DAFTAR PUSTAKA

AbdelSalam, S.S., Anwar, M.B., dan Eskander, S.S., 2019. Long Term Behavior of EPS Geofoam for Road Embankments. *Dalam*: M. Meguid, E. Guler, dan J.P. Giroud, ed. *Advances in Geosynthetics Engineering*. Cham: Springer International Publishing, 97–107.

Alam, S., 2021. Soil Structure Interaction Using Silt Clay by Direct Shear Test: A Review Paper. *American Journal of Mechanical and Industrial Engineering*, 6 (3), 34.

American Society for Testing and Material, 2021. Specification for Rigid Cellular Polystyrene Geofoam.

Anfifa, F., Rifa'i, A., dan Ismanti, S., 2023. Analisis Stabilitas Timbunan Menggunakan Expanded Polystyrene (EPS) Geofoam Sebagai Material Pengisi Di Atas Tanah Lunak.

Aslam, Z. dan Gofar, N., 2022. The Effect of Soil Stabilization and Reinforcement on The Stability of Embankment on Soft Soil. *Jurnal Teknik Sipil*, 18 (2), 356–367.

Atmatzidis, D.K., Missirlis, E.G., dan Theodorakopoulos, E.B., 2001. Shear Resistance on EPS Geofoam Block Surfaces.

Azzam, W., Ayeldeen, M., dan El Siragy, M., 2018. Improving the structural stability during earthquakes using in-filled trench with EPS geofoam—numerical study. *Arabian Journal of Geosciences*, 11 (14), 395.

Badan Standarisasi Nasional, 2016. Standar Nasional Indonesia: Metode uji kuat geser langsung tanah tidak terkonsolidasi dan tidak terdrainase.

Barrett, J.C. dan Valsangkar, A.J., 2009. Effectiveness of connectors in geofoam block construction. *Geotextiles and Geomembranes*, 27 (3), 211–216.

Beban desain minimum dan kriteria terkait untuk bangunan gedung dan struktur lain, 2020.

Beju, Y. dan Mandal, J., 2018. Evaluation of the shear strength properties of expanded polystyrene geofoam using direct shear test. Dipresentasikan pada The 11th International Conference on Geosynthetics, Seoul, Korea.

Bentley, I., 2024. PLAXIS 2D Reference Manual (Version 2024.3).

Burugupelly, N.K. dan Dasaka, S.M., 2022. Effect of EPS Geofoam on Lateral Earth Pressure Reduction—A Numerical Study. *Dalam*: C.N.V. Satyanarayana Reddy, A.M. Krishna, dan N. Satyam, ed. *Dynamics of Soil and Modelling of Geotechnical Problems*. Singapore: Springer Singapore, 231–241.

Chrysikos, D.A., Atmatzidis, D.K., dan Missirlis, E.G., 2006. EPS Geofoam Surface Shear Resistance. *Dalam*: *Geosynthetics*. Dipresentasikan pada The 8th International Conference on Geosynthetics, Rotterdam: Millpress.

Chu, J., Indraratna, B., Yan, S., dan Rujikiatkamjorn, C., 2012. Soft Soil Improvement Through Consolidation: An Overview. *Dalam*: *Proceedings of the International Conference on Ground Improvement & Ground Control*. Dipresentasikan pada International Conference on Ground Improvement & Ground Control, Research Publishing Services, 251–280.

D18 Committee, 2004. Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions.

D18 Committee, 2011. Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions.

Elias, V., Christopher, B.R., dan Berg, R.R., 2001. *Mechanically Stabilized Earth Walls and Reinforced Soil Slopes Design and Construction Guidelines*. National Highway Institute Federal Highway Administration U.S. Department of Transportation Washington, D.C., No. FHWA-NHI-00-043.

Elragi, A.F., 2000. Selected Engineering Properties and Applications o f EPS Geofoam. Dissertatuib. University of New York, Syracuse, New York.

Eriksson, L. dan Tränk, R., 1991. Properties of Expanded Polystyrene, Laboratory Experiments. Swedish Geotechnical Institute, Linköping, Sweden.

Gandahl, R., 1998. *Polystyrene foam as a frost protection measure on national roads in Sweden*. No. 1146.

Gue, S.S. dan Gue, C.S., 2022. Geotechnical Challenges on Soft Ground. *Journal of Civil Engineering, Science and Technology*, 13 (2), 84–96.

Holmes, J. dan Weller, R., 2002. *Design Wind Speeds for the Asia-Pacific Region*. Sydney, Australia: Standards Australia International.

Horvath, J., 1997. The compressible inclusion function of EPS geofoam. *Geotextiles and Geomembranes*, 15 (1–3), 77–120.

Horvath, J.S., 1994. Expanded Polystyrene (EPS) Geofoam: An Introduction to Material Behavior. *Geotextiles and Geomembranes*, 13 (4), 263–280.

Horvath, J.S., 1995. *Geofoam Geosynthetic*. New York, USA: Horvath Engineering.

Huang, W., Li, J., Lu, Y., Li, D., Mou, Y., Wu, X., Jiang, Z., dan Li, Z., 2021. Mechanical Properties of Soft Soil considering the Influence of Unloading Stress Paths. *Advances in Civil Engineering*, 2021, 1–9.

Indraratna, B., Rujikiatkamjorn, C., Balasubramaniam, A.S., dan McIntosh, G., 2012. Soft ground improvement via vertical drains and vacuum assisted preloading. *Geotextiles and Geomembranes*, 30, 16–23.

Jamshidi Chenari, R., Firoozfar, A., Attari, S., Izadi, A., dan Shafiei, S.E., 2017. Deformation Characteristics of Sand Geofoam Blocks using Large-Scale Oedometer Apparatus. *Civil Engineering Journal*, 3 (8), 585–593.

Kalinski, M.E. dan Pentapati, D.P., 1975. Numerical Simulation of Dynamic Behavior of Geofoam Embankment. *Transportation Research Record*.

Khan, M.I. dan Meguid, M.A., 2018. Experimental Investigation of the Shear Behavior of EPS Geofoam. *International Journal of Geosynthetics and Ground Engineering*, 4 (2), 12.

Khan, M.I. dan Meguid, M.A., 2021. A Numerical Study on the Role of EPS Geofoam in Reducing Earth Pressure on Retaining Structures Under Dynamic Loading. *International Journal of Geosynthetics and Ground Engineering*, 7 (3), 57.

Leo, C.J., Kumruzzaman, M., Wong, H., dan Yin, J.H., 2008. Behavior of EPS geofoam in true triaxial compression tests. *Geotextiles and Geomembranes*, 26 (2), 175–180.

Ling, C., Cardiff, P., dan Gilchrist, M.D., 2018. Mechanical behaviour of EPS foam under combined compression-shear loading. *Materials Today Communications*, 16, 339–352.

Maleska, T., Nowacka, J., dan Beben, D., 2019. Application of EPS Geofoam to a Soil–Steel Bridge to Reduce Seismic Excitations. *Geosciences*, 9 (10), 448.

Manual Desain Perkerasan (REVISI Juni 2017), 2017.

Meguid, M.A. dan Khan, M.I., 2019. On the role of geofoam density on the interface shear behavior of composite geosystems. *International Journal of Geo-Engineering*, 10 (1), 6.

Mesri, G. dan Ajlouni, M., 2007. Engineering Properties of Fibrous Peats. *Journal of Geotechnical and Geoenvironmental Engineering*, 133 (7), 850–866.

Mustafa, R., 2024. Numerical modeling of gravity retaining wall using EPS geofoam under seismic condition. *Asian Journal of Civil Engineering*, 25 (3), 2541–2552.

Negussey, D., Anasthas, N., dan Srirajan, S., 2001. Interface Friction Properties of EPS Geofoam. *Dalam*: *Proceedings of the EPS geofoam*. Dipresentasikan pada 3rd international conference, Salt Lake City.

Neto, J.O.A. dan Bueno, B.S., 2012. Laboratory Research on EPS Blocks Used in Geotechnical Engineering. *Soils and Rocks*, 35 (2), 169–180.

Newman, M.P., Bartlett, S.F., dan Lawton, E.C., 2010. Numerical Modeling of Geofoam Embankments. *Journal of Geotechnical and Geoenvironmental Engineering*, 136 (2), 290–298.

Özer, A.T. dan Akay, O., 2016. Interface Shear Strength Characteristics of Interlocked EPS-Block Geofoam. *Journal of Materials in Civil Engineering*, 28 (4), 04015156.

Özer, A.T. dan Ekincioğlu, Ö., 2019. Evaluation of Interface Shear Strength Between Interlocked Geofoam Blocks and Cast-in-Place Concrete. *Dalam*: D. Arellano, A.T. Özer, S.F. Bartlett, dan J. Vaslestad, ed. *5th International Conference on Geofoam Blocks in Construction Applications*. Cham: Springer International Publishing, 207–218.

P., D.I., Yan, Y., Antonio, L., J., B.R., dan Alejandro, J., 2015. Equivalent interface properties to model soil-facing interactions with zero-thickness and continuum element methodologies. *Dalam*: *From Fundamentals to Applications in Geotechnics*. IOS Press.

Padade, A.H. dan Mandal, J.N., 2012. Direct Shear Test on Expanded Polystyrene (EPS) Geofoam.

Padade, A.H. dan Mandal, J.N., 2014. Interface strength behavior of expanded polystyrene EPS geofoam. *International Journal of Geotechnical Engineering*, 8 (1), 66–71.

Pedoman Perencanaan dan Pelaksanaan Perkuatan Tanah dengan Geosintetik, 2009.

Pramanik, S., Das, A.K., dan Dey, A.K., 2021. Use of Geofoam for Road Construction over Very Soft Clay. *Dalam*: C.N.V. Satyanarayana Reddy, S. Saride, dan S. Haldar, ed. *Transportation, Water and Environmental Geotechnics*. Singapore: Springer, 189–199.

Pusat Studi Gempa Nasional, 2022. *Buku Peta Deagregasi Bahaya Gempa Indonesia untuk Perencanaan dan Evaluasi Infrastruktur Tahan Gempa*. Jakarta Selatan: Direktorat Bina Teknik Permukiman dan Perumahan Direktorat Jenderal Cipta Karya Kementerian Pekerjaan Umum dan Perumahan Rakyat.

Rahardjo, P.P., Anggoro, B.W., Wijaya, M., dan Seourin, D.P., 2023. EPS-Geofoam as Lightweight material for Replacement of Embankment Fill to Overcome Landslide Problems at STA 40+200 of Cisumdawu Toll Road, West Java. *IOP Conference Series: Earth and Environmental Science*, 1249 (1), 012001.

Rosli, N., Saad, R., Rahman, N., dan Ismail, N.A., 2020. Soft soils: A study on their electrical resistivity values and geotechnical properties (porosity, SPT and particle size distribution). *Warta Geologi*, 46 (3), 186–190.

Sheeley, M. dan Negussey, D., 2001. An Investigation of Geofoam Interface Strength Behavior. *Dalam*: *Soft Ground Technology*. Dipresentasikan pada Soft Ground Technology Conference, Noordwijkerhout, the Netherlands: American Society of Civil Engineers, 292–303.

Spesifikasi Khusus Interim Expanded Polystyrene (EPS) Geofoam, 2023.

Srivastava, D.K., Srivastava, A., Misra, A.K., dan Sahu, V., 2019. Sustainability assessment of EPS-geofoam in road construction: a case study. *International Journal of Sustainable Engineering*, 12 (5), 341–348.

Standar Nasional Indonesia 8460:2017 Persyaratan perancangan geoteknik, 2017.

Stark, T.D., Arellano, D., Horvath, J.S., dan Lehchinsky, D., 2004. *NCHRP REPORT 529 Guideline and Recommended Standard for Geofoam Applications in Highway Embankments*. Washington, D.C.: Transportation Research Board.

Stark, Timothy D., Arellano, David, Horvath, John S., dan Leshchinsky, Dov, 2004. *Geofoam Applications in the Design and Construction of Highway Embankments*. Washington, D.C.: Transportation Research Board of The National Academies.

Syahril, S., Suyono, A., Muchtar, M., Hendry, H., Prajudi, R., dan Riandi, R., 2022. Perbaikan Tanah Problematik Lempung Lunak dengan Metode Stabilisasi Kimiawi Ditinjau dari

Nilai Kadar Air dan Indeks Plastisitas. *Wahana Teknik Sipil: Jurnal Pengembangan Teknik Sipil*, 27 (2), 244.

Tafreshi, S.N.M., Ghotbi Siabil, S.M.A., dan Dawson, A.R., 2020. Expanded polystyrene geofoam. *Dalam*: *New Materials in Civil Engineering*. Elsevier, 117–153.

Timothy D Stark, David Arellano, John S. Horvath, dan Dov Lehchinsky, 2004. Geofoam Applications in the Design and Construction of Highway Embankments.

Wang, P., Wang, S., Yang, T., Liu, H., dan Zhang, Z., 2022. Spatial distribution of mechanical parameters along a fracture interface. *Soil Dynamics and Earthquake Engineering*, 157, 107222.

Xenaki, V.C. dan Athanasopoulos, G.A., 2001. Experimental Investigation of the Interaction Mechanism at the EPS Geofoam-Sand Interface by Direct Shear Testing. *Geosynthetics International*, 8 (6), 471–499.

Zianal, N.F.A., Yusof, M.F., Madun, A., Pakir, F., Abu Talib, M.K., dan Abu Talib, Z., 2022. Numerical Modelling of Soft Soil Improvement Using Expanded Polystyrene Geofoam for Road Embankment. *Journal of Sustainable Underground Exploration*, 2 (1).

Zienkiewicz, O.C., Taylor, R.L., dan Zhu, J.Z., 2013. The Standard Discrete System and Origins of the Finite Element Method. *Dalam*: *The Finite Element Method: its Basis and Fundamentals*. Elsevier, 1–20.