UNITED CAR PARK
Hot – Dip Galvanized steel in use

Environment:	**Industrial**
Project:	**Car Park**
Tonnes:	**700**
City:	**Melbourne (Tullamarine)**
State/Country:	**Victoria, Australia**
Date Galvanized:	**2002**

United car park is a 4 level car park located 3km from the major departure terminal of the Tullamarine Airport.
Pritchard (Builders) and Trojan Structures were selected to design and construct the 1000 tonne car park .The decision to adopt a composite steel construction was supported by several key issues time and cost benefits including all design, permits and construction for less than the 10 million dollar overall projected cost.
The project comprised of 700 tonne of 300 plus grade steel which was predrilled, cut to length, precambered and galvanized within the completion date of 34 weeks.

The pre-galvanized sheets pictured were not Hot Dipped Galvanized. It has caused the sheet to severely corrode with its exposure to the weather. It is currently under investigation whether they are going to be replaced or removed.

This corner column is located NW on the bottom ground level.
The readings were.

North: 198–185–190.

South: 183–193–182.

East: 171–179–174.

West: 214–278–247.

The disabled area east entrance column is similar to the corner column above, both are sheltered with no exposure to weather conditions, which make them liable to moisture and oxidization.

The readings were.

North: 165 – 127 – 139.

South: 162 – 138 – 133.

East: 172 – 167 – 178.

West: 225–198– 212.

The staircase and railing is on the 4th floor, which is exposed to all types of weather.
The readings for the staircase at different levels where: 165 – 113 – 132 – 117.

The micrometer readings for the railing where: 128 – 179 – 177 – 15

The analysis on this project was done in September 2005.
The project has been covered with a 25-year guarantee and the expected maintenance free life should exceed over 50 years.
Conducted by **Marco Bazzano I G Melbourne**.