



Date: 18th February 2016

To Whom It May Concern

Subject: ESC Piling Products Usage for Berth 3 & 4 at Watco Greens Port Terminals, Houston Texas

Watco Companies purchased the following Piling materials for the construction of Berths 3 & 4 at our Greens Port Terminal in Houston, Texas. The development of each berth comprised 1,035 feet new pipe combi wall bulkhead with an H-Pile combi tie back wall.

These two projects have been referenced in an ESC Group, Case Study information booklet. The project is summarized as follows:

- 4,443 MT of \varnothing 1828.8mm x 19mm (72.0" x 0.75") Pipe Piles with attached welded ESC - C9 connectors.
- 953 MT of ESC-CRZ 26-1400 cold rolled sheet piles (*Waterfront Pipe Combi Wall Infill Sheets*)
- 1,543 MT of ESC-H100/40A Built up H-Beams supplied with attached welded ESC-CR1 & CR2 connectors.
- 840 MT of ESC-CRZ 20-1400 cold rolled sheet piles (*H-Pile Combi Wall Infill Sheets for Tie-back Wall*)
- 380 sets of ESC-M76 Tie-Rods, Grade 500, \varnothing 70mm (2.75") rolled thread at 43.45 meters long (141')
- 128 MT of Walers with stiffener plates
- 32 AMDB 100 MT x 2.37m (58") Bollards

With this project ESC worked together with Watco Companies in the design and supply of the materials. All of the material was manufactured and delivered in accordance with the plans and specification in a timely manner.



I can also confirm that the CRZ 26-1400 cold rolled sheet piles used as the infill sheets in the waterfront pipe combi wall and selected for this project as a cost saving alternative to the AZ 26-700 hot rolled sheet piles that berth 3 continued on from, performed no different in driving and the finished wall is equal or no different to the AZ 26-700 combi wall.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Paul Leonards', with a long, sweeping tail extending to the right.

Paul Leonards
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