



Dr. Roberto Nascimbene

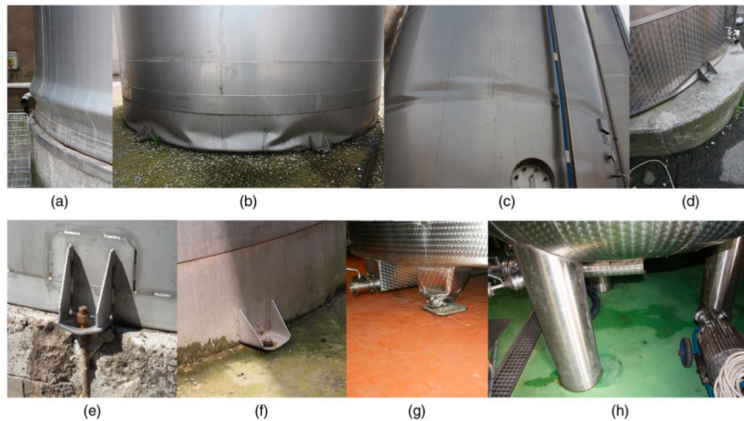


Fig. 5. Observed failure mechanisms: (a) elephant's foot buckling; (b) diamond-shaped buckling; (c) secondary diamond-shaped buckling; (d) combined diamond buckling and failure of anchors; (e) concrete spalling at the anchorage; (f) bending of anchor plates; (g) shear-buckling of a leg; (h) sliding of an unanchored system

From: Emanuele Brunesi, Roberto Nascimbene, Marco Pagani and Dumitru Beilic, "Seismic performance of storage steel tanks during the May 2012 Emilia, Italy Earthquakes", ASCE J. Perform. Constr. Facil., 04014137, (publication date not given in the pdf file; the most recent reference listed at the end of the paper is dated 2014)

See:

<http://www.eucentre.it/structural-analysis/human-resources/roberto-nascimbene/?lang=en>

https://www.researchgate.net/profile/Roberto_Nascimbene

<http://unipv.academia.edu/RobertoNascimbene>

<https://www.youtube.com/watch?v=bN91QcyVeLM>

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Selected Publications:

Nascimbene, R. and Venini, P., A New Locking-free Equilibrium Mixed Element for Plane Elasticity with Continuous Displacement Interpolation. *Computer Methods in Applied Mechanics and Engineering*, 191(17-18): 1843–1860, 2001

DellaCroce, L., Venini, P. and Nascimbene, R., Numerical Simulation of an Elastoplastic Plate via Mixed Finite Elements. *Journal of Engineering Mathematics*, 46: 69–86, 2003

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R. Nascimbene, "An arbitrary cross section, locking free, shear-flexible curved beam finite element", *International Journal for Computational Methods in Engineering Science and Mechanics*, Vol. 14, No. 2, pp 90-103, 2013

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R. Nascimbene, “Towards non-standard numerical modeling of thin-shell structures: Geometrically linear formulation”, International Journal for Computational Methods in Engineering Science and Mechanics, Vol. 15, No. 2, pp 126-141, 2014

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