

REFERENCES

- [1] P. Coomasaru, S. D. T. S. Wickramasuriya, and B. A. K. S. Perera, "Minimising concrete wastage in Sri Lanka using lean construction techniques," in *Proc. 7th World Construction Symposium: Built Asset Sustainability: Rethinking Design, Construction and Operations*, Colombo, Sri Lanka, Jun.–Jul. 2018, pp. 384–394.
- [2] U. Kulatunga, R. Amaratunga, R. Haigh, and R. Rameezdeen, *Sources of Construction Material Wastage in Sri Lankan Sites*, Rotterdam, Netherlands: In-house publishing, 2005.
- [3] D. L. L. Rocha, L. U. D. T. Júnior, M. T. Marvila, E. C. Pereira, D. Souza, and A. R. G. D. Azevedo, "A Review of the Use of Natural Fibres in Cement Composites: Concepts, Applications and Brazilian History," *Polymers*, vol. 14, no. 10, 2022, doi:10.3390/polym14102043.
- [4] Hamri, A. E., Mouhib, A., Ourmiche, A., Chigr, M., and Mansouri, N. E. E., "Study of the Effect of Cedar Sawdust Content on Physical and Mechanical Properties of Cement Boards," *Molecules*, 2024, <https://doi.org/10.3390/molecules29184399>.
- [5] Khorami, M., Sobhani, J., "An experimental study on the flexural performance of agro-waste cement composite boards," *International Journal of Civil Engineering*, Volume II (4), 2013, 207-216.
- [6] Asasutjarit, C., Hirunlabh, J., Khedari, J., Charoenvai, S., Zeghamati, B., Cheul Shin, U., "Development of coconut coir-based lightweight cement board," *Construction and Building Materials*. 21, 2007, 277–288, <https://doi.org/10.1016/j.conbuildmat.2005.08.028>.
- [7] Alireza, A., Catchmark, J., Rajabipour, R., "Ductility enhancement of autoclaved cellulose fibre reinforced cement boards manufactured using a laboratory method simulating the Hatschek process," *Construction and Building Materials*, 135, 251–259. <http://dx.doi.org/10.1016/j.conbuildmat.2017.01.001>.
- [8] Khorami, M., Ganjian, E., & Srivastav, A., "Feasibility study on production of fibre cement board using waste Kraft pulp in corporation with polypropylene and acrylic fibres," *Materials Today: Proceedings*, 3(10), 2165–2171. <https://doi.org/10.1016/j.matpr.2016.01.023>.
- [9] Ganjian, E., Khorami, M., "Flexural strength behaviour of fibre cement board reinforced by blast furnace slag fibres," *Materials Science, Engineering*. <https://www.iibcc.biz/wp-content/uploads/2019/05/IIBCC2014-Proceedings->

Flexural-strength-behaviour-fiber-cement-board-reinforced-blast-furnace-slag-fibers.pdf.

- [10] Khorami, M., Ganjian, E., Improvement of Flexural Performance of Fibre Cements Composite Board through Fibre Impregnation. Fourth International Conference on Sustainable Construction Materials and Technologies, Las Vegas, Nevada, 2016, USA.
- [11] Lukmanova, L. V., Mukhametrakhimov, R. Kh., Gilmanshin, I. R., “Investigation of mechanical properties of fibre-cement board reinforced with cellulosic fibres,” IOP Conference Series: Materials Science and Engineering, 570, 2019, 012113. <https://doi.org/10.1088/1757-899X/570/1/012113>.
- [12] Gorzelańczyk, T., Pachnicz, M., Róžański, A., Schabowicz, K., “Multi-Scale Structural Assessment of Cellulose Fibres Cement Boards Subjected to High Temperature Treatment,” *Materials*, 12, 2019, doi: 10.3390/ma12152449 <https://doi.org/10.3390/ma12152449>.
- [13] Schabowicz, K., Sulik, P., Gorzelanczyk, T., Zawisław, Ł., “Assessment of the Destruction of a Fibre Cement Board Subjected to Fire in a Large-Scale Study,” *Materials*, 2022, <https://doi.org/10.3390/ma15082929> <https://www.mdpi.com/journal/materials>
- [14] M. Jamshidi, H. Pakravan, R. F. Pacheco-Torgal, "Assessment of the Durability Performance of Fibre-Cement," *Journal of Materials in Civil Engineering*, vol. 25, no. 6, 2013, pp. 819–823
- [15] Coutts, R. S. P., “Autoclaved beaten wood fibre-reinforced cement composites,” *Composites*, 15(2), 139–143, 1984, [https://doi.org/10.1016/0010-4361\(84\)90726-2](https://doi.org/10.1016/0010-4361(84)90726-2).
- [16] G. Kajavaran, "Feasibility study on using cement fibre boards supported on cold-formed steel sections for flooring," B.Sc. thesis, Dept. of Civil Eng., Univ. of Moratuwa, Sri Lanka, 2024.
- [17] K. Ranawaka and M. Mahendran, "Experimental study of the mechanical properties of light gauge cold-formed steels at elevated temperatures," *Fire Safety Journal*, vol. 44, no. 2, 2009, pp. 219–229.
- [18] D. Dubina, V. Ungureanu, and R. Landolfo, “Design of cold-formed steel structures”, 1st ed. ECCS – European Convention for Constructional Steelwork, 2012.

- [19] J. Paurin Shah and U. K. Koshti, "Buckling Behaviour of Cold Formed Steel Channel Section," 3rd International Conference on Multidisciplinary Research & Practice, vol. IV, no. I, 2016.
- [20] A. B. Hussein and D. B. Hussein, "Effects of Lip Length and Inside Radius-to-Thickness Ratio on Buckling Behaviour of Cold-Formed Steel C-Sections," Buildings, vol. 14, p. 587, 2024, doi: 10.3390/buildings14030587.
- [21] H.-X. Wan and M. Mahendran, "Buckling Behaviour of Cold-Formed Steel Beams under Bending and Torsion," in Wei-Wen Yu International Specialty Conference on Cold-Formed Steel Structures, Baltimore, Maryland, U.S.A., 2016.
- [22] H.X. Wan, B. Huang, and M. Mahendran, "Experiments and numerical modelling of cold-formed steel beams under bending and torsion," Thin-Walled Structures, vol. 161, p. 107424, 2021, doi:10.1016/j.tws.2020.107424.
- [23] N. Dolamune Kankanamge and M. Mahendran, "Behaviour and design of cold-formed steel beams subject to lateral torsional buckling," Thin-Walled Structures, vol. 51, 2012, pp. 25–38.
- [24] J. Vijayakumar, J. Pavithra, and G. Vani, "Experimental and Analytical Study on Strengthening of Deformed Cold-Formed Steel Lipped Channel Section," International Journal of Engineering Research & Technology (IJERT), 2017.
- [25] K. Poologanathan and M. Mahendran, "Experimental studies on the shear behaviour and strength of LiteSteel Beams," Engineering Structures, 2010, [Online]. Available: <http://eprints.qut.edu.au/>
- [26] T. Ranawaka and M. Mahendran, "Experimental study of the mechanical properties of light gauge cold-formed steels at elevated temperatures," Fire Safety Journal, vol. 44, no. 2, pp. 219–229, 2009, [Online]. Available: <http://eprints.qut.edu.au/>
- [27] M. Vijayasimhan, V. Marimuthu, G. S. Palani, and P. Rama Mohan Rao, "Comparative Study on Distortional Buckling Strength of Cold-Formed Steel Lipped Channel Sections," Research Journal of Engineering Sciences, vol. 2, no. 4, 2013, pp. 10–15.
- [28] W.-W. Yu and R. A. LaBoube, Cold-Formed Steel Design, 4th ed. John Wiley & Sons, Inc., 2010.
- [29] K. Poologanathan and M. Mahendran, "Improved shear design rules of cold-formed steel beams," Engineering Structures, vol. 99, 2015, pp. 603–615, doi:10.1016/j.engstruct.2015.05.040.

- [30] BS EN 12467:2012+A2:2018, Fibre-cement flat sheets – Product specification and test methods, BSI Standards Publication.
- [31] BS EN 1383:1999, Timber structures – Test Methods – Pull-through resistance of timber fasteners.
- [32] BS EN 14358:2006, Timber structures — Calculation of characteristic 5-percentile values and acceptance criteria for a sample.
- [33] BS EN 789:2004, Timber structures - Test methods - Determination of mechanical properties of wood-based panels.
- [34] Cement bonded board EAD 210024-00-0504, European Assessment Document, EOTA, Jan. 2018.
- [35] R. S. P. Coutts, "Autoclaved beaten wood fibre-reinforced cement composites," *Composites*, vol. 15, no. 2, pp. 139–143, 1984, doi: 10.1016/0010-4361(84)90726-2.
- [36] EN 1990:2002+A1, Euro code – Basis of structural design.
- [37] EN 1991-1-1, Euro code 1: Actions on structures – Part 1-1: General actions densities, self-weight, imposed loads for buildings.
- [38] EN 1992-1-1, Euro code 2: Design of concrete structures – Part 1-1: General Rules and rules for buildings.
- [39] EN 1993-1-1, Euro code 3: Design of steel structures - Part 1-1: General rules and rules for buildings.
- [40] EN 1993-1-3, Euro code 3 - Design of steel structures - Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting.
- [41] EN 1993-1-5, Euro code 3 - Design of steel structures - Part 1-5: Plated structural elements.
- [42] EN 1995-1-1:2004+A1, Euro code 5: Design of timber structures - Part 1-1: General - Common rules and rules for buildings.
- [43] D. Dubina, V. Ungureanu, and R. Landolfo, *Design of Cold-Formed Steel Structures: Eurocode 3: Design of Steel Structures, Part 1-3 – Design of Cold-Formed Steel Structures*, 1st ed. Brussels, Belgium: ECCS – European Convention for Constructional Steelwork, 2012.