Figure 1: Geometries and dimensions of S1, S2, and S3
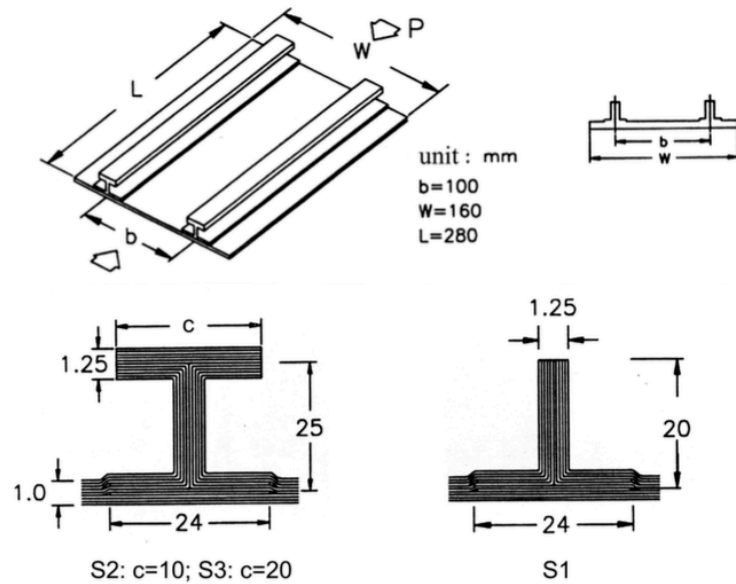
Professor Carlos Guedes Soares

See:
https://www.researchgate.net/profile/Carlos_Guedes_Soares
https://scholar.google.com/citations?user=WDJnwJ8AAAAJ&hl=en
http://www.cost.eu/about_cost/who/(type)/5/(wid)/22093
http://www.journals.elsevier.com/reliability-engineering-and-system-safety/editorial-board/carlos-guedes-soares
http://www.researcherid.com/ProfileView.action?returnCode=ROUTER.Unauthorized&queryString=KG0UuZjN5WnymbIl37KAJYAO5t0Z9QOjTzA1L0c8qeI%253D&SrcApp=CR&Init=Yes

President of the Centre for Marine Technology and Ocean Engineering (CENTEC)
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Biography No. 1 (from http://www.wrec.ro/wp-content/uploads/2015/01/Soares.pdf):
Prof. C. Guedes Soares received the M.S. and Ocean Engineer degrees from the Massachusetts Institute of Technology, Cambridge, in 1976, the Ph.D. degree from the Norwegian Institute of Technology, Trondheim, Norway, in 1984, and the Doctor of Science degree from the Technical University of Lisbon, Lisbon, Portugal, in 1991. He is a Professor of naval architecture and marine engineering and the President of the Centre for Marine Technology and Ocean Engineering (CENTEC), which is a research center of the University of Lisbon that is recognized and funded by the Portuguese Foundation for Science and Technology. He is Subject Editor of Renewable Energy for Ocean Energy and Wind Offshore.

Biography No. 2 (from http://www.plenose.unirc.it/partner/carlos-guedes-soares/):
Carlos Guedes Soares (Coordinator of PLENOSE CENTEC unit) is Professor and the President of the Centre for Marine Technology and Engineering at IST (CENTEC). He had his post-graduate education at the

Massachusetts Institute of Technology and the Norwegian Institute of Technology. He has been involved in about 60 European projects, coordinating 6 of them, and has also co-ordinated about 15 national projects. He has published about 400 papers in international journals, and 600 papers in books and conferences, and is a member of several international organisations and of the Editorial Board of several scientific journals. He has coordinated projects such as WAVEMOD, HIPOCAS, FREAK WAVES, SHIPREL, MARSTRUCT and SAFERELNET dealing with the design and safety of floating structures in extreme conditions. It was also technical coordinator of projects like REBASDO, SAFEOFFLOAD, WAVELOADS, HANDLING WAVES and EXTREME SEAS.

Selected Publications:
Books:
Carlos Guedes Soares & P.K. Das (Editors), Analysis and Design of Marine Structures: including CD-ROM, CRC Press, 2009, 520 pages
C. Guedes Soares and R.A. Shenoi (Editors), Analysis and Design of Marine Strutures V, CRC Press, Mar 2, 2015 - Technology & Engineering, 800 pages
Journal articles:
GUEDES SOARES, C., SOREIDE, TH. Behaviour and design of stiffened plates under predominantly compressive loads. International Shipbuilding Progress, p. 341, 1983.
Faulkner, D., Guedes Soares, C. and Warwick, D.M., Modelling requirements for structural and assessment. In D. Faulkner, M.J. Cowling and A. Incecik, (Eds.), Integrity of Offshore Structures – 3, pp. 25-54. London: Elsevier Applied Science, 1987
Faulkner D, Guedes Soares C, Warwick DM. Modelling requirements for structural design and assessment. Integrity of Offshore Structures-3, IOS-87, Elsevier Applied Science, 1988.
GORDO, J. M., GUEDES SOARES, C. & FAULKNER, D., Approximate assessment of the ultimate longitudinal strength of the hull girder. Journal of Ship Research, 40, 60-69, 1996
Guedes Soares, C. and Gordo, J.M., Design methods for stiffened plates under predominantly uniaxial compression, Marine Structures, Vol.10, pp. 465-497, 1997
CHEN, N.-Z., SUN, H.-H. & GUEDES SOARES, C., Reliability analysis of a ship hull in composite material. Composite Structures, 62, 59-66, 2003
Z. Sadovsky, A. B. Teixeira and C. Guedes Soares, Degradation of the compressive strength of rectangular plates due to initial deflection, Thin-Walled Structures, 43 (2005) 65–82.
Z. Sadovsky, A. B. Teixeira and C. Guedes Soares, Degradation of the compressive strength of square plates due to initial deflection, Journal of Constructional Steel Research, 62 (2006) 369–377.
Nian-Zhong Chen and C. Guedes Soares, "Reliability assessment of post-buckling compressive strength of laminated composite plates and stiffened panels under axial compression", International Journal of Solids and Structures, Vol. 44, Nos. 22-23, November 2007, pp. 7167-7182
CHEN, N.-Z. & GUEDES SOARES, C., Longitudinal Strength Analysis of Ship Hulls of Composite Materials under Sagging Moments. Composite Structures, 77, 36-44, 2007
CHEN, N.-Z. & GUEDES SOARES, C., Ultimate longitudinal strength of ship hulls of composite materials. Journal of Ship Research, 52, 184-193, 2008
M. Witkowska and C. Guedes Soares, Collapse strength of stiffened panels with local dent damage, Proc. of the 27th ASME Intl. Conference on Offshore Mechanics and Arctic Engineering, Estoril, Portugal (2008) 965–973.
N.-Z. Chen, C. Guedes Soares, Spectral stochastic finite element analysis for laminated composite plates, Comput. Methods Appl. Mech. Engrg. 197 (2008) 4830–4839.

S. Saad Eldeen and C. Guedes Soares. Effect of pitting corrosion on the collapse strength of rectangular plates under axial compression. In Proceedings of Analysis and Design of Marine Structures, pages 231–236, Potugal, 2009

José Manuel Gordoa and C. Guedes Soares, "Compressive tests on stiffened panels of intermediate slenderness", Thin-Walled Structures, Vol. 49, No. 6, June 2011, pp. 782-794

Sadovský, Z., Guedes Soares, C.: Artificial neural network model of the strength of thin rectangular plates with weld induced initial imperfections. Reliability Engineering & System Safety 96(6), 713–717 (2011)

Mantari, J. L.; Oktem, A. S.; and Guedes Soares, C.: Static and Dynamic Analysis of Laminated Composite and Sandwich Plates and Shells by Using a New Higher-Order Shear Deformation Theory. Composite Structures, vol. 94, 2011, pp. 37-49.

Jiang X and Guedes-Soares C 2011 Ultimate capacity behaviour of pitted steel plates under biaxial compression. Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011); Rotterdam, The Netherland. New York, USA: ASME; OMAE2011-49980

Mantari, J. L. and Guedes Soares, C.: Analysis of Isotropic and Multilayered Plates and Shells by Using a Generalized Higher-Order Shear Deformation Theory. Composite Structures, vol. 94, 2012, pp. 2640-2656.

Mantari, J. L.; Oktem, A. S.; and Guedes Soares, C.: Bending and Free Vibration Analysis of Isotropic and Multilayered Plates and Shells by Using a New Accurate Higher-Order Shear Deformation Theory. Composites Part B, vol. 43, 2012, pp. 3348-3360.

Mantari JL, Oktem AS, Soares CG. A new higher order shear deformation theory for sandwich and composite laminated plates. Compos Part B Eng 2012;43(3):1489–99.

Mantari JL, Oktem AS, Soares CG. Bending response of functionally graded plates by using a new higher order shear deformation theory. Compos Struct 2012;94(2):714–23.

Mantari JL, Soares CG. Bending analysis of thick exponentially graded plates using a new trigonometric higher order shear deformation theory. Compos Struct 2012;94(6):1991–2000.

Oktem AS, Mantari JL, Soares CG. Static response of functionally graded plates and doubly-curved shells based on a higher order shear deformation theory. Eur J Mech – A/Solids 2012;36:163–72.

Mantari JL, Soares CG. A novel higher-order shear deformation theory withstretching effect for functionally graded plates. Compos Part B Eng 2013;45(1):268–81.

Ming Cai Xu, Masahiko Fujikubo and C. Guedes Soares, "Influence of model geometry and boundary conditions on the ultimate strength of stiffened panels under uniaxial compressive loading", Journal of Offshore Mechanics and Arctic Engineering, Vol. 135, No. 4, 041603, September 2013

Ming Cai Xu, Daisuke Yanagihara, Masahiko Fujikubo and Carlos Guedes Soares, "Influence of boundary conditions on the collapse behaviour of stiffened panels under combined loads", Marine Structures, Vol. 34, pp 205-225, November 2013

Mantari, J.L. and Soares, C.G., "Optimized sinusoidal higher order shear deformation theory for the analysis of functionally graded plates and shells", Compos. B Eng., 56(1), 126-136, 2014