

DAFTAR PUSTAKA

- Akbulut, Z. F., Yavuz, D., Tawfik, T. A., Smarzewski, P., & Guler, S. (2024). Enhancing Concrete Performance through Sustainable Utilization of Class-C and Class-F Fly Ash: A Comprehensive Review. *Sustainability (Switzerland)*, 16(12). <https://doi.org/10.3390/su16124905>
- bs en 12390-8.pdf. (n.d.).
- BSNI. (2011). SNI 1974-2011 Cara Uji Kuat Tekan Beton dengan Benda Uji Silinder. *Badan Standardisasi Nasional Indonesia*, 20.
- Freitas, A. P. (2025). Analysis of the Behavior of Steel-Concrete Composite Structures against Dynamic Loads in Multi-Storey Buildings. *International Journal for Science Review*, 2(5), 302–310. <https://doi.org/10.71364/ijfsr.v2i5.37>
- Jo, C., & Pekerjaan, I. (2023). *Informasi pekerjaan*.
- Li, X., Xu, Q., & Chen, S. (2016). An experimental and numerical study on water permeability of concrete. *Construction and Building Materials*, 105, 503–510. <https://doi.org/10.1016/j.conbuildmat.2015.12.184>
- Ma, H., & Chi, F. (2016). Technical Progress on Researches for the Safety of High Concrete-Faced Rockfill Dams. *Engineering*, 2(3), 332–339. <https://doi.org/10.1016/J.ENG.2016.03.010>
- Mohsen, M., Aburumman, M., Diseet, M., Abdel-jaber, M., Taha, R., Senouci, A., & Taqa, A. A. (2023). Concrete Permeability and Mechanical Properties. *Buildings*, 13(1927).
- Nematollahzade, M., Tajadini, A., Afshoon, I., & Aslani, F. (2020). Influence of different curing conditions and water to cement ratio on properties of self-compacting concretes. *Construction and Building Materials*, 237, 117570. <https://doi.org/10.1016/j.conbuildmat.2019.117570>
- Norm, D. (1991). *DIN 1048 Part 5: Water Permeability Test* (Number 0108).
- Obayes, O., Gad, E., Pokharel, T., Lee, J., & Abdouka, K. (2020). Evaluation of Concrete Material Properties at Early Age. *CivilEng*, 1(3), 326–350. <https://doi.org/10.3390/civileng1030021>
- Ohwofasa, J. O., Ikumapayi, C. M., & Arum, C. (2023). Effects of Fly Ash on Compressive Strength and Durability Properties of Lean Concrete. *Journal of Applied Sciences and Environmental Management*, 27(11), 2597–2610. <https://doi.org/10.4314/jasem.v27i11.32>
- SNI-2493. (2011). SNI 2493:2011 Tata Cara Pembuatan dan Perawatan Benda Uji Beton di Laboratorium. *Badan Standar Nasional Indonesia*, 23.
- Wang, L., Zhou, S., Shi, Y., Huang, Y., Zhao, F., Huo, T., & Tang, S. (2022). The Influence of Fly Ash Dosages on the Permeability, Pore Structure and Fractal

Features of Face Slab Concrete. *Fractal and Fractional*, 6(9).
<https://doi.org/10.3390/fractalfract6090476>

Wei, H., Sun, Y., Li, C., He, Y., Lu, H., & Tang, L. (2026). Unveiling the Degradation Mechanism of Impermeability and Pore Structure in Concrete Under Long-Term Water Exposure. *Materials*, 19(3), 1–17.
<https://doi.org/10.3390/ma19030496>

Wu, H., Lv, C., Xu, Y., Sun, Y., Qu, S., & Zhou, X. (2025). Deterioration of Concrete Under the Combined Action of Sulfate Attack and Freeze–Thaw Cycles: A Review. *Materials*, 18(18), 1–27.
<https://doi.org/10.3390/ma18184309>

Zhang, Z. (2023). Review on the Role of Ultra-fine Fly Ash on the Performance of Concrete. *Journal of Engineering Research and Reports*, 25(7), 94–100.
<https://doi.org/10.9734/jerr/2023/v25i7942>

