

# CARING FOR GROWING HOSPITAL CAR PARK

Recent improvements of the car park of Austin Hospital in Melbourne showed that hot dip galvanizing (HDG) with steel frame construction can speed construction time, ease trades and congestion onsite, increase safety and ensure the asset will be protected against corrosion for decades to come.

The car park has been extensively expanded over the past decade at what is the largest hospital redevelopment ever undertaken in Victoria, and one of the largest in Australia.

Structural beams, cable trays, handrails and lighting towers were all galvanized in this 1800-tonne project.

Lay down area was extremely limited in the existing operating car park so each load of steel had to be tightly sequenced. Daily meetings between the steel fabricator and galvanizer ensured the delivery schedule was met minimising storage of galvanized items onsite.

They also held venting and draining education sessions ensuring steel sections were correctly prepared for galvanizing. This reduced rework, improved turnaround times as well as quality and ensured that all the steel was available for delivery in its scheduled load lot.

Galvanized steel arriving onsite could be immediately craned into position.

The steel fabricator adopted bolted angle connections to improve fabrication efficiency whilst making structural members an ideal size for galvanizing.

**This project was the International Award winner in the 2015 American Galvanizers Association – Excellence in Hot-Dip Galvanizing Awards and was a GAA 2014 Sorel Award finalist.**

The need for off-site preparation and the lack of onsite storage meant any protective coating on the steel needed to be tough and resistant to handling damage as it would be craned directly into position from the back of the transport.

To enable shear studs to be welded to the hot dip galvanized beams, stop-off or masking paint in different widths was applied to specified beams to prevent the zinc coating bonding to the steel during galvanizing. The galvanizer treated over 2000 individual pieces this way.

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## PROJECT TEAM

**Asset Owner:** Austin Health

**Architects:** Clarke Hopkins Clarke

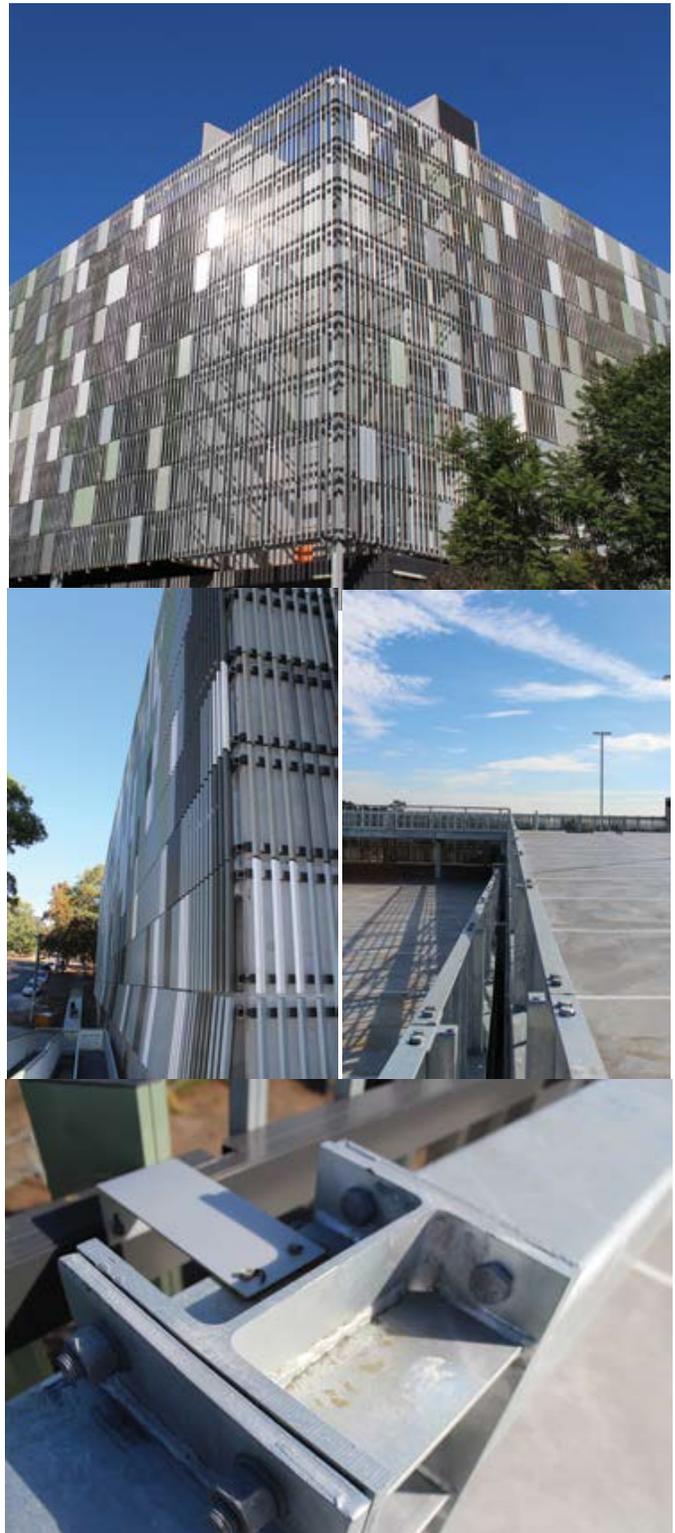
**Principal Builder:** Walton Constructions/Built

**Steel Specifier:** Robert Bird Group

**Steel Fabricator:** Page Steel

**Hot Dip Galvanizer:** Industrial Galvanizers

**Photographer:** Industrial Galvanizers





## NEW DIGITAL APP GALVANIZE

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- 1- extensive use of a galvanized structural steel frame and reinforced concrete, combined to produce a stunning and tractive addition.
- 2- The installation of angled louvers to the galvanized framework produce a colorful, patterned exterior that creates delightful reflections from the sunlight. It also provides significant ventilation and breaks up the angular lines of the car park structure.
- 3-6 Extensive use of HDG fasteners complement the overall design and allow for significantly reduced assembly time and costs.
- 7- Fully exposed galvanized steel beams support Bondek which has been used to form