

(b) Tripping of the Stiffener



Professor Gilbert Y. Grondin

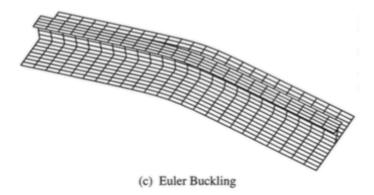


Fig. 2. Failure modes of stiffened plates.

From: G.Y. Grondin, A.E. Elwi, and J.J.R. Cheng, "Buckling of stiffened steel plates—a parametric study", J Constr Steel Res, 50(2):151–175, 1999

See:

http://65.54.113.26/Author/21917041/gilbert-y-grondin https://www.researchgate.net/profile/Gilbert_Grondin http://www.cisc-icca.ca/education/course-leaders/gilbert-grondin,-ph-d-,-ing

AECOM and Civil and Environmental Engineering University of Alberta, Canada

Biography:

Prior to joining AECOM in June 2012, he was professor of Civil Engineering at the University of Alberta for 17 years. His research focused on the behavior of connections, fatigue of steel structures, steel plate walls and stiffened steel plates. He is a member of CSA-S16, CSA-G40.20/G40.21, the Research and chair of CSA-S6 steel structures sub-committee.

Selected Publications:

Dawe, J.L. and G.Y. Grondin, Inelastic buckling of steel plates, Proc. ASCE,111, ST1 (1985), 95–107. Grondin, G.Y., Q. Chen, A.E. Elwi and J.J.R. Cheng, 1998. Stiffened Steel Plates under Compression and Bending. Journal of Constructional Steel Research, 45: 125-148.

G.Y. Grondin, A.E. Elwi, and J.J.R. Cheng, "Buckling of stiffened steel plates—a parametric study", J Constr Steel Res, 50(2):151–175, 1999

Dorey, A.B., Murray, D.W., Cheng, J.J.R., Grondin, G.Y. and Zhou, Z.J. (1999). Testing and Experimental Results for NPS30 Line Pipe under Combined Loads. Proc. ASME Offshore Mechanics and Offshore Engineering, St. Johns, Newfoundland, Canada, July 11-16, 1999, 73-81

Sheikh, I.A., Grondin, G.Y., and Elwi, A.E. (2002). Stiffened steel plates under uniaxial compression, J. of Constructional Steel Research, Vol.58, pp.1061-1080.

Sheikh IA, Elwi AE, Grondin GY. (2003) Stiffened Steel Plates under Combined Compression and Bending. Journal of Constructional Steel Research. 59: 911-930.

Anjan K. Bhowmick, Gilbert Grondin and Robert G. Driver, "Nonlinear seismic analysis of perforated plate shear walls", Journal of Constructional Steel Research, Vol. 94, pp 103-113, February 2014