

DAFTAR PUSTAKA

- Abuel-naga, H. and Bouazza, A., 2009. Equivalent diameter of a prefabricated vertical drain. *Geotextiles and Geomembranes*, [online] 27(3), pp.227–231. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2008.11.006>>.
- Ali, F.H., 1991. The Flow Behaviour of Deformed Prefabricated Vertical Drains. *Geotextiles and Geomembranes*, 10, pp.235–248.
- Ameratunga, J., Sivakugan, N. and Das, B.M., 2016. *Correlations of Soil and Rock Properties in Geotechnical Engineering*. [online] New Delhi: Springer. Available at: <<http://link.springer.com/10.1007/978-81-322-2629-1>>.
- ASTM, 2001. *ASTM D4716, Standard Test Method for Determining the (In-Plane) Flow Rate per Unit Width and Hydraulic Transmissivity of Geosynthetic Using A Constant Head*. West Conshohocken, PA, USA: ASTM International.
- Balasubramaniam, A.S., Cai, H., Zhu, D., Surarak, C. and Oh, E.Y.N., 2010. Settlements of Embankments in Soft Soils. *Geotechnical Engineering Journal of The SEAGS & AGSSEA*, 41(2).
- Barron, R.A., 1948. Consolidation of Fine-Grained Soils by Drain Wells. *Proceedings of the American Society of Civil Engineers*, 73(6), pp.811–836.
- Basu, D. and Madhav, M.R., 2000. Effect of PVD Clogging on the Rate of Consolidation: A Numerical study. *Geosynthetics International*, 7(3), pp.189–215.
- Bergado, D.T., Balasubramaniam, A.S., Fannin, R.J. and Holtz, R.D., 2002. Prefabricated vertical drains (PVDs) in soft Bangkok clay : a case study of the new Bangkok International Airport project. 315, pp.304–315.
- Bergado, D.T., Long, P. V and Balasubramaniam, A., 1996. Compressibility and Flow Parameters from PVD Improved Soft Bangkok Clay. (June).
- Bergado, D.T., Manivannan, R. and Balasubramaniam, A.S., 1996. Proposed criteria for discharge capacity of prefabricated vertical drains. *Geotextiles and Geomembranes*, 14(9), pp.481–505.
- Bergado, D.T., Member, A., Asakami, H., Alfaro, C. and Balasubramaniam, A.S., 1992. Smear effects of vertical drains on soft bangkok clay. 117(10), pp.1509–1530.
- Bo, M.W., 2004. Discharge capacity of prefabricated vertical drain and their field measurements. *Geotextiles and Geomembranes*, 22(1–2), pp.37–48.
- Bo, M.W., Arulrajah, A., Horpibulsuk, S., Chinkulkijniwat, A. and Leong, M., 2016. Laboratory measurements of factors affecting discharge capacity of prefabricated vertical drain materials. *Soils and Foundations*, [online] 56(1), pp.129–137. Available at: <<http://dx.doi.org/10.1016/j.sandf.2016.01.010>>.
- Carrier, W.D., 2003. Goodbye, Hazen; Hello, Kozeny-Carman. *Journal of Geotechnical and Geoenvironmental Engineering*, 129(November), pp.1054–1056.
- Cedergren, H.R., 1967. *Seepage , Drainage , and Flow Nets*. New York: John Wiley & Sons.

- Chai, B.J. and Miura, N., 1999a. Investigation of Factors Affecting Vertical Drain Behavior. *Journal of Geotechnical and Geoenvironmental Engineering*, 125(March), pp.216–226.
- Chai, B.J. and Miura, N., 1999b. Investigation of Factors Affecting Vertical Drain Behaviour. *Journal of Geotechnical and Geoenvironmental Engineering*, 125(March), pp.216–226.
- Chai, J.-C., Miura, N., Sakajo, S. and Bergado, D., 1995. Behaviour of vertical drain improved subsoil under embankment loading. *Soils and Foundations*, 35, pp.49–61.
- Chai, J. and Duy, Q.N., 2013. Geocomposite induced consolidation of clayey soils under stepwise loads. *Geotextiles and Geomembranes*, [online] 37, pp.99–108. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2013.02.006>>.
- Chai, J., Horpibulsuk, S., Shen, S. and Carter, J.P., 2014. Consolidation analysis of clayey deposits under vacuum pressure with horizontal drains. *Geotextiles and Geomembranes*, [online] 42(5), pp.437–444. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2014.07.001>>.
- Chai, J., Miura, N. and Nomura, T., 2004. Effect of hydraulic radius on long-term drainage capacity of geosynthetic drains. *Geotextiles and Geomembranes*, 22, pp.3–16.
- Chai, J.C., Shen, J.S.L., Liu, M.D. and Yuan, D.J., 2018. Predicting the performance of embankments on PVD-improved subsoils. *Computers and Geotechnics*, [online] 93, pp.222–231. Available at: <<https://doi.org/10.1016/j.compgeo.2017.05.018>>.
- Chen, J., Shen, S., Yin, Z., Xu, Y., Horpibulsuk, S., Chen, J.U.N., Shen, S., Yin, Z., Xu, Y. and Horpibulsuk, S., 2016. Evaluation of Effective Depth of PVD Improvement in Soft Clay Deposit : A Field Case Study Evaluation of Effective Depth of PVD Improvement in Soft Clay Deposit : A Field Case Study. *Marine Georesources & Geotechnology*, [online] 34(5), pp.420–430. Available at: <<http://dx.doi.org/10.1080/1064119X.2015.1016638>>.
- Chu, J., Bo, M.W. and Choa, V., 2004. Practical considerations for using vertical drains in soil improvement projects. *Geotextiles and Geomembranes*, 22(1–2), pp.101–117.
- Chung, S.G., Kweon, H.J. and Jang, W.Y., 2014. Observational method for field performance of prefabricated vertical drains. *Geotextiles and Geomembranes*, [online] 42(4), pp.405–416. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2014.06.005>>.
- Das, B.M., 2006. *Principles of Geotechnical Engineering*. 5th ed. Sacramento: Thomson.
- Das, B.M., 2008. *Advanced Soil Mechanics*. 3rd ed. New York: Taylor and Francis.
- Deng, Y., Xie, K. and Lu, M., 2013. Consolidation by vertical drains when the discharge capacity varies with depth and time. *Computers and Geotechnics*, [online] 48, pp.1–8. Available at: <<http://dx.doi.org/10.1016/j.compgeo.2012.09.012>>.
- Deng, Y., Xie, K., Lu, M., Tao, H. and Liu, G., 2013. Consolidation by prefabricated vertical drains considering the time dependent well resistance. *Geotextiles and Geomembranes*, [online] 36, pp.20–26. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2012.10.003>>.

- Deng, Y.B., Liu, G. Bin, Lu, M.M. and Xie, K. he, 2014. Consolidation behavior of soft deposits considering the variation of prefabricated vertical drain discharge capacity. *Computers and Geotechnics*, [online] 62, pp.310–316. Available at: <<http://dx.doi.org/10.1016/j.compgeo.2014.08.006>>.
- Departemen Permukiman dan Prasarana Wilayah, 2002a. *Panduan Geoteknik 1*. Jakarta: WSP International.
- Departemen Permukiman dan Prasarana Wilayah, 2002b. *Panduan Geoteknik 3*. Jakarta: WSP International.
- Fannin, R.J. and Choy, H.W., 1995. Factors influencing the long-term flow capacity of geonets. *Geosynthetics '95 Conference*, 1, pp.21–23.
- Di Filippo, G., Bandini, V., Cascone, E. and Biondi, G., 2017. Measurements and predictions of settlements induced by preloading and vertical drains on a heterogeneous soil deposit. *Measurement: Journal of the International Measurement Confederation*, 104, pp.302–315.
- Giroud, J.P., Gourc, J.P. and Kavazanjian, E., 2012. Laminar and non-laminar flow in geosynthetic and granular drains. (2), pp.160–182.
- Giroud, J.P. and Kavazanjian Jr, E., 2014. Degree of Turbulence of Flow in Geosynthetic and Granular Drains. *Geotechnique and Geoenvironmental Engineering*, 140(2), pp.1–5.
- Giroud, J.P. and Perfetti, J., 1977a. Classification des textiles et mesure de leurs propriétés en vue de leur utilisation en géotechnique. In: *Proceedings of the International Conference on the Use of Fabrics in Geotechnics*. Paris, France, pp.345–352.
- Giroud, J.P. and Perfetti, J., 1977b. Classification des textiles et mesure de leurs propriétés en vue de leur utilisation en géotechnique. In: *Proceedings of the International Conference on the Use of Fabrics in Geotechnics*. Paris, France, pp.345–352.
- Giroud, J.P., Zhao, A. and Richardson, G.N., 2001. Effect of Thickness reduction on geosynthetics hydraulic transmissivity. 7(August 2000), pp.433–452.
- Hansbo, S., 1979. Consolidation of Clay By Band-Shaped Prefabricated Drains. *Ground Engineering*, 12(5), pp.16–18, 21.
- Hansbo, S., 1997. Aspects of vertical drain design: Darcian or non-Darcian flow. *Geotechnique*, 47(5), pp.983–992.
- Hansbo, S., 2005a. Chapter 1 Experience of Consolidation Process from Test Areas with and without Vertical Drains. In: *Elsevier Geo-Engineering Book Series*. pp.3–49.
- Hansbo, S., 2005b. Ground Improvement — Case Histories. *Elsevier Geo-Engineering Book Series*, [online] 3, pp.3–49. Available at: <<http://www.sciencedirect.com/science/article/pii/S1571996005800047>>.
- Hardiyatmo, H.C., 2010. *Mekanika Tanah 1*. 5th ed. Yogyakarta: Gadjah Mada University Press.
- Hardiyatmo, H.C., 2017. *Geosintetik untuk Rekayasa Jalan Raya*. 2nd ed. Yogyakarta: Gadjah Mada University Press.
- Hird, C.C., Pyrah, I.C. and Russel, D., 1992. Finite element modelling of vertical drains beneath embankments on soft ground. *Géotechnique*, 42(3), pp.499–511.

- Holtz, R.D., 1987. Preloading with prefabricated vertical strip drains. *Geotextiles and Geomembranes*, 6(1–3), pp.109–131.
- Holtz, R.D., Christopher, B.R. and Berg, R.R., 1998. *Geosynthetic Design and Construction Guidelines*. Washington, D.C.: Federal Highway Administration.
- Holtz, R.D., Jamiolkowski, M.B., Lancellotta, R. and Pedroni, R., 1991. *Prefabricated vertical drains : design and performance*. London: CIRIA.
- Indraratna, B., Bamunawita, C., Redana, I.W. and McIntosh, G., 2003. Modelling of prefabricated vertical drains in soft clay and evaluation of their effectiveness in practice. *Ground Improvement*, 7(3), pp.127–137.
- Indraratna, B., Rujikiatkamjorn, C., Balasubramaniam, A.S. and McIntosh, G., 2012. Soft ground improvement via vertical drains and vacuum assisted preloading. *Geotextiles and Geomembranes*, [online] 30, pp.16–23. Available at: <<http://dx.doi.org/10.1016/j.geotextmem.2011.01.004>>.
- Indraratna, B., Rujikiatkamjorn, C., Wijeyakulasuriya, V., McIntosh, G. and Kelly, R., 2010. Soft soils improved by prefabricated vertical drains : performance and prediction. In: *Symposium on New Techniques for Design and Construction in Soft Clays*. Brazil: Officna de Textos, pp.227–246.
- Indraratna, B., Sathananthan, I., Bamuwanita, C. and Balasubramaniam, A.S., 2014. Theoretical and Numerical Perspectives and Field Observations for the Design and Performance Evaluation of Embankments Constructed on Soft Marine Clay. In: B. Indraratna, J. Chu and C. Rujikiatkamjorn, eds., *Ground Improvement Case Histories*. Butterworth-Heinemann, pp.83–122.
- Indraratna, B.B. and Redana, I.W., 1997. Plane strain modeling of smear effects associated with vertical drains. *Journal of Geotechnical and Geoenvironmental Engineering*, (May), pp.474–478.
- Jang, Y.S., Kim, B. and Lee, J.W., 2015. Evaluation of discharge capacity of geosynthetic drains for potential use in tunnels. *Geotextiles and Geomembranes*, [online] 43(3), pp.228–239. Available at: <<http://dx.doi.org/10.1016/j.geotextmem.2015.03.001>>.
- Jeon, H., 2014. Short-Term Compressive Properties and Transmissivity of Geonets. *Textile Science and Engineering*, 51(2), pp.96–100.
- Karim, M.R. and Lo, S.C.R., 2015. Estimation of the hydraulic conductivity of soils improved with vertical drains. *Computers and Geotechnics*, 63, pp.299–305.
- Kim, R., Hong, S., Lee, M. and Lee, W., 2011. Time Dependent Well Resistance Factor of PVD. *Marine Georesources & Geotechnology*, 29:2(November 2014), pp.131–144.
- Kim, T.H. and You, S.H., 2015. Settlement analysis considerng sand mat induced initial settlement in soft ground improved by pbd. *International Journal of Civil Engineering*, 13(2), pp.146–152.
- Kim, Y.-T., Nguyen, B.-P. and Yun, D.-H., 2018. Analysis of consolidation behavior of PVD-improved ground considering a varied discharge capacity. *Engineering Computations*, 35(3), pp.1183–1202.

- Koerner, R.M., 2005. *Designing with Geosynthetics*. 5th ed. New Jersey: Pearson Prentice Hall.
- Lo, D.O.K., 1991. *Soil improvement by vertical drains*. University of Illinois.
- Miura, N. and Chai, J.C., 2015. Discharge Capacity of Prefabricated Vertical Drains Confined in Clay. *Geosynthetics International*, [online] 7(2), pp.119–135. Available at: <<http://www.icevirtuallibrary.com/doi/abs/10.1680/gein.7.0169>>.
- Müller-rochholz, J., Recker, C., Umwelttechnik, B.-, Greven, D.- and Diederich, R., 2004. Influence Of Geotextile Filters On The Discharge Capacity Of Geocomposite Drainage Materials .
- Nagahara, H., Fujiyama, T., Ishiguro, T. and Ohta, H., 2004. FEM analysis of high airport embankment with horizontal drains. *Geotextiles and Geomembranes*, 22(1–2), pp.49–62.
- Onoue, A., 1988. Consolidation by Vertical Drains Taking Well Resistance and Smear into Consideration. *Soils and Foundations*, 28(4), pp.165–174.
- Rahadian, H., 1992. *Comparison of Engineering Properties of Soft Marine Clays and Soft Lacustrine Clays from Indonesia*. University of Strathclyde.
- Raisinghani, D. V and Viswanadham, B.V.S., 2010. Evaluation of permeability characteristics of a geosynthetic-reinforced soil through laboratory tests. *Geotextiles and Geomembranes*, [online] 28(6), pp.579–588. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2010.01.001>>.
- Rixner, J.J., Kraemer, S.R. and Smith, A.D., 1986. *Prefabricated Vertical Drains*. Massachusetts.
- Saowapakpi boon, J., Bergado, D.T., Voottipruex, P., Lam, L.G. and Nakakuma, K., 2011. PVD improvement combined with surcharge and vacuum preloading including simulations. *Geotextiles and Geomembranes*, [online] 29(1), pp.74–82. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2010.06.008>>.
- Sarsby, R.W., 2006. Material properties of geosynthetics. In: *Geosynthetics in Civil Engineering*. pp.19–35.
- Sathananthan, I. and Indraratna, B., 2006. Laboratory Evaluation of Smear Zone and Correlation between Permeability and Moisture Content. 132(July), pp.942–945.
- Shen, S.L., Chai, J.C., Hong, Z.S. and Cai, F.X., 2005. Analysis of field performance of embankments on soft clay deposit with and without PVD-improvement. *Geotextiles and Geomembranes*, 23(6), pp.463–485.
- Shin, E.C., Nazarova, Z., Cho, K.Y., Kim, S.H. and Kang, J.K., 2008. Evaluation of discharge capacity with various verical drain core types. In: *Proceedings of the 4th Asian Regional Conference on Geosynthetics*. Shanghai, pp.420–427.
- Tran-Nguyen, H.H., Edil, T.B. and Schneider, J.A., 2010. Effect of deformation of prefabricated vertical drains on discharge capacity. *Geosynthetics International*, 17(6), pp.431–442.
- Tripathi, K.K. and Nagesha, M.S., 2010. Discharge capacity requirement of prefabricated vertical drains. *Geotextiles and Geomembranes*, [online] 28(1), pp.128–132. Available at: <<http://dx.doi.org/10.1016/j.geotexmem.2009.09.004>>.

- Wardoyo, Sarwondo, Destiasari, F., Wahyudin, Wiyono, Hasibuan, G. and Solli, W.P., 2019. *Atlas Sebaran Tanah Lunak Indonesia*. Bandung: BADAN GEOLOGI Kementerian Energi dan Sumber Daya Mineral.
- Williams, N., Giroud, J.P. and Bonaparte, R., 1984. Properties of plastic nets for liquid and gas drainage associated with geomembranes. In: *Proceedings of the International Conference on Geomembranes*. Denver, pp.399–404.
- Zhang, Z., Ye, G. and Xu, Y., 2018. Comparative analysis on performance of vertical drain improved clay deposit under vacuum or surcharge loading. *Geotextiles and Geomembranes*, [online] 46(2), pp.146–154. Available at: <<https://doi.org/10.1016/j.geotexmem.2017.11.002>>.