## DAFTAR PUSTAKA

Aboutaleb, D., Safi, B., Chahour, K., Belaid, A., 2017. Use of refractory bricks as sand replacement in self-compacting mortar. http://www.editorialmanager.com/cogenteng 4. https://doi.org/10.1080/23311916.2017.1360235

Agency, I.E., Programme, U.N.E., 2018. 2018 Global Status Report: Towards a Zero-emission, Efficient and Resilient Buildings and Construction Sector. Global Status Report 325.

Akinyele, J.O., Igba, U.T., Ayorinde, T.O., Jimoh, P.O., 2020. Structural efficiency of burnt clay bricks containing waste crushed glass and polypropylene granules. Case Studies in Construction Materials 13, e00404. https://doi.org/10.1016/J.CSCM.2020.E00404

Aragoncillo, A.M.M., Cleary, D.B., Lomboy, G.R., 2023. Estimating the permeability of porous aggregate concretes using electrical resistivity based tests. Constr Build Mater 364, 129909. https://doi.org/10.1016/J.CONBUILDMAT.2022.129909

Cao, F., Miao, M., Yan, P., 2018. Hydration characteristics and expansive mechanism of MgO expansive agents. Constr Build Mater 183, 234–242. https://doi.org/10.1016/J.CONBUILDMAT.2018.06.164

Caronge, M.A., Tjaronge, M.W., Hamada, H., Irmawaty, R., 2017. Effect of water curing duration on strength behaviour of portland composite cement (PCC) mortar. IOP Conf Ser Mater Sci Eng 271, 012018. https://doi.org/10.1088/1757-899X/271/1/012018

Caronge, M.A., Tjaronge, M.W., Rahim, I.R., Irmawaty, R., Lapian, F.E.P., 2022. Feasibility study on the use of processed waste tea ash as cement replacement for sustainable concrete production. Journal of Building Engineering 52, 104458. https://doi.org/10.1016/J.JOBE.2022.104458

Contreras-Llanes, M., Romero, M., Gázquez, M.J., Bolívar, J.P., 2021. Recycled Aggregates from Construction and Demolition Waste in the Manufacture of Urban Pavements. Materials 2021, Vol. 14, Page 6605 14, 6605. https://doi.org/10.3390/MA14216605

Da Silva, F.M., Gachet Barbosa, L.A., Lintz, R.C.C., Jacintho, A.E.P.G.A., 2015. Investigation on the properties of concrete tactile PBs made with recycled tire rubber. Constr Build Mater 91, 71–79. https://doi.org/10.1016/J.CONBUILDMAT.2015.05.027

Dang, J., Xiao, J., Duan, Z., 2022. Effect of pore structure and morphological characteristics of recycled fine aggregates from clay bricks on mechanical properties

of concrete. Constr Build Mater 358, 129455. https://doi.org/10.1016/J.CONBUILDMAT.2022.129455

Dang, J., Zhao, J., 2019. Influence of waste clay bricks as fine aggregate on the mechanical and microstructural properties of concrete. Constr Build Mater 228, 116757. https://doi.org/10.1016/J.CONBUILDMAT.2019.116757

Das, S., Patra, R.K., Mukharjee, B.B., 2021. Feasibility study of utilisation of ferrochrome slag as fine aggregate and rice husk ash as cement replacement for developing sustainable concrete. Innovative Infrastructure Solutions 6. https://doi.org/10.1007/S41062-021-00461-9

Datta, S.D., Sobuz, M.H.R., Akid, A.S.M., Islam, S., 2022. Influence of coarse aggregate size and content on the properties of recycled aggregate concrete using non-destructive testing methods. Journal of Building Engineering 61, 105249. https://doi.org/10.1016/J.JOBE.2022.105249

Dhal, B., Thatoi, H.N., Das, N.N., Pandey, B.D., 2013. Chemical and microbial remediation of hexavalent chromium from contaminated soil and mining/metallurgical solid waste: A review. J Hazard Mater 250–251, 272–291. https://doi.org/10.1016/J.JHAZMAT.2013.01.048

Djamaluddin, A.R., Caronge, M.A., Tjaronge, M.W., Lando, A.T., Irmawaty, R., 2020. Evaluation of sustainable concrete PBs incorporating processed waste tea ash. Case Studies in Construction Materials 12, e00325. https://doi.org/10.1016/J.CSCM.2019.E00325

Djamaluddin, A.R., Caronge, M.A., Tjaronge, M.W., Rahim, I.R., Noor, N.M., 2018. Abrasion resistance and compressive strength of unprocessed rice husk ash concrete. Asian Journal of Civil Engineering 19, 867–876. https://doi.org/10.1007/S42107-018-0069-5/METRICS

Enhanced Reader [WWW Document], n.d. URL (accessed 4.6.24).

Farooq, M.U., Hameed, R., Tahir, M., Sohail, M.G., Shahzad, S., 2023. Mechanical and durability performance of 100% recycled aggregate concrete pavers made by compression casting. Journal of Building Engineering 73, 106729. https://doi.org/10.1016/J.JOBE.2023.106729

Fernando, P.-T., João, C.-G., Said, J., 2010. Durability and Environmental Performance of Alkali-Activated Tungsten Mine Waste Mud Mortars. Journal of Materials in Civil Engineering 22, 897–904. https://doi.org/10.1061/(ASCE)MT.1943-5533.0000092

Filho, J.N.S., Silva, S.N. Da, Silva, G.C., Mendes, J.C., Peixoto, R.A.F., 2017. Technical and Environmental Feasibility of Interlocking Concrete Pavers with Iron Ore Tailings

from Tailings Dams. Journal of Materials in Civil Engineering 29, 04017104. https://doi.org/10.1061/(ASCE)MT.1943-5533.0001937

George, E.S., Hari, R., Madhavan, M.K., 2024. Performance Assessment of Blended Self-Compacting Concrete with Ferrochrome Slag as Fine Aggregate using Functional ANOVA. Journal of Building Engineering 109390. https://doi.org/10.1016/J.JOBE.2024.109390

González Henao, S., Ghneim-Herrera, T., 2021. Heavy Metals in Soils and the Remediation Potential of Bacteria Associated With the Plant Microbiome. Front Environ Sci 9, 604216. https://doi.org/10.3389/FENVS.2021.604216/BIBTEX

Hchemi, S., Khattab, M., Benzetta, H., 2022. The effects of recycled brick and water/cement ratios on the physical and mechanical performance of recycled aggregates concrete. Innovative Infrastructure Solutions 7, 1–14. https://doi.org/10.1007/S41062-022-00868-Y/METRICS

Hengl, H.L., Füssl, J., 2016. The influence of superelevated profiles of PB structures on their load-bearing behavior. Eng Struct 117, 195–203. https://doi.org/10.1016/J.ENGSTRUCT.2016.03.003

Hong, G., Oh, S., Choi, S., Chin, W.J., Kim, Y.J., Song, C., 2021. Correlation between the Compressive Strength and Ultrasonic Pulse Velocity of Cement Mortars Blended with Silica Fume: An Analysis of Microstructure and Hydration Kinetics. Materials 2021, Vol. 14, Page 2476 14, 2476. https://doi.org/10.3390/MA14102476

Horckmans, L., Nielsen, P., Dierckx, P., Ducastel, A., 2019. Recycling of refractory bricks used in basic steelmaking: A review. Resour Conserv Recycl 140, 297–304. https://doi.org/10.1016/J.RESCONREC.2018.09.025

Huynh, T.P., Ho, L.S., Ho, Q. Van, 2022. Experimental investigation on the performance of concrete incorporating fine dune sand and ground granulated blast-furnace slag. Constr Build Mater 347, 128512. https://doi.org/10.1016/J.CONBUILDMAT.2022.128512

Irmawaty, R., Caronge, M.A., Tjaronge, M.W., Abdurrahman, M.A., Ahmad, S.B., 2023. Compressive strength and corrosion behavior of steel bars embedded in concrete produced with ferronickel slag aggregate and fly ash: an experimental study. Innovative Infrastructure Solutions 8, 1–15. https://doi.org/10.1007/S41062-023-01162-1/METRICS

Jankovic, K., Nikolic, D., Bojovic, D., 2012. Concrete PBs and flags made with crushed brick as aggregate. Constr Build Mater 28, 659–663. https://doi.org/10.1016/J.CONBUILDMAT.2011.10.036

Jureje, U., Tjaronge, M.W., Caronge, M.A., 2024. Basic Engineering Properties of Concrete with Refractory Brick as Coarse Aggregate: Compressive Stress-Time Relationship Assessment. International Journal of Engineering 37, 931–940. https://doi.org/10.5829/IJE.2024.37.05B.11

Klak, F.S., Saleh, H., Tais, A.S., 2023. Recycling of crushed clay bricks as fine aggregate in concrete and cement mortar. Australian Journal of Structural Engineering 24, 67–76. https://doi.org/10.1080/13287982.2022.2098600

Koksal, F., Gencel, O., Sahin, Y., Okur, O., 2021. Recycling bottom ash in production of eco-friendly interlocking concrete PBs. J Mater Cycles Waste Manag 23, 985–1001. https://doi.org/10.1007/S10163-021-01186-8/METRICS

Kuenzel, C., Zhang, F., Ferrándiz-Mas, V., Cheeseman, C.R., Gartner, E.M., 2018. The mechanism of hydration of MgO-hydromagnesite blends. Cem Concr Res 103, 123–129. https://doi.org/10.1016/J.CEMCONRES.2017.10.003

Kumar, A., Kumar, R., Das, V., Jhatial, A.A., Ali, T.H., 2021. Assessing the structural efficiency and durability of burnt clay bricks incorporating fly ash and silica fume as additives. Constr Build Mater 310, 125233. https://doi.org/10.1016/J.CONBUILDMAT.2021.125233

Ma, D., Zhang, M., Cui, J., 2023. A review on the deterioration of mechanical and durability performance of marine-concrete under the scouring action. Journal of Building Engineering 66, 105924. https://doi.org/10.1016/J.JOBE.2023.105924

Majer, J.D., Delabie, J.H.C., McKenzie, N.L., 2021. The use of recycled aggregate from waste refractory brick for the future of sustainable concrete. Insectes Soc 1, 255–266. https://doi.org/10.1007/s000400050046

Mendoza, J.M.F., Oliver-Solà, J., Gabarrell, X., Rieradevall, J., Josa, A., 2012. Planning strategies for promoting environmentally suitable pedestrian pavements in cities. Transp Res D Transp Environ 17, 442–450. https://doi.org/10.1016/J.TRD.2012.05.008

Meng, T., Lai, Z., Yang, X., Dai, D., Jia, Y., Yu, H., 2024. An approach to effectively improve the properties of recycled concrete aggregate and recycled brick aggregate by micro-nano particle reconstruction. Constr Build Mater 421, 135669. https://doi.org/10.1016/J.CONBUILDMAT.2024.135669

Meng, Y., Ling, T.C., Mo, K.H., 2018. Recycling of wastes for value-added applications in concrete blocks: An overview. Resour Conserv Recycl 138, 298–312. https://doi.org/10.1016/J.RESCONREC.2018.07.029

Mo, L., Liu, M., Al-Tabbaa, A., Deng, M., 2015. Deformation and mechanical properties of the expansive cements produced by inter-grinding cement clinker and MgOs with

various reactivities. Constr Build Mater 80, 1–8. https://doi.org/10.1016/J.CONBUILDMAT.2015.01.066

Muhiddin, A.B., Tjaronge, M.W., Caronge, M.A., Khalid, N.H.A., 2024. Reliability assessment of carbon fiber mortar: Combined pulse velocity, point load, and compressive strength tests. Results in Engineering 21, 101735. https://doi.org/10.1016/J.RINENG.2023.101735

Nandi, S., Ransinchung, G.D.R.N., 2021. Performance evaluation and sustainability assessment of precast concrete paver blocks containing coarse and fine RAP fractions: A comprehensive comparative study. Constr Build Mater 300, 124042. https://doi.org/10.1016/J.CONBUILDMAT.2021.124042

Nematzadeh, M., Baradaran-Nasiri, A., 2017. Residual Properties of Concrete Containing Recycled Refractory Brick Aggregate at Elevated Temperatures. Journal of Materials in Civil Engineering 30, 04017255. https://doi.org/10.1061/(ASCE)MT.1943-5533.0002125

Nili, M., Ehsani, A., 2015. Investigating the effect of the cement paste and transition zone on strength development of concrete containing nanosilica and silica fume. Mater Des 75, 174–183. https://doi.org/10.1016/J.MATDES.2015.03.024

Penteado, C.S.G., Viviani De Carvalho, E., Lintz, R.C.C., 2016. Reusing ceramic tile polishing waste in PB manufacturing. J Clean Prod 112, 514–520. https://doi.org/10.1016/J.JCLEPRO.2015.06.142

Rethinavelsamy, B.M., Chidambarathanu, N., 2016. Investigation on precast concrete paver block with waste tyre crumb rubber. Road Materials and Pavement Design 17, 719–736. https://doi.org/10.1080/14680629.2015.1119056

Saluja, S., Somani, P., Gaur, A., Mundra, S., Ahmad, K., 2024. Stabilized municipal solid waste as an alternative to natural sand in paver block construction. Process Safety and Environmental Protection 182, 1035–1046. https://doi.org/10.1016/J.PSEP.2023.12.032

Silva, W.B.C., Barroso, S.H.A., Cabral, A.E.B., Stefanutti, R., Picado-Santos, L.G., 2023. Assessment of concrete road PBs with coal bottom ash: Physical and mechanical characterization. Case Studies in Construction Materials 18, e02094. https://doi.org/10.1016/J.CSCM.2023.E02094

Sormunen, P., Kärki, T., 2019. Recycled construction and demolition waste as a possible source of materials for composite manufacturing. Journal of Building Engineering 24, 100742. https://doi.org/10.1016/J.JOBE.2019.100742

Soutsos, M.N., Tang, K., Millard, S.G., 2011. Use of recycled demolition aggregate in precast products, phase II: Concrete PBs. Constr Build Mater 25, 3131–3143. https://doi.org/10.1016/J.CONBUILDMAT.2010.12.024

Su, T., Wang, T., Zhang, Z., Sun, X., Gong, S., Mei, X., Tan, Z., Cui, S., 2023. Mechanical properties and frost resistance of recycled brick aggregate concrete modified by nano-SiO2. Nanotechnol Rev 12. https://doi.org/10.1515/NTREV-2023-0576/MACHINEREADABLECITATION/RIS

Viranthy Dian Pertiwi, A., Caronge, M.A., Tjaronge, M.W., 2024. Producing Eco-Friendly Concrete PB Using Waste Refractory Brick Aggregates. International Journal of Pavement Research and Technology 1–13. https://doi.org/10.1007/S42947-024-00425-Z/METRICS

Wang, L., Li, G., Li, X., Guo, F., Tang, S., Lu, X., Hanif, A., 2022a. Influence of reactivity and dosage of MgO expansive agent on shrinkage and crack resistance of face slab concrete. Cem Concr Compos 126, 104333. https://doi.org/10.1016/J.CEMCONCOMP.2021.104333

Wang, L., Lu, X., Liu, L., Xiao, J., Zhang, G., Guo, F., Li, L., 2022b. Influence of MgO on the Hydration and Shrinkage Behavior of Low Heat Portland Cement-Based Materials via Pore Structural and Fractal Analysis. Fractal and Fractional 2022, Vol. 6, Page 40 6, 40. https://doi.org/10.3390/FRACTALFRACT6010040

Wang, X., Li, X., Lian, L., Jia, X., Qian, J., 2023. Recycling of waste magnesia refractory brick powder in preparing magnesium phosphate cement mortar: Hydration activity, mechanical properties and long-term performance. Constr Build Mater 402, 133019. https://doi.org/10.1016/J.CONBUILDMAT.2023.133019

Wongkeo, W., Thongsanitgarn, P., Pimraksa, K., Chaipanich, A., 2012. Compressive strength, flexural strength and thermal conductivity of autoclaved concrete block made using bottom ash as cement replacement materials. Mater Des 35, 434–439. https://doi.org/10.1016/J.MATDES.2011.08.046

Xiao, H., Li, Y., Wang, M., Yan, D., Liu, Z., 2021. The migration and transformation of chromium during co-processing of cement raw meal mixed with chrome-polluted soil. Environ Technol Innov 24, 101971. https://doi.org/10.1016/J.ETI.2021.101971

Xiao, S., Cheng, H., Que, Z., Liu, T., Zou, D., 2024. Enhancing marine anti-washout concrete: Optimal silica fume usage for improved compressive strength and abrasion resistance. Constr Build Mater 428, 136262. https://doi.org/10.1016/J.CONBUILDMAT.2024.136262

Xue, K., Han, J., Jiao, F., Liu, W., Qin, W., Cai, L., Xu, T., 2018. Comprehensive utilization of spent magnesia-chrome refractories with gravity separation followed by flotation. Miner Eng 127, 125–133. https://doi.org/10.1016/J.MINENG.2018.08.010

Xue, X., Zheng, X., Guan, B., Liu, J., Ding, D., Xiong, R., Zhao, H., Wei, F., 2022. Long-term skid resistance of high-friction surface treatment of pavement using high-alumina refractory waste. Constr Build Mater 351, 128961. https://doi.org/10.1016/J.CONBUILDMAT.2022.128961

Yeo, J.S., Koting, S., Onn, C.C., Radwan, M.K.H., Cheah, C.B., Mo, K.H., 2023. Optimisation and environmental impact analysis of green dry mix mortar PB incorporating high volume recycled waste glass and ground granulated blast furnace slag. Environmental Science and Pollution Research 30, 58493–58515. https://doi.org/10.1007/S11356-023-26496-2/METRICS

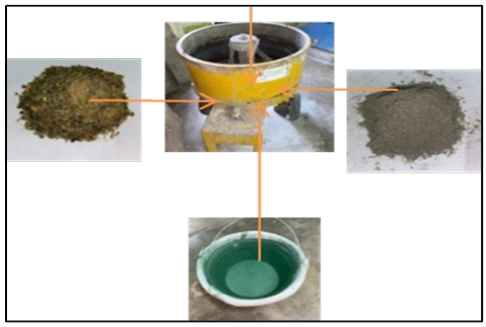
Zeghad, M., Mitterpach, J., Safi, B., Amrane, B., Saidi, M., 2017. Reuse of Refractory Brick Wastes (RBW) as a Supplementary Cementitious Material in a Concrete. Periodica Polytechnica Civil Engineering 61, 75–80. https://doi.org/10.3311/PPCI.8194

Zhao, Y., Gao, J., Chen, F., Liu, C., Chen, X., 2018. Utilization of waste clay bricks as coarse and fine aggregates for the preparation of lightweight aggregate concrete. J Clean Prod 201, 706–715. https://doi.org/10.1016/J.JCLEPRO.2018.08.103

# LAMPIRAN

| | | |
|---|---|---|
| | Universitas Hasanuddin | Nama : Muh Risal |
| | Program Studi Magister Teknik Sipil | NIM : D012221005 |
| LAMPIRAN | | Tgl Percobaan : Maret 2023 |

**PERSIAPAN MATERIAL**

# LAMPIRAN

| | | |
|---|---|---|
| | Universitas Hasanuddin | Nama : Muh Risal |
| | Program Studi Magister Teknik Sipil | NIM : D012221005 |
| LAMPIRAN | | Tgl Percobaan : Maret 2023 |

**PENGUJIAN**