



TEDDS Calculation Pad benefits D J Dineen Pty Ltd - Australia



- ACSE Steel Design Award Winner – "Bolted Steel Water Storage Tanks" entered by D J Dineen Consulting Engineers, Victoria, Australia

The design of fully bolted cylindrical steel water storage tanks provides a challenge for the structural design engineer. As there is currently no relevant Australian Code of Practice, it is necessary to use overseas codes; usually a long established American one and a new Eurocode.

Dineen Consulting Structural Engineers in Victoria, Australia, have used CSC's TEDDS® software to develop a full set of computations and certification for a large range of tanks, manufactured by Queensland-based Australian Panel Tanks. The Company's efforts have been rewarded with the presentation of an Engineering Excellence Award from the Association of Consulting Structural Engineers of Victoria. The tanks designed to date have varied widely in size from large diameter [up to 27 metres wide] to high slender [up to 23 metres high] and have been built in severe wind regions of Western Australia and high seismic areas in New Zealand. The calculations have been generated in TEDDS® software, which engineers worldwide use to tackle problems which cannot easily be carried out by "hand methods".

"Apart from tank design, the Company has expertise in silo design and has used TEDDS® to produce computations for silo load analysis and structural design of the silo. Recently the Company has upgraded its TEDDS® capacity, purchasing the UK Version as well. This has enabled us to produce calculations to British and Eurocodes for an aluminium smelter project in Qatar, on which we have been retained to provide specialist design of silos and associated structural steel."

- Des Dineen – D J Dineen Pty Ltd

TEDDS® also includes a comprehensive, ever-expanding library of structural engineering calculations for a variety of materials and structural forms. They are easy to use, flexible and result in high quality documents, which can be easily checked and shared with colleagues. The library is available for specific regions including the USA, Canada, Asia, Australia and the UK. To write your own calculations, you simply type formulae within a Microsoft Word document and then use TEDDS to do the calculations. When the inevitable design changes occur, simply amend your calculations and recalculate the document, allowing TEDDS to do the hard work. The document can be modified easily until it meets your exact requirements.

TEDDS® saves time; ensures accuracy by eliminating arithmetic errors; easy to use; easy to edit; first-rate documentation. An excellent learning aid when designing to new or unfamiliar design codes

- Standpipe tank for Goldenfields Water County Council at Barellan, New South Wales - the highest and largest standpipe tank built so far by APT

