

Professor Yuansheng Cheng

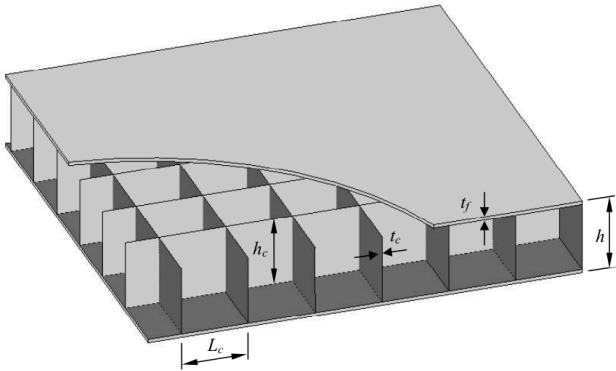


Figure 1. Key dimensions of a square honeycomb panel.

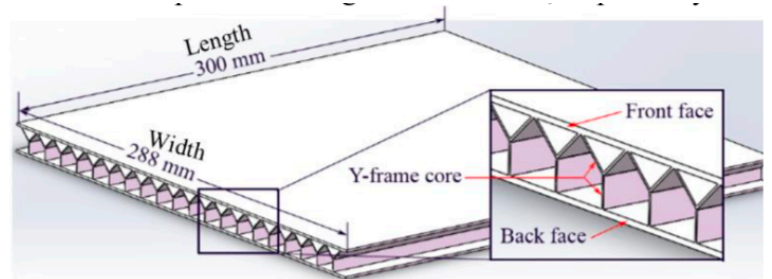


Figure 1. Schematic of the Y-frame core sandwich panel.

Left-hand image is from: J. Liu, F.T.K. Au, Y.S. Cheng and R.F. Li, “A semi-analytical method for bending, buckling and free vibration analyses of sandwich panels with square honeycomb cores”, *International Journal of Structural Stability and Dynamics*, Vol. 10, No. 1, pp 127-151, 2010

Right-hand image is from: Ting Liu, Yuansheng Cheng, Jun Liu, Ganchao Chen, Changhai Chen and Pan Zhang, “Dynamic response of metallic Y-frame core sandwich panels subjected to air blast loading – Numerical investigation”, *Proceedings of the ASME 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2019)*, June 9-14, 2019, Glasgow, Scotland, Paper OMAE2019-96628

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Selected Publications:

J. Liu, F.T.K. Au, Y.S. Cheng and R.F. Li, “A semi-analytical method for bending, buckling and free vibration analyses of sandwich panels with square honeycomb cores”, *International Journal of Structural Stability and Dynamics*, Vol. 10, No. 1, pp 127-151, 2010

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Ganchao Chen, Pan Zhang, Jun Liu, Yuansheng Cheng and Hao Wang, "Experimental and numerical analyses on the dynamic response of aluminum foam core sandwich panels subjected to localized air blast loading", *Marine Structures*, Vol. 65, pp 343-361, May 2019

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Sipei Cai, Jun Liu, Pan Zhang, Chunpeng Li and Yuansheng Cheng, "Dynamic response of sandwich panels with multi-layered aluminum foam/UHMWPE laminate cores under air blast loading", *International Journal of Impact Engineering*, 2019

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