

Figure 1. (a) Angle section and (b) symbols and notations used.

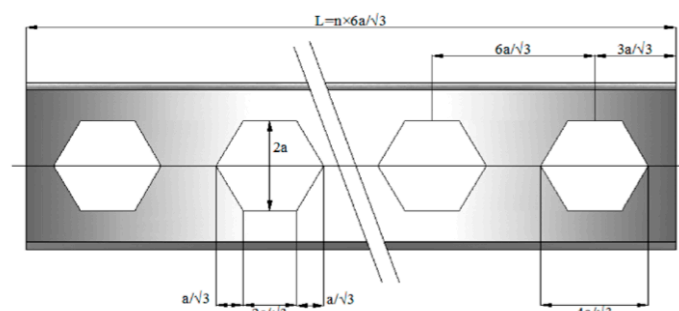


Figure 1. Notations and geometry of castellated beam with hexagonal web openings.

Left-hand image is from: Wei-bin Yuan, Wei Zhan, Jie Xu and Nan-ting Yu, “Nonlinear instability of angle section beams under uniformly distributed loads”, *International Journal of Steel Structures*, Vol. 16, No. 2, pp 309-315, 2016

Right-hand image is from: Wei-bin Yuan, Nan-ting Yu, Zhao-shu Bao and Li-ping Wu, “Deflection of castellated beams subjected to uniformly distributed transverse loading”, *International Journal of Steel Structures*, Vol. 16, No. 3, pp 813-821, September 2016

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See:

https://www.researchgate.net/scientific-contributions/2123059889_Weibin_Yuan

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Selected Publications:

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Nan-ting Yu, Boksun Kim, Wei-bin Yuan, Long-yuan Li and Feng Yu, "An analytical solution of distortional buckling resistance of cold-formed steel channel-section beams with web openings", *Thin-Walled Structures*, Vol. 135, pp 446-452, February 2019