

The project 'Muara Karangsong' was developed under the Department of Waterway Engineering, Ministry of Public Works, West Java, Indonesia. The previous design included stones and gabions. As there was a restricted budget stones would have had to be delivered from other areas by using a plenty of trucks, which would cause damages for the current access road.

The chosen system combines the old with Softrock® containers (15,200 pieces). These containers (each with a size of 0.6 m³) were filled with existing soil which is a cost saving solution. The designers also changed the specification of the reinforcement: Secugrid® 40/40 Q6, a high quality geogrid made from interlaced extruded polymer bars with high strength monolithic welded junctions, from NAUE was used instead of a traditional bamboo mattress.

The following system solution was applied:

- pilling system with wooden piles
- reinforcement with Secugrid® 40/40 Q6
- softrock® 601 containers, used as a core of the jetty
- stone gabion for cover and protection
- sand cover
- concrete pre-cast for the access road

The innovative solution contains various advantages, e.g. a quick, easy and cost saving installation in half of the time which shows that a solution using NAUE material can replace conventional designs.

Year of construction: 2004

City / Country: Indramayu-Cirebon, West Java/Indonesia

Installed products:

| | |
|--------------------|------------|
| Secutex® R 601 | 67.000 sqm |
| Secugrid® 40/40 Q6 | 7.500 sqm |



Overview old Jetty



Bag Closing



Inspection during the installation