

Various buildings in Australia



Galvanized rebar for world's largest sundial - constructed in Singleton in country NSW as a gift to celebrate Australia's bicentenary (1988). The sundial measures 14.6m long and 7.92m high. Built of 30 cubic metres of concrete reinforced with 2.5km of steel galvanized for corrosion protection.

Galvanizing in Critical Areas: Galvanized steel reinforcement used extensively in the construction of a railway tunnel for the Glen Waverley railway line under the South Eastern-Mulgrave arterial link in Melbourne

(1985). Galvanizing reinforcement used mainly for corrosion protection in the base hinges where moisture is most likely to penetrate the concrete. Two rows of reinforcement or cross bars used on one side of the tunnel and a single row on the other, to allow for differential loadings. Here the use of galvanizing as an "insurance policy" against corrosion is particularly important as maintenance access to the hinge area will be impossible once the tunnel is completed.



Australia's Parliament House on Capitol Hill Canberra - used galvanized reinforcement to ensure a life of centuries for the vast building. (1983)

Galvanized reinforcement for the Sydney's Intercontinental Hotel used as a safeguard against cracking and spalling of concrete (1985) and Hyatt Regency Adelaide (500 tonnes of galvanized reinforcement used). Brisbane's Commonwealth Bank - 32 storey building. The facade of the building is composed of over 1700 precast concrete panels each weighing between two and five tonnes - a white granite aggregate in a white cement matrix, polished to give the appearance of very pale grey natural granite. 350 tonnes of galvanized reinforcement, in the form of rod, mesh and fabricated cages, were used in the manufacture of cladding panels. Situated less than 9 kilometres from Moreton Bay as the crow flies, central Brisbane's tall buildings are subject to salt-bearing coastal winds in addition to an urban environment. It was important here that no unsightly rust stains on the gleaming facade occurred.