

MARINE CONCRETE PRODUCT

DESCRIPTION

Type of Marine Product

A - Jack (Concrete Armor unit on Breakwaters)
 Tetrapod (Concrete Armor unit on Breakwaters)
 Precast Harbour

DESIGN & MANUFACTURING REFERENCE

Design

SNI 2847 - 2013

Manufacturing

WB - PCP - PS - 07

PRODUCT SHAPE & SPECIFICATION | A-JACK CONCRETE ARMOR UNIT



Armor Type	Weight (ton)	Width (mm)	Concrete Compressive Strength
A-Jack 1.3t	1,3	2000	fc' = 28 MPa (Cube 350 kg/cm ²)
A-Jack 4.0t	4,0	3050	
A-Jack 10t	10,0	3050	

PRODUCT SHAPE & SPECIFICATION | TETRAPOD CONCRETE ARMOR UNIT



Armor Type	Weight (ton)	Width (mm)	Concrete Compressive Strength
Tetrapod 0.5t	0,5	900	fc' = 28 MPa (Cube 350 kg/cm ²)
Tetrapod 1.0t	1,0	1130	
Tetrapod 2.0t	2,0	1420	
Tetrapod 4.5t	4,5	1870	
Tetrapod 6.0t	6,0	2050	

PRODUCT APPLICATION



HARBOUR / JETTY STRUCTURE



TRESTLE STRUCTURE



CONCRETE ARMOR

PRECAST HARBOUR | PROJECT REFERENCE

| Port of Malahayati



PRECAST PILE CAP



PRECAST FENDER



PRECAST HALF SLAB

A new 10,000 DWT Malahayati Harbour Project is a part of government project for rehabilitate and reconstruction facilities in Nanggroe Aceh Darussalam Province after tsunami disaster in 2004. The harbour uses a precast components for pile cap, beam and half slab to ensure the quality of material and fast construction method. Precision of precast concrete is the main for success of this project.

| Port of Sabang



PRECAST PILE CAP



PRECAST U-BEAM



PRECAST SLAB

A new Sabang Bay Harbour which located in Nanggroe Aceh Darussalam province, is design to be a CT3 transit harbour that can also accommodate 10,000 DWT boat. The purpose of this harbour is to support development around Sabang area in coming year as a business and tourism hub. The harbour is designed with precast component for pile cap, U-shell beams and half slab to ensure the quality of material and fast construction method.

| Trestle at Cirebon Coal Electric Power Plant 1x660MW



The 2-kilometer trestle at the Cirebon Coal Electrical Power Plant Area is use to distribute the coal consumed to drive the 660 MW power plant. The Trestle uses a 20-meter long of precast PC-I girder with high concrete compression strength rods for its upper structure.