

Capability Statement

13 Nov 2017

KINGFIELD GALVANIZING PTY LTD



INDUSTRIES SERVED

MANUFACTURING

CONSTRUCTION &
ENGINEERING

LAND &
AGRICULTURE

RAIL

STEEL

MINING

OIL, GAS & ENERGY

WATER

Company Details

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Local Manufacturer: Yes

Works in Remote Locations: No

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For over 30 years Kingfield Galvanizing has hot dip galvanized steel components for engineering, construction and infrastructure projects throughout Australia. Based in Melbourne's northern suburbs, we recently invested \$20 million in developing a state-of-the-art hot dip galvanizing (HDG) facility. Kingfield now operates the largest sustainable and most highly automated galvanizing plant with the lowest emissions of any HDG plant in the southern hemisphere.

Summary

The new plant was designed to deliver a commercially viable Australian benchmark for the future of galvanizing. To achieve this, we developed initiatives under three key sustainability criteria; Recycling, Reducing Environmental Impacts and Improved Workplace Safety.

Kingfield's plant transformation includes staff free zones and automated materials handling systems, which reduce

the risk of injury from moving steel objects. The enclosed pre-treatment room & fume extraction systems further reduce the potential for injury or exposure to hazardous chemicals. Collectively the plant's sustainability initiatives also deliver commercial benefits as they minimise downtime, maintain a high quality, consistent galvanizing finish and increase throughput of galvanized steel components.

Description

For over 30 years Kingfield Galvanizing has hot dip galvanized steel components for engineering, construction and infrastructure projects throughout Australia. Based in Melbourne's northern suburbs, we recently invested \$20 million in developing a state-of-the-art hot dip galvanizing (HDG) facility. Kingfield now operates the largest sustainable and most highly automated galvanizing plant with the lowest emissions of any HDG plant in the southern hemisphere.

Our state-of-the-art equipment is capable of galvanizing large scale components for major construction projects and infrastructure works.

Automated materials handling and processing equipment prepares steel substrates to the highest level. Our remote controlled dipping system delivers a consistent galvanized coating to provide long-life protection against rust or create

a uniform surface for paint over galvanizing projects.

With a plant capacity of over 30,000 tonnes per annum and 30 jigs operating on our line, we offer the flexibility to schedule urgent or impromptu jobs without compromising quality.

Our experienced team of galvanizing professionals provide complementary advice to engineers and fabricators regarding design and preparation of steel components to achieve the desired galvanizing thickness and finish for each installation.

Sustainable operating practices significantly reduce environmental impacts in the following ways. Automated materials handling equipment delivers more consistency in the pre-treatment process, resulting in uniform steel preparation and reduced consumption of chemicals. Fully

enclosed pre-treatment, drying & hot dip galvanizing facilities prevent emissions from entering the atmosphere. Waste created from the galvanizing process is recycled and re-used, heat from the furnace is reclaimed, water is recycled within our plant and energy consumption per tonne is reduced.

Improved manufacturing processes and greater workplace safety have been integrated into our hot dip galvanizing plant to create a controlled, measured and reliable galvanizing environment. Automation replaces manual galvanizing processes to deliver greater consistency. This benefits both preparation of the steel surface & uniformity of the final, protective zinc coating.

Kingfields plant transformation includes staff free zones, automated materials handling systems, adjustable jig stands, extra jig stations and a transfer section that holds 24 jigs. Each of these upgrades reduces the risk of injury, from moving steel objects.

Our enclosed pre-treatment room & fume extraction systems further reduce the potential for injury or exposure to hazardous chemicals.

Collectively these features minimise downtime, maintain a high quality, consistent galvanizing finish, increase throughput and enable Kingfield to reliably deliver on client deadlines.

Associations

- > Galvanizing Association of Australia
- > The Steel Institute
- > Australasian Corrosion Association INC
- > The Australian Industry Group
- > Green Building Council of Australia
- > Infrastructure Sustainability Council
- > Australian Environment Business Network

Major Clients

- > Lend Lease
- > Bluescope Steel
- > TransUrban Group
- > Downer Group
- > OneSteel Limited
- > Vicpole
- > NuFarm
- > John Holland

Industries Served

- > Manufacturing
- > Construction & Engineering
- > Land & Agriculture
- > Rail
- > Steel
- > Mining
- > Oil, Gas & Energy
- > Water

Facilities

- > Hot Dip Galvanizing Production Line
- > 400 TONNES MOLTEN ZINC
- > DEGREASING TANKS 20 X 3.2 X 1.5M
- > Centrifuge tank 3.0 x 1.2 x 1.5m

Products & Services

- > Hot Dip Galvanizing
- > Steel Fabrication
- > Lintels
- > Steel Columns
- > Shelf Lintels
- > Window Framing
- > Fencing
- > Steel Checkerplate
- > Cleats
- > Brackets
- > Steel Grating
- > Steel Walkways
- > Steel Framework
- > Steel Wine Racks
- > Reo
- > Steel Mesh
- > Trailers
- > Chassis
- > Portable Buildings

Previous Significant Projects

2017

Eureka Stadium
\$40,000,000

Client: Ballarat City Council

In June 2015 the Victorian government announced a \$38.5 million upgrade to the stadium and the wider Ballarat Major Events Precinct (with approximately half of the funding to be directed to the first stage of redevelopment of the Eureka Stadium).[3]

The Ballarat Major Events Precinct Master Plan (Released in June 2015), provided a strategic overview for the long-term three-stage development of the stadium as a boutique general purpose stadium; other neighboring sports fields and pavilions; and

2014

MFB Vic Emergency Management Training Centre
\$100,000,000

Client: Major Projects Victoria

Modern Training Facility for firefighters and other emergency services personnel to train together in realistic emergency situations. The centre simulates the situations emergency services personnel typically face. Scenarios include fire in a shop or at a petrochemical facility, through to searching collapsed buildings, road rescues and an emergency in a railway tunnel. Kingfield supplied the galvanized steel structures, with 88% of all buildings having an HDG component to minimise maintenance.

2016

Power Street Loop Regeneration Project
\$2,500,000

Client: Transurban

As part of Transurban's commitment to sustainability and contributing to the community, creative design ideas are under construction to transform the vacant Power Street Loop site. Key features of the design include:
Iconic artwork - that showcases sustainability in an urban environment
Regeneration - re-introducing indigenous species
Sustainability - using recycled recycled materials, reducing energy demand and greenhouse gases.

2015

St Kilda Adventure Playground
\$3,500,000

Client: City of Salisbury

Refurbishment of Community Adventure Playground offering range of unusual, specially designed play equipment. A 3-level structural steel castle was hot dip galvanized for long-life corrosion protection in a coastal environment.



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