

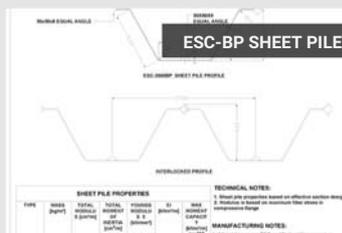
BASCULE BRIDGE COFFERDAM, AUSTRALIA

CASE STUDY

ESC delivered a better alternative to the originally specified AZ36 sheet piles for a cofferdam to allow the construction of the Bascule Bridge for the Adelaide Port River Expressway. Side-by-side, the ESC36BP provided a much drier cofferdam than the adjacent one constructed of AZ36 sheet piles. This was partially due to only containing less than half the number of interlocks and also the interlock design providing an excellent void which can more easily and effectively be filled with grouting for sealing.

Abigroup who were building the Adelaide Port River Expressway needed a cofferdam that was able to be de-watered in order to allow the construction of the bridge piers. The previous option used by Abigroup was second hand AZ36 sheet piles. This option could not provide an adequate water proof area for the construction to proceed in a timely manner. So forced with substantial delays on the first cofferdam, Abigroup decided to use ESC for the second cofferdam.

ESC was approached to help them find a solution. As a result ESC designed a custom sheet pile and called it the ESC3600-BP. This sheet pile was a variation to the catalogue issued BP sheet piles. The BP sheet pile is designed with an open clutch suitable for post installation grout sealing. The BP pile is for de-watering works, groundwater cut-off walls and pollution control situations. This pile with its light weight, wide profile and minimal clutches also provides an attractive commercial proposition for retaining walls and other applications.



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