

FOUNDATION ENGINEERING

Amaala Triple Bay

Beach, RSMLI, Yacht Club and Marina Village Precinct

HOSPITALITY & LEISURE • ICONIC • SECANT PILED WALLS • ROTARY BORED PILES



Client

Amaala Company

Consultant

U+A Architects & WSP Middle East Ltd

Main Contractor

NSCC International

Location

Red Sea Coast, Kingdom of Saudi Arabia

Start Date

July 2022

Completion Date

October 2023

Project Details

Rotary Bored Piles

600 mm dia. piles	: 173 nos., max. depth of 18.93 m
780 mm dia. piles	: 3 nos., max. depth of 17.0 m
800 mm dia. piles	: 127 nos., max. depth of 21.1 m
900 mm dia. piles	: 780 nos., max. depth of 21.1 m
930 mm dia. piles	: 426 nos., max. depth of 21.1 m
1000 mm dia. piles	: 164 nos., max. depth of 41.96 m
1200 mm dia. piles	: 43 nos., max. depth of 46.3 m
Total length drilled	: 33,398.81 LM

Secant Piled Wall

Perimeter	: 213.6 m	Retained height	: 11.26 m
930 mm dia. piles	: 268 nos., 13.7 m & 23 m long		
Total length drilled	: 5,930.02 LM		
Ground anchors	: 170 nos.		

Secant Piled Wall - Submarine Shoring

Perimeter	: 90 m	Retained height	: 6.35 m
630 mm dia. piles	: 186 nos., 14.65 m long		
Total length drilled	: 2,724.90 LM		
Ground anchors	: 13 nos.		

Cut-Off Wall (Micro Piles)

Perimeter	: 111 m
300 mm dia. piles	: 555 nos., 8 m long
Total length drilled	: 4,440 LM

Concrete volume	: 34,957 m ³
Reinforcement steel	: 3,028 tons