

# OPTIMUM PENETRATION DEPTH OF CANTILEVER SHEET PILE WALLS IN DRY GRANULAR SOIL BASED ON RELIABILITY ANALYSIS CONCEPT AND ITS IMPACT ON THE SHORING SYSTEM COST

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## **Abstract**

ABSTRACT These instructions provide you guidelines for preparing papers for International Journal of Application or Innovation in Cantilevered sheet pile walls are commonly used in shoring systems of deep excavation down to about 5.00 m. The most common design procedure for this type of flexible retaining structures is to determine the required penetration depth for stability and then increasing the calculated penetration depth by 20% to 40% to achieve a factor of safety of about 1.5 to 2.0. This procedure has two disadvantages; first, .

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