

# publications

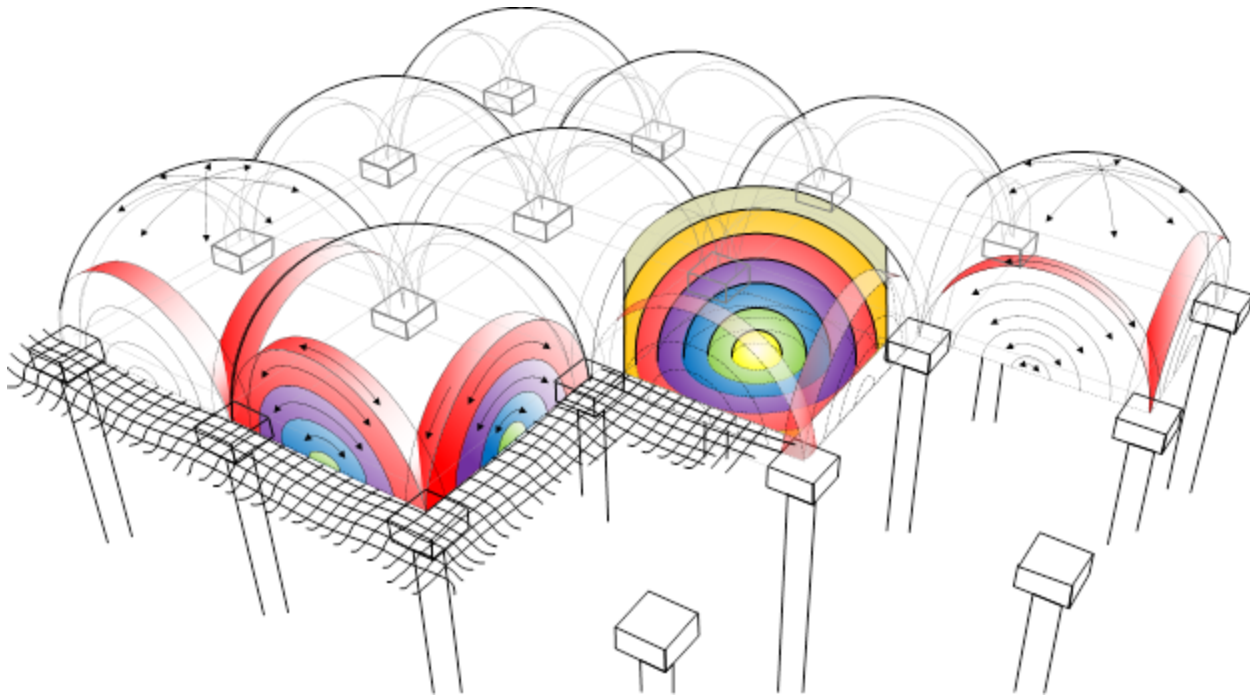
The doctorate dissertation of Suzanne van Eekelen on basal reinforced piled embankments can be found here: [S.J.M. van Eekelen, 2015. Basal Reinforced Piled Embankments, doctorate dissertation TU Delft, ISBN 978-94-6203-826-4](#) (electronic version) or printed: ISBN 978-94-6203-825-7 (for free, please order [here](#)).

A summary of the doctorate dissertation was published here:

- Van Eekelen, S.J.M., Bezuijen, A., Van Tol, A.F., 2014. Research on Basal Reinforced Piled Embankments, Arching and Load-Deflection Behaviour. IGS News, Vol. 30, No. 3 (2014)

The following five papers were published in the journal 'Geotextiles and Geomembranes' and adopted in Van Eekelen's thesis:

- Van Eekelen, S.J.M., Bezuijen, A., van Tol, A.F., 2015. Validation of analytical models for the design of basal reinforced piled embankments. *Geotextiles and Geomembranes* Volume 43, Issue 1, 56 – 81 (open access).
- Van Eekelen, S.J.M., Bezuijen, A., van Tol, A.F., 2013. An analytical model for arching in piled embankments. *Geotextiles and Geomembranes* 39: 78 – 102 (open access).
- Van Eekelen, S.J.M., Bezuijen, A., Lodder, H.J., van Tol, A.F., 2012a. Model experiments on piled embankments Part I. *Geotextiles and Geomembranes* 32: 69 - 81.
- Van Eekelen, S.J.M., Bezuijen, A., Lodder, H.J., van Tol, A.F., 2012b. Model experiments on piled embankments. Part II. *Geotextiles and Geomembranes* 32: 82 - 94
- Van Eekelen, S.J.M., Bezuijen, A., van Tol, A.F., 2011. Analysis and modification of the British Standard BS8006 for the design of piled embankments. *Geotextiles and Geomembranes* 29: 345-359.



The Concentric Arches model, as described in the [thesis of Van Eekelen, 2015](#) and [Van Eekelen et al., 2013](#). The picture visualizes the analytical Concentric Arches (CA) model developed for the design of the geosynthetic reinforcement of a piled embankment. The CA model was adopted in the Dutch Design Guideline for basal reinforced piled embankments (CUR226, 2015) which can be downloaded at [www.sbrcurnet.nl](http://www.sbrcurnet.nl).

The Dutch version of Piled Embankment: [Paalmatrassystemen](#)