



**Professor Joao Ramoa Correia**

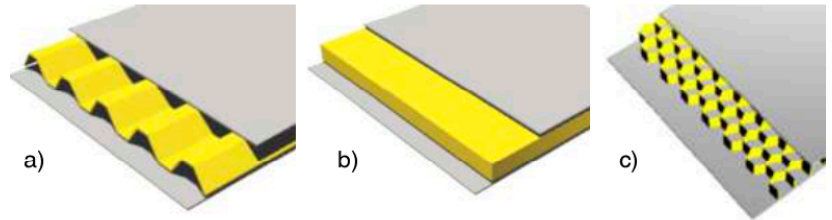


Figura 1. Exemplos de tipologias de painéis sandwich.

From: Goncalo Escusa, Julio Garzon-Roca, Hassan Abdolpour, Jose Sena-Cruz, Joaquim Barros, Isabel Valente, David Martins, Joao R. Correia and Fernando A. Branco, “Experimental characterization of the mechanical behavior of sandwich panels with GFRP skins and a polyurethane foam core” (in Portuguese), 5as Jornadas Portuguesas de Engenharia de Estruturas (JPEE 2014), 2014

See:

[https://www.researchgate.net/profile/Joao\\_Correia5](https://www.researchgate.net/profile/Joao_Correia5)

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CERIS/ICIST, Department of Civil Engineering, Architecture and Georesources  
Instituto Superior Técnico (IST), Universidade de Lisboa, Portugal

### **Selected Publications:**

J. R. Correia, S. Cabral-Fonseca, F. A. Branco, J. G. Ferreira, M. I. Eusébio and M. P. Rodrigues, Durability of glass fibre reinforced polyester (GFRP) pultruded profiles for structural applications, *Mech. Comp. Mater.* 42 (4) (2006) 325–338.

J. R. Correia, F. A. Branco, J. A. Gonilha, N. Silva and D. Camotim, GFRP pultruded flexural members: Assessment of existing design methods, *Struct. Eng. Int.* 20 (4) (2010) 362–369.

J. R. Correia, F. A. Branco, N. M. F. Silva, D. Camotim and N. Silvestre, First-order, buckling and post-buckling behaviour of GFRP pultruded beams. Part 1: Experimental study, *Comp. Struct.* 89 (21–22) (2011) 2052–2064.

Silva, N., Camotim, D., Silvestre, N., Correia, J., and Branco, F. (2011). First-order, buckling and post-buckling behaviour of GFRP pultruded beams. Part 2: Numerical simulation. *Computers and Structures*, 89:2065–2078.

Correia JR, Garrido M, Gonilha JA, Branco FA. GFRP sandwich panels with PU foam and PP honeycomb cores for civil engineering structural applications: effects of introducing strengthening ribs. *Int J Struc Integr* 2012;3:127e47

M. M. Correia, F Nunes, J. R. Correia and N. Silvestre, “Buckling Behavior and Failure of Hybrid Fiber-Reinforced Polymer Pultruded Short Columns”, *ASCE Journal of Composites for Construction*, Vol. 17, No. 4, pp. 463 – 475, August 2013

F. Nunes, M. Correia, J.R. Correia, N. Silvestre and A. Moreira, “Experimental and numerical study on the structural behavior of eccentrically loaded GFRP columns”, *Thin-Walled Structures*, Vol. 72, pp 175-187, November 2013

Goncalo Escusa, Julio Garzon-Roca, Hassan Abdolpour, Jose Sena-Cruz, Joaquim Barros, Isabel Valente, David Martins, Joao R. Correia and Fernando A. Branco, "Experimental characterization of the mechanical behavior of sandwich panels with GFRP skins and a polyurethane foam core" (in Portuguese), 5as Jornadas Portuguesas de Engenharia de Estruturas (JPEE 2014), 2014

Lourenco Almeida Fernandes, Jose Gonilha, Joao R. Correia, Nuno Silvestre and Francisco Nunes, "Web-crippling of GFRP pultruded profiles. Part 1: Experimental Study", Composite Structures, Vol. 120, pp 565-577, February 2015

Lourenco Almeida Fernandes, Francisco Nunes, Nuno Silvestre, Joao R. Correia and Jose Gonilha, "Web-crippling of GFRP pultruded profiles. Part 2: Numerical analysis and design", Composite Structures, Vol. 120, pp 578-590, February 2015

Francisco Nunes, Joao R. Correia and Nuno Silvestre, "Structural behaviour of hybrid FRP pultruded columns. Part 1: Experimental study", Composite Structures, Vol. 139, pp 291-303, April 2016

Francisco Nunes, Nuno Silvestre and Joao R. Correia, "Structural behaviour of hybrid FRP pultruded columns. Part 2: Numerical study", Composite Structures, Vol. 139, pp 304-319, April 2016

Francisco Nunes, Joao R. Correia and Nuno Silvestre, "Structural behavior of hybrid FRP pultruded beams. Experimental, numerical and analytical studies", Thin-Walled Structures, Vol. 106, pp 201-217, September 2016

Miguel Machado-e-Costa, Luis Valarinho, Nuno Silvestre and Joao R. Correia, "Modeling of the structural behavior of multilayer laminated glass beams: Flexural and torsional stiffness and lateral-torsional buckling", Engineering Structures, Vol. 128, pp 265-282, December 2016

M.R.T. Arruda, M. Garrido, L.M.S Castro, A.J.M. Ferreira, J.R. Correia, "Numerical modelling of the creep behaviour of GFRP sandwich panels using the Carrera Unified Formulation and Composite Creep Modelling", Composite Structures, February 2017

David Martins, Miguel Proenca, Joao R. Correia, Jose Gonilha, Mario Arruda and Nuno Silvestre, "Development of a novel beam-to-column connection system for pultruded GFRP tubular profiles", Composite Structures, March 2017

Mario F. Sa, Augusto M. Gomes, Joao R. Correia and Nuno Silvestre, "Flexural behavior of pultruded GFRP deck panels with snap-fit connections", International Journal of Structural Stability and Dynamics, Vol. 18, No. 2, 1850019, February 2018

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M.R.T. Arruda, L.M.S Castro, A.J.M. Ferreira, D. Martins, J.R. Correia, "Physically non-linear analysis of beam models using Carrera unified formulation", Composite Structures, April 2018

Mario Garrido and Joao R. Correia, "Elastic and viscoelastic behaviour of sandwich panels with glass-fibre reinforced polymer faces and polyethylene terephthalate foam core", Journal of Sandwich Structures & Materials, Vol. 20, No. 4, pp 399-424, May 2018

M. Garrido, R. Teixeira, J.R. Correia, L.S. Sutherland, "Quasi-static indentation and impact in glass-fibre reinforced polymer sandwich panels for civil and ocean engineering applications", Journal of Sandwich Structures and Materials, February 2019