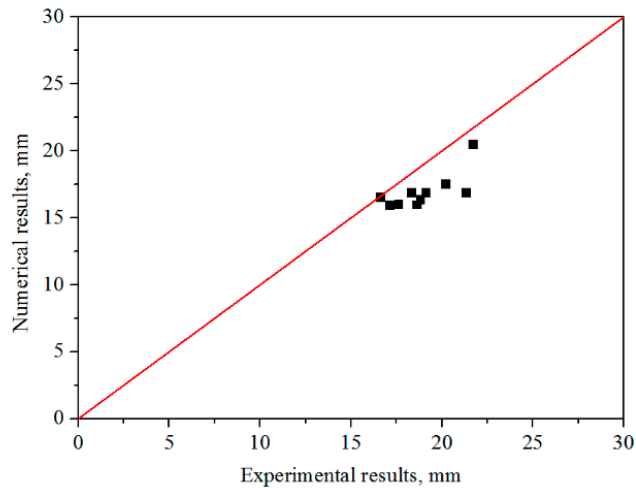


(a) Deformation modes



(b) Deflection of back face sheet

Fig.4 Comparison of experimental and numerical results.

From: Zhihua Wang, Shiqiang Li, Genwei Wang, Guoyun Lu and Longmao Zhao, "The dynamic behavior of sandwich plate with layered graded metallic honeycomb cores", Proceedings of the ASME 2016 35<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMAE2016), June 19-24, 2016, Busan, Korea



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**Selected Publications:**

Tan, P. J., Reid, S. R., Harrigan, J. J., Zou, Z., and Li, S., 2005, "Dynamic Compressive Strength Properties of Aluminium Foams. Part I - Experimental Data and Observations," *J. Mech. Phys. Solids*, 53(10), pp. 2174–2205.

Tan, P. J., Reid, S. R., Harrigan, J. J., Zou, Z., and Li, S., 2005, "Dynamic Compressive Strength Properties of Aluminium Foams. Part II - 'Shock' Theory and Comparison With Experimental Data and Numerical Models," *J. Mech. Phys. Solids*, 53(10), pp. 2206–2230.

S.Q. Li, J.F. Chen, L.A. Bisby, Y.M. Hu, J.G. Teng, Strain efficiency of FRP jackets in FRP-confined concrete-filled circular steel tubes, *Int. J. Struct. Stab. Dyn.*, 12 (1) (2012), pp. 75–94

Li, S., Wang, Z., Wu, G., Zhao, L., & Li, X. (2014). Dynamic response of sandwich spherical shell with graded metallic foam cores subjected to blast loading. *Composites Part A Applied Science and Manufacturing*, 56, 262–271.

Shiqiang Li, Guoxing Lu, Zhihua Wang, Longmao Zhao and Guiying Wu, “Finite element simulation of metallic cylindrical sandwich shells with graded aluminum tubular cores subjected to internal blast loading”, *International Journal of Mechanical Sciences*, Vols. 96-97, pp 1-12, June 2015

Li, S.Q., Li, X., Wang, Z.H., et al.: Finite element analysis of sandwich panels with stepwise graded aluminum honeycomb cores under blast loading. *Compos. A Appl. Sci.* 80, 1–12 (2016)

Li, S. , 2016, “ Recoverable and Programmable Collapse From Folding Pressurized Origami Cellular Solids,” *Phys. Rev. Lett.*, 117(11), p. 114301.

Zhihua Wang, Shiqiang Li, Genwei Wang, Guoyun Lu and Longmao Zhao, “The dynamic behavior of sandwich plate with layered graded metallic honeycomb cores”, *Proceedings of the ASME 2016 35<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMAE2016)*, June 19-24, 2016, Busan, Korea

Shiqiang Li, Xin Li, Zhihua Wang, Guiying Wu, Guoxing Lu and Longmao Zhao, “Sandwich panels with layered graded aluminum honeycomb cores under blast loading”, *Composite Structures*, Vol. 173, pp 242-254, August 2017

Xin Li, Shiqiang Li, Zhihua Wang, Jinglei Yang and Guiying Wu, “Response of aluminum corrugated sandwich panels under foam projectile impact – Experiment and numerical simulation”, *Journal of Sandwich Structures & Materials*, Vol. 19, No. 5, pp 595-615, September 2017

Xin Li, Peiwen Zhang, Li Shiqiang, Zhihua Wang and Guiying Wu, “Dynamic response of aluminum honeycomb sandwich panels under foam projectile impact”, *Mechanics of Advanced Materials and Structures*, Vol. 25, No. 8, pp 637-646, 2018

Xiaomin Ma, Xin Li, Shiqiang Li, Rujiang Li, and Guiying Wu, “Blast response of gradient honeycomb sandwich panels with basalt fiber metal laminates as skins”, *International Journal of Impact Engineering*, Vol. 123, pp 126-139, January 2019

Shiqiang Li, Boli Yu, Dora Karagiozova, Zhifang Liu, Guoxing Lu and Zhihua Wang, “Experimental, numerical, and theoretical studies of the response of short cylindrical stainless steel tubes under lateral air blast loading”, *International Journal of Impact Engineering*, Vol. 124, pp 48-60, February 2019

Yue Zhang, Tao Jin, Shiqiang Li, Dong Ruan, Zhihua Wang and Guoxing Lu, “Sample size effect on the mechanical behavior of aluminum foam”, *International Journal of Mechanical Sciences*, Vol. 151, pp 622-638. 2019