is refined and the chemistry analysed to determine what final adjustments are necessary for the specific type of stainless steel being produced.

The molten stainless steel is then cast into slabs or billets before production of plate, sheet, coil, wire and other forms in preparation for use by industrial manufacturers.

THE STAINLESS RETURNS TO YOU

Industrial manufacturers produce stainless steel items that you use everyday including cutlery, pots and pans, kitchen sinks and many architectural, industrial and other components.

At each stage of the production and use process, stainless steel retains its basic properties and utility value.

Unlike many industrial and engineering materials, stainless steel may be returned to its original quality in the supply chain without any degradation.

You can be assured that even after its long service life, your environmentally-efficient stainless steel will always return to you bright, shining and new!

ASSDA acknowledges the assistance and contribution of Ignatius Brun of ELG Recycling Processors, the International Stainless Steel Forum (ISSF), the Nickel Institute and Peter Moore of Atlas Specialty Metals in the production of this article.

CONSUMPTION OF STAINLESS STEEL SCRAP - 2004

China — 2.8 million tonnes of production using 900,000 tonnes of scrap.

Japan — 2.4 million tonnes of production capacity using 900,000 tonnes of scrap.

South Korea — 2.3 million tonnes of production using 800,000 tonnes of scrap. Product mix 80% austenitic, 20% ferritic.

Taiwan — 2.6 million tonnes of production using 600,000 tonnes of scrap.

India — 1.4 million tonnes of production using 300,000 tonnes of scrap.

Note: Australia sends a proportion of stainless steel scrap to all of the above countries.

STAINLESS FRAMELESS TANKERS MAKE BIG AUSTRALIAN DEBUT



There's a new breed of tanker being put through its paces along Australia's east coast carrying aggressive chemicals and class three petroleum products for McColl's Transport.

Dandenong based tanker manufacturer, Marshall Lethlean, has constructed FACT, a Frameless Aggressive Chemical Tanker with some unique operating attributes.

Marshall Lethlean constructed the 25,800 litre, 11.5m long stainless steel tanker with a chassis that's up to 300 kilos lighter than conventional full frame designs.

Carting a variety of chemicals for McColl's, such as caustic soda, formaldehyde and methanol, the barrel has been wrapped and not rolled, using full length stainless sheets to eliminate circumferential welds, a feature unique to Marshall Lethlean stainless steel tankers.

ASSDA Major Sponsor, Atlas Specialty Metals, supplied grade 316 stainless steel sheet to Marshall Lethlean for the fabrication of what is believed to be the industry's first frameless chemical tanker.

Finally, to give the tanker a bright, durable corrosion resistant finish, the coaming, chassis rails and tank rings were all electropolished by ASSDA member, MME Surface Finishing.

Orlando Iluffi, Marshall Lethlean's Business Development Manager, says the FACT product was one of many new developments which will be released onto the market to better improve running costs and operating safety.

"We have worked on this new tanker in

partnership with McColl's for nearly two years just to get it right.

"Along the way, we have been able to improve our engineering skills to the point that it has led us toward other new concepts which we are all equally excited about."

In June 2005, the Frameless Aggressive Chemical Tanker prototype began a six month trial period to test for 'accelerated durability'.

After three and half months of the trial, McColl's Workshop Manager, Rob Harrison said the company intends to "buy the tanker after the period" has completed in late December.

CONTACT:

- > Atlas Specialty Metals
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www.atlasmetals.com.au
- > MME Surface Finishing (VIC) Pty Ltd
4-8 Curie Court, Seaford Vic 3198
Phone (03) 9775 1620 Fax (03) 9775 0034
www.mme.com.au
- > Marshall Lethlean Industries Pty Ltd
www.ml-i.com.au
- > McColl's Transport
www.mccolls.com.au



McColl's Transport carts a variety of chemicals such as caustic soda and formaldehyde. The tanker barrel has been wrapped and not rolled, with full length stainless sheets used to eliminate circumferential welds.

PACRIM STAINLESS 2005 CONFERENCE — 19-21 OCTOBER



PacRim Stainless 2005 - the second international stainless steel forum focussing on the Asia-Pacific Region promises to command a strong voice in this part of the world to shape the future of the stainless steel industry.

Following on last year's success of PacRim Stainless 2004, the inaugural event attracted 144 delegates and generated interest from around the world.

This year's conference theme, "Stainless at Home and Abroad" will be held at the historic Hyatt Hotel in the magnificent springtime setting of our nation's capital - Canberra.

Confirmed international speakers include:

- Professor Xu Aidong - Chief Analyst, Chinese National Non-Ferrous Metals Industry Information Centre (China)
- Mr Bruce McKean - Director - Stewardship and Sustainable Development, Nickel Institute (Canada)
- Mr Jan Olsson - Senior Technology Advisor, Outokumpu Stainless - Avesta Research and Development (Sweden)

As always, quality social events will be featured including five star catering and special entertainment for delegates at the National Museum and the Australian War Memorial.

Delegates can expect to hear engaging discussions from expert issues covering topics affecting our industry including:

- Regulatory matters worldwide.
- Commercial expectations for stainless steel and raw materials.
- Technical papers and building education and fabrication capability.
- National experiences from participants around the Pacific Rim.

For information on sponsorship, exhibition and registration details for PacRim Stainless 2005 contact the ASSDA office on 07 3220 0722.

CONTACT:

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Phone (07) 3220 0722 Fax (07) 3220 0733
www.assda.asn.au



COOKING WITH GAS NEW 9KG STAINLESS STEEL GAS BOTTLES



Strong demand from prestige boating and yachting manufacturers has prompted the production and release of new stainless steel nine kilogram LPG gas bottles.

Melbourne-based fabricator and ASSDA member, Stainless Tanks and Pressure Vessels (STPV) produce grade 316L stainless steel gas bottles that offer significant resistance to corrosion, making the product ideal for cooking in marine and boating applications.

The new gas bottles will also complement the increased production of barbecues now manufactured in stainless steel and are supplied with standard gas fittings.

The refillable gas bottles have a ten year inspection life in line with industry codes and comply with gas liquids code under AS 2470.

STPV principal Chris Miller said he commenced

manufacturing the gas bottles after enquiries from a number of prestige boating and yachting manufacturers in search of a superior, corrosion resistant supply tank, which can readily be refilled.

"We have since commenced supplying several barbecue manufacturers who produce a range of superior products in stainless."

The stainless steel bottles are available from Southern Stainless, Gold Coast and Marine Barbecues, Newcastle. Alternatively, contact Stainless Tanks and Pressure Vessels for outlets.

Stainless Tanks and Pressure Vessels manufactures a wide range of standard and to order stainless steel tankage equipment for the fire protection, process industries and numerous industrial applications.

CONTACT:

> Stainless Tanks and Pressure Vessels
3/23 Kevin Avenue, Ferntree Gully Vic 3156
Phone (03) 9752 2400 Fax (03) 9758 0719
www.stainlesstanks.com.au





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STAINLESS STEEL BULK SOLVENT STORAGE FACILITY COMPLETED



When coatings manufacturer, PPG Industries' original bulk solvent storage facility had come to the end of its economic life, the company elected to install a new \$8m facility that is both efficient and fully compliant with numerous safety, environmental and good design principles on its Clayton, Victoria site.

Established in the 1950s, the bulk solvent storage facility receives a diverse range of bulk solvents and monomers, sourced from petrochemical producers in particular and delivered to the site by bulk road tanker.

PPG Industries Project Manager, Tom Van Loon, said he went in search of a stainless steel fabrication contractor with both the experience and capacity to undertake the major components on a qualitative and timely basis.

"Projects of this nature are normally awarded to a contractor on a turn key basis, but we elected to engage a competent team of designers and supervisors, outsource most services and work in close cooperation with our appointed fabricator Furphy Engineering and the suppliers of the process equipment" Mr Van Loon said.

On site at Clayton, the tanks are fully enclosed within a three-compartment concrete 'vault'. The 400mm thick vault has dimensions of about 28 metres by 22 metres with a depth of 5.5 metres.

The tanks have been backfilled with washed silica sand to maintain low ambient product



The Bulk Solvent Storage (UST) project at PPG Industries Australia, Clayton site includes multiple stainless steel bulk storage tanks contained within a concrete vault. Below: Furphy Engineering at Shepparton undertook the construction together with a substantial volume of stainless pipe spool work.

temperature and provide additional fire protection. As an additional safety protection each solvent tank is nitrogen blanketed.

Furphy Engineering purchased the majority of the stainless steel for the project from ASSDA member, Midway Metals.

"The tanks for the UST project required a total of 70 tonnes of 6mm thick, grade 304 stainless steel which were fabricated at the Furphy Engineering workshops in Shepparton, Victoria.

"The welding of each tank was subject to non-destructive testing by radiography during fabrication, followed by hydrostatic testing of each tank prior to delivery" said Darren Leeder, Furphy Engineering's Sales and Marketing Manager.

Located above the underground storage is the process control system, extensive delivery pumping and pipework and three tanker unloading bays.

Furphy's also fabricated all the stainless steel pipe spool work, comprising over 1,500 individual spool pieces amounting to more than 4,500 metres of stainless steel pipe work

to deliver the solvent raw materials to the manufacturing centres on the site.

All fabrication was undertaken to various standards including AS 1692-1989: Tanks for flammable and combustible liquids and other best practice standards for the environment, plant safety and related quality aspects.

As Project Manager for PPG Industries, Tom Van Loon says that the project was completed on time and to budget.

"The project outcome has been particularly pleasing as the storage facility has scope to handle PPG's anticipated growth in the future."

CONTACT:

- > Furphy Engineering
New Dookie Road, Shepparton Vic 3632
Phone (03) 5832 1400 Fax (03) 5832 1410
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- > Midway Metals
33 Tatterson Road, Dandenong Vic 3175
Phone (03) 9791 5111 Fax (03) 9791 5333
www.midwaymetals.com.au
- > PPG Industries Australia Pty Limited
McNaughton Road, Clayton Vic 3168
Phone (03) 9263 6037 Fax 03 9263 6988



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BRIAN ANDERSON VALE

01.07.1959 — 05.07.2005



Sadly we announce that Brian Anderson passed away unexpectedly on Tuesday evening, 5 July this year.

Brian worked in the steel industry all his life. He served his time as a boilermaker in the ship building industry in England then to Australia with Johnson Engineering in a supervisory role, manufacturing cryogenic vessels using stainless steel.

Union Steels were the first to recognise his sales management skills where he spent time in their NSW, SA and finally their Victorian companies managing various parts of their businesses.

In 1995, Brian joined Sandvik Australia in the capacity of NSW Steel Manager within the Sandvik Materials Technology Division, a post he held until the end.

He enjoyed all aspects of his work at Sandvik and particularly his interaction with a wide

variety of people. Brian enjoyed sailing and, on occasion, entertained select customers on board in Sydney Harbour.

Last year he convinced two of his colleagues to join him in the 2004 Variety Club Bash, Barramatta to Bathers Beach (Parramatta – Perth) via Broken Hill, Kalgoorlie and many other remote locations.

The stainless steel industry got behind the entry and major sponsorships to charity were received from many ASSDA members and sponsors.

Brian touched many people during his life and above all will be remembered as a fun loving individual who enjoyed and entertained those of us who were privileged to call him a friend.

*Gary Drummond
General Manager - SMT Division
Sandvik Australia*



STAINLESS STEEL THE FIRST STEP - FREE DOWNLOAD

Finally, there is a presentation that explains stainless steel in simple terms that anybody can understand!

'Stainless Steel - The First Step' is an interactive course with photos, graphics and audio that is available delivered over the web.

The presentation is the first stage in a full Stainless Steel Specialist Course series of 16 e-learning modules (electronic multimedia format) to be developed by ASSDA for the International Stainless Steel Forum (ISSF)

Pass it onto your colleagues, clients and friends or anyone who wants a quick introduction to stainless steel.

Download Stainless Steel - The First Step free from the following website address:

www.worldstainless.org/training.php



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CONTACT — Max Russell, email max_r@assda.asn.au

MORE INFORMATION

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