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Selected Publications:

Shahabeddin Torabian, Baofeng Zheng and Benjamin W. Schafer, “Experimental study and modeling of cold-formed steel lipped channel stub beam-columns”, Proceedings of the Annual Stability Conference, Strutural Stability Research Council, Toronto, Canada, March 25-28, 2014

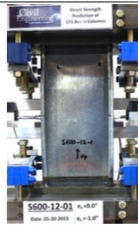
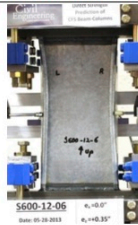

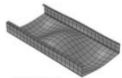
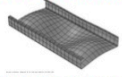



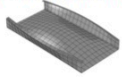


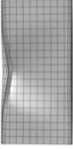
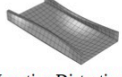
Shahabeddin Torabian and Benjamin W. Schafer, “Role of local slenderness in the rotation capacity of structural steel members”, Journal of Constructional Steel Research, Vol. 95, pp 32-43, April 2014

Shahabeddin Torabian, Baofeng Zheng and Benjamin W. Schafer, “Experimental response of cold-formed steel lipped channel beam-columns”, Thin-Walled Structures, Vol. 89, pp 152-168, April 2015

Torabian S, Zheng B and Schafer BW, Development of a new beam-column design method for cold-formed steel lipped channel members. In: 22nd international specialty conference on cold-formed steel design and construction, St Louis, MO, 5–6 November, pp. 359–376. Rolla, MO: Missouri University of Science and Technology, 2014

Abdullah Mahmoud, Shahabeddin Torabian, Angelina Jay, Andrew Myers, Eric Smith, Benjamin W. Schafer, “Modeling protocols for elastic buckling and collapse analysis of spirally welded circular hollow thin-walled sections”, Proceedings of the Annual Stability Conference Structural Stability Research Council (SSRC)

Table 4: Failure modes in principal axes

	Minor axis bending			Imperfection pattern in FEM analysis
	Lip in tension	Lip in compression	Major axis bending	
	$\theta_{MM}=270^\circ, \phi_{PM}=79.8^\circ$	$\theta_{MM}=90^\circ, \phi_{PM}=58.0^\circ$	$\theta_{MM}=1.8^\circ, \phi_{PM}=65^\circ$	
Experiment / Deformed Shaped				
	WLB	FDB	FDB	
				
FEM				
	(L-) (D-)	(L-) (D-)	(L-) (D-)	

From: Shahabeddin Torabian, Baofeng Zheng and Benjamin W. Schafer, “Experimental study and modeling of cold-formed steel lipped channel stub beam-columns”, Proceedings of the Annual Stability Conference, Strutural Stability Research Council, Toronto, Canada, March 25-28, 2014

Nashville, Tennessee, March 24-27, 2015

Jay, A., Torabian, S., Mahmoud, A., Myers, A. T., Schafer, B.W., Smith E. (2015) "Static Flexural Local Buckling Tests on Large Scale Spirally Welded Tubes for use as Wind Turbine Towers". Structures Congress 2015, Portland-Oregon, USA

Babak Keykhosro Kiani, Shahabeddin Torabian and Seyed Rasou Mirghaderi, "Local seismic stability of flanged cruciform sections (FCSs)", Engineering Structures, Vol. 96, pp 126-138, August 2015

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Angelina Jay, Andrew T. Myers, Fariborz Mirzale, Abdullah Mahmoud, Shahabeddin Torabia, Eric Smith and Benjamin W. Schafer, "Large-scale bending tests of slender tapered spirally welded steel tubes", ASCE Journal of Structural Engineering, Vol. 142, No. 12, December 2016

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Mahmoud, A., Mirzaie, F., Torabian, S., Jay, A., Myers, A. T., Smith, E., Schafer, B. W. (2016) "Collapse Analysis of Spirally Welded Tapered Tubes under Flexural Moments using Measured and Generated Imperfections". Proceedings of the 7th International Conference on Coupled Instabilities in Metal Structures. Baltimore-Maryland, USA.

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Fariborz Mirzaie, Andrew T. Myers, Angelina Jay, Abdulla Mahmoud, Shahabeddin Torabian, Eric Smith and Benjamin W. Schafer, "Imperfection measurements to predict buckling behavior of slender steel tubes", Thin-Walled Structures, Vol. 123, pp 270-281, February 2018

David C. Fratamico, Shahabeddin Torabian, Xi Zhao, Kim J.R. Rasmussen and Benjamin W. Schafer, "Experiments on the global buckling and collapse of built-up cold-formed steel columns", Journal of Constructional Steel Research, Vol. 144, pp 65-80, May 2018

David C. Fratamico, Shahabeddin Torabian, Xi Zhao, Kim J.R. Rasmussen and Benjamin W. Schafer, "Experimental study on the composite action in sheathed and bare built-up cold-formed steel columns", Thin-Walled Structures, Vol. 127, pp 290-305, June 2018