DAFTAR PUSTAKA

Abass, F., & Ismail, L., & Abd Wahab, I., & Elgadi, A., & Malaysia, H., & Raja, P., & Pahat, B. (2020). Development of a Model for OTTV and RTTV based on BIMVPL to Optimize the Envelope Thermal Performance Development of a Model for OTTV and RTTV based on BIM- VPL to Optimize the Envelope Thermal Performance. IOP Conference Series Materials Science and Engineering. 713. 8. 10.1088/1757-899X/713/1/012009.

Al-Homoud, M. (2005). A Sistematic Approach for the Thermal Design Optimization of Building Envelopes. Journal of Building Physics - J BUILD PHYS. 29. 95-119. 10.1177/1744259105056267.

Al-Tamimi, NAM. (2011). Impact of building envelope modifications on the thermal performance of glazed high-rise residential buildings in the tropics. Malaysia: University Science Malaysia; 2011.

Al-Tamimi, N. A., & Fadzil, S. F. (2011). The potential of shading devices for temperature reduction in high-rise residential buildings in the Tropics. *Procedia Engineering, 21*, 273-282. doi:10.1016/j.proeng.2011.11.2015

Albatayneh, A. (2021). Sensitivity analysis optimisation of building envelope parameters in a sub-humid Mediterranean climate zone. Energy Exploration & Exploitation. 014459872110204. 10.1177/01445987211020432.

Apuke, O. (2017). Quantitative Research Methods : A Synopsis Approach. Arabian Journal of Business and Management Review (kuwait Chapter).. 6. 40-47. 10.12816/0040336.

Asahimas. (2022). e-Katalog Produk. http://amfg.co.id/ (diakses pada 20 Mei, 2022)

Autodesk Revit Library. (2022). https://knowledge.autodesk.com (diakses 20 Mei 2022)

Badan Standardisasi Indonesia. (2020). SNI 6389:2020 *tentang Konservasi Energi Selubung Bangunan pada Bangunan Gedung*. Badan Standarisasi Nasional.

Bahri, M. S., & Nugroho, A. M. (2018). Kinerja Termal Selubung Bangunan pada Gedung Kuliah Universitas Multimedia Nusantara Serpong.

Carvalho, J.,. & Bragança, L., & Mateus, R. (2019). Optimising building sustainability assessment using BIM. Automation in Construction. 102. 170-182. 10.1016/j.autcon.2019.02.021.

Cha, H.S & Kim, J. (2020). A study on 3D/BIM-based on-site performance measurement system for building construction. Journal of Asian Architecture and Building Engineering. 19. 1-12. 10.1080/13467581.2020.1763364.

Charef, R., & Alaka, H., & Emmitt, S. (2018). Beyond the Third Dimension of BIM: A Sistematic Review of Literature and Assessment of Professional Views. Journal of Building Engineering. 19. 10.1016/j.jobe.2018.04.028.

Dhaka, S., Mathur, J., & Garg, V. (2013). Effect of building envelope on thermal environmental conditions of a naturally ventilated building block in tropical climate. *Building Services Engineering Research and Technology, 35*(3), 280-295. doi:10.1177/0143624413490177

Eastman, C. M & Teicholz, P & Sacks, R & Liston, K & Handbook B. (2008). A Guide to Building Information Modeling for Owners, Managers, Architects, Engineers, Contractors, and Fabricators, John Wiley & Sons, Hoboken, NJ, USA.

El-Sherif, S. K. (2012). The Impact of Overhangs and Side-fins on Building Thermal Comfort, Visual Comfort and Energy Consumption in the Tropics. (pp. 1-178, Rep. No. SDBE-100119). Dubai, United Arab Emirates: The British University in Dubai. http://bspace.buid.ac.ae/handle/1234/139

Fallahtafti, R., & Mahdavinejad, M. (2015). Optimisation of building shape and orientation for better energy efficient architecture. International Journal of Energy Sector Management. 9. 593-618. 10.1108/IJESM-09-2014-0001.

Gimat, M.F. and Sulaiman, M.K. (2020) "Effect on thermal performance by different types of fixed sun shading devices," International Journal of Engineering and Advanced Technology, 9(3), pp. 3713–3718. Available at: https://doi.org/10.35940/ijeat.c6298.029320.

Gondal, I., & Masood, D. S., & Khurram, M. (2019). Role of passive design and alternative energy in building energy optimization. Indoor and Built Environment. 30. 1420326X1988748. 10.1177/1420326X19887486.

Green Building Council Indonesia. (2016). Greenship Rating Tools Untuk Gedung Terbangun Versi 1.1. Green Building Council Indonesia: Jakarta, Indonesia. pp. 1–15.

Grzyl, B., Miszewska-Urbańska, E., & Apollo, M. (2017). Building information modelling as an opportunity and risk for stakeholders involved in construction investment process. *Procedia Engineering*, *196*, 1026–1033. https://doi.org/10.1016/j.proeng.2017.08.045

Habibi, S. (2017), "The promise of BIM for improving building performance", Energy and Buildings, Vol. 153, pp. 525-548.

Habibi, S. (2019). Improving building envelope performance with respect to thermal, sound insulation, and lighting: a case study. Building Acoustics. 26. 1351010X1987728. 10.1177/1351010X19877280.

Hajji, A & Hilmi, A. (2021). Façade design modification in complying the Indonesia's national standard of energy conservation for tall building envelope – Case study: Green Office Park 9, Serpong, Indonesia. IOP Conference Series: Earth and Environmental Science. 847. 012028. 10.1088/1755-1315/847/1/012028.

Hansford, M. (2011). New Civil Engineer: Future sistems, New Civil Engineer(www.nce.co.uk), London, England.

Heiselberg, P., Brohus, H., Hesselholt, A., Rasmussen, H., Seinre, E., & Thomas, S. (2009). Application of sensitivity analysis in design of Sustainable Buildings. *Renewable Energy*, *34*(9), 2030–2036. https://doi.org/10.1016/j.renene.2009.02.016

Hien, W. N., & Istiadji, A. D. (2003). Effects Of External Shading Devices On Daylighting And Natural Ventilation. *Building Simulation*, 475-482.

Ilhan, Bahriye & Yaman, Hakan. (2016). Green building assessment tool (GBAT) for integrated BIM-based design decisions. Automation in Construction. 70. 10.1016/j.autcon.2016.05.001.

Kaoula, D. & Bouchair, A. (2017). Evaluation of environmental impacts of hotel buildings having different envelopes using a life cycle analysis approach. Indoor and Built Environment. 1420326X1668323. 10.1177/1420326X16683235.

Kassem, M., & Brogden, T., & Dawood, N. (2012). BIM and 4D planning: a holistic study of the barriers and drivers to widespread adoption. Journal of Construction Engineering and Project Management. 2. 10.6106/JCEPM.2012.2.4.001.

Koenigshberger, O. H., Ingersoll, T. G., Mayhew, A., & Szokolay, S. V. (2010). *Manual of Tropical Housing and Building: Climatic Design*. Universities Press.

Kültür, S.; Türkeri, N.; Knaack, U. (2019) A Holistic Decision Support Tool for Facade Design. Buildings, 9, 186.

Kumar, G. & Raheja, G. (2016). Design Determinants of Building Envelope for Sustainable Built Environment: A Review. International Journal of Built Environment and Sustainability. 3. 10.11113/ijbes.v3.n2.127.

Kusumawati, M. L. & Setyowati, E. & Purnomo, A. (2021). Practical-Empirical Modeling on Envelope Design towards Sustainability in Tropical Architecture. Sustainability. 13. 2959. 10.3390/su13052959.

Latifah, N., & Rahadian, E. (2020). Energy Saving Building Strategies through The Application of Solar Control Glass. ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika, 8(2), 388. doi:https://doi.org/10.26760/elkomika.v8i2.388

Lartigue, B. & Lasternas, B. & Loftness, V. (2014). Multi-objective optimization of building envelope for energy consumption and daylight. Indoor and Built Environment. 23. 70-80. 10.1177/1420326X13480224.

Liebich, T. (2002). Standard analysis — Current AEC situation — Building Models, European network for product and project data exchange, e-work and e-business in Architecture, Engineering and Construction, IST — 2001–32035, January 2002.

Lim, Y.-W., Seghier, T. E., Harun, M. F., Ahmad, M. H., Samah, A. A., & Majid, H. A. (2019). Computational BIM for building envelope sustainability optimization. *MATEC Web of Conferences*, *278*, 04001. https://doi.org/10.1051/matecconf/201927804001

Loekita, S., & Priatman, J. (2015). OTTV (SNI 03-6389-2011) and ETTV (BCA 2008) Calculation for Various Building's Shapes, Orientations, Envelope Building Materials: Comparison and Analysis. *Civil Engineering Dimension*, *17*(2), 108-116. https://doi.org/10.9744/ced.17.2.108-116

M.C. Lee, K.W. Mui, L.T. Wong, W.Y. Chan, E.W.M. Lee, C.T. Cheung, (2011). Student learning performance and indoor environmental quality (IEQ) in air-conditioned university teaching rooms, Build. Environ. 49. 238–244. doi:10.1016/j.buildenv.2011.10.001.

McCluney, R. (1991) The Death of the Shading Coefficient? ASHRAE J. 33, 36–45

Mirrahimi, S., Mohamed, M. F., Haw, L. C., Ibrahim, N. L., Yusoff, W. F., & Aflaki, A. (2016). The effect of building envelope on the thermal comfort and energy saving for high-rise buildings in hot–humid climate. *Renewable and Sustainable Energy Reviews, 53*, 1508–1519. https://doi.org/10.1016/j.rser.2015.09.055

Mwasha, A., Williams, R., Iwaro, J., (2011), "Modeling the performance of residential building envelope; The role of sustainable energy performance indicators", Energy Buildings 43, hal.2108–2117

Mushtaha, E., Salameh, T., Kharrufa, S., Mori, T., Aldawoud, A., Hamad, R., & Nemer, T. (2021). The impact of passive design strategies on cooling loads of buildings in temperate climate. *Case Studies in Thermal Engineering, 28*, 101588. https://doi.org/10.1016/j.csite.2021.101588

Nadiar, F. & Nusantara, D. (2021). Shady residency: Passive technologies through shading devices for some building styles to fix heat problem causes by climate change in a tropical area. IOP Conference Series: Materials Science and Engineering. 1098. 022029. 10.1088/1757-899X/1098/2/022029.

Nicał, A., & Wodyński, W. (2016). Enhancing Facility Management through BIM 6D. Procedia Engineering. 164. 299-306. 10.1016/j.proeng.2016.11.623.

Nico, M.A., Liuzzi, S., Stefanizzi, P., (2015). Evaluation of thermal comfort in university classrooms through objective approach and subjective preference analysis, Appl. Ergon. 48 111–120. doi:10.1016/j.apergo.2014.11.013

Octarino, C. N., & Feriadi, H. (2021). Evaluasi Kinerja Selubung Bangunan Gedung Agape Universitas Kristen Duta Wacana Yogyakarta. Langkau Betang: Jurnal Arsitektur, 8(2), 86. Doi:10.26418/Lantang.V8i2.45436

Oral, G. K, Yener, A. K, and Bayazit, N. T. (2004). Building Envelope Design with the Objective to Ensure Thermal, Visual and Acoustic Comfort Conditions. Building and Environment, 39: 281 – 287.

Pacevič, R. & Kačeniauskas, A. (2017). The Development Of Visit Visualization Service In Openstack Cloud Infrastructure. Advances In Engineering Software. Volume 103. Pages 46-56. ISSN 0965-9978. doi.org/10.1016/j.advengsoft.2016.06.01

Paryudi, I., Fenz, S., & Tjoa, A.M. (2013). Study on Indonesian Overall Thermal Transfer Value (OTTV) Standard.

Pathirana, S., Rodrigo, A & Halwatura, R. (2019). Effect of building shape, orientation, window to wall ratios and zones on energy efficiency and thermal comfort of naturally ventilated houses in tropical climate. International Journal of Energy and Environmental Engineering. 10. 10.1007/s40095-018-0295-3.

Piaseckienė, G. (2022). Dimensions of BIM in literature: review and analysis. Mokslas – Lietuvos Ateitis / Science – Future of Lithuania, 14. https://doi.org/10.3846/mla.2022.16071

Pokorska-Silva, I & Nowoświat, A & Fedorowicz, L. (2019). Identification of thermal parameters of a building envelope based on the cooling process of a building object. Journal of Building Physics. 43. 174425911988116. 10.1177/1744259119881167.

Prasetio, H. & Euodia, K. & Purwanto, W. (2019). Techno-economic analysis of a combined cooling, heating and power sistem based on hot sedimentary aquifer for hotel building in tropical countries. MATEC Web of Conferences. 268. 06006. 10.1051/matecconf/201926806006.

Sani, A. & Matondang, A. & Kurniawan, G. & Mardiyanto, A. (2019). Kinerja Termal Selubung Gedung Kuliah Kota Bandar Lampung ITERA. Jurnal Arsitektur ARCADE. 3. 267. 10.31848/Arcade.V3i3.303.

Sari, L. H., & Era N. R. (2021). "An Evaluation of Shading Device in Tropics Utilising the Sun-Path Diagram". ARTEKS : Jurnal Teknik Arsitektur 6 (3), 373-82. https://doi.org/10.30822/arteks.v6i3.877.

Sattineni, A., & Macdonald, J. (2014). 5D BIM: A Case Study of an Implementation Strategy in the Construction Industry. 10.22260/ISARC2014/0048.

Seghier, Taki & Lim, Yaik-Wah & Ahmad, Mohd & Williams, Opeyemi. (2017). Building Envelope Thermal Performance Assessment Using Visual Programming and BIM, based on ETTV requirement of Green Mark and GreenRE. International Journal of Built Environment and Sustainability. 4. 10.11113/ijbes.v4.n3.216.

Sidebotham, G. (2015). Heat Transfer Modes: Conduction, Convection, and Radiation. 10.1007/978-3-319-14514-3_3.

Singhpoo, C., Punnucharoenwong, N., & Benjapiyaporn, C. (2015). Study of the effect of temperature differences on the overall thermal transfer value of buildings. *Energy Procedia*, *79*, 348–353. https://doi.org/10.1016/j.egypro.2015.11.501

Smith, P. (2016). Project Cost Management with 5D BIM. Procedia - Social and Behavioral Sciences. 226. 193-200. 10.1016/j.sbspro.2016.06.179.

Soegijanto. (1999). Bangunan di Indonesia dengan Iklim Tropis Lembab Ditijnjau dari Aspek Fisika Bangunan. Jakarta: Direktorat Jenderal Pendidikan Tinggi Departemen Pendidikan dan Kebudayaan.

Thomas, R, (2002). Environmental Design – An Introduction for Architects and Engineers. Third Edition, Taylor & Francis group, New York.

Tong, S., Wen, J., Wong, N. H., & Tan, E. (2021). Impact of façade design on indoor air temperatures and cooling loads in residential buildings in the tropical climate. *Energy and Buildings, 243*, 110972. doi:10.1016/j.enbuild.2021.110972

U.S. Department of Energy. (2004). *Energy Design Guidelines for High Performance School: Tropical Island Climates.*

Viana, V.L.B.; Carvalho, M.T.M. (2021). Prioritization of risks related to BIM implementation in brazilian public agencies using fuzzy logic. *J. Build. Eng.*

Všį Skaitmeninė Statyba. (2017). BIM terminų žodyno santrauka. BIM dokumentai. https://skaitmeninestatyba.lt/dokumentai/

Wang, Z. & Liu, J. (2020). A Seven-Dimensional Building Information Model for the Improvement of Construction Efficiency, Advances in Civil Engineering, vol. 2020, Article ID 8842475, 17 pages, 2020. https://doi.org/10.1155/2020/8842475

Wang, L. & Nyuk, H. W. & Li, S. (2007). Facade design optimization for naturally ventilated residential buildings in Singapore. Energy and Buildings. Volume 39 Issue 8. Pages 954-961. https://doi.org/10.1016/j.enbuild.2006.10.011.

Wang, J. C. (2016). A study on the energy performance of school buildings in Taiwan. *Energy and Buildings 133*, 810-822.

Widhayaka, S. & Rilatupa, J. (2021). Optimalisasi Kinerja Termal Selubung Bangunan Unit Hunian Di Rusunawa Cibesut Jakarta Timur. Modul. 21. 43-50. 10.14710/Mdl.21.1.2021.43-50.

Zahiri, S & Altan, H. (2016). The Effect of Passive Design Strategies on Thermal Performance of Female Secondary School Buildings during Warm Season in a Hot and Dry Climate. Frontiers in Built Environment. 2. 10.3389/fbuil.2016.00003.

Zhang, Y., Long, E., Li, Y., & Li, P. (2017). Solar radiation reflective coating material on building envelopes: Heat transfer analysis and cooling energy saving. *Energy Exploration & Exploitation*, *35*(6), 748–766. https://doi.org/10.1177/0144598717716285