

## Single-layer armouring

List of References by CLI and its partners:

Artelia (Sogreah Consultants)  
Baird & Associates

Project N°	SINGLE LAYER ARMOUR TECHNIQUE  Projects	Type of unit  ACCROPODE™: ACC ACCROPODE™ II: ACC 2 CORE-LOC™: CL ECOPODE™: Eco	Unit size used (m <sup>3</sup> )	Year	Water depth
					h(m)
297	<b>Romania</b> - Eforie North Area And Tomis South Area - Protection and rehabilitation of the Southern Port of Romanian Black Sea coast – Reconstruction of several groynes located at Tomis South and Eforie North on the coast of the Black sea at Constanta.	ACC 2	1	2015	4.0
295	<b>Morocco</b> – New power station at Safi – construction of three maritime structure as a rubble mound breakwater to protect intake and outfall cooling water system protected by single layer ACCROPODE™ II units.	ACC 2	6/12/20	2015	10.0
290	<b>Reunion</b> - Nouvelle Route du Littoral – « La Possession Motorway Junction » Lot MT5.1 Building of a 12km long off shore dual carriage way between Le Port and Saint Denis. The road is supported along 6km by a breakwater protected with ACCROPODE™ II units. The Lot 5.1 consists in building the protections located in la Possession and in la Grand Chaloupe.	ACC 2	6 / 8 /11	2015	12.0
287	<b>Roumania</b> - Constanza Beaches Rehabilitation Reconstruction of the several groynes located at Tomis North and Tomis Centre on the coast of the Black sea at Constanta.	ACC 2	1	2014	4.0
286	<b>Reunion</b> - Nouvelle Route du Littoral – « La Possession Motorway Junction, Lot MT2 Building of a 12km long of off shore dual carriage way between Le Port and Saint Denis. The road is supported along 6km by a breakwater protected with ACCROPODE™ II units. The Lot 2 consists in building a new off shore round about.	ACC 2	6	2015	8.0
282	<b>Kuwait</b> - Police Officers Club & Marina - Construction of a main breakwater of 500m long and a lee breakwater of 300m. The maximum depth on roundheads is -5m.	ACC 2	2	2014	5.0
280	<b>Uruguay</b> – Sayago LNG Terminal – Offshore breakwater of around 2000m in length laying on a quasi-flat improved seabed at -6m and rising at +8.5m CD using 3m <sup>3</sup> ACCROPODE™ II units. This is the first LNG import terminal in Uruguay	ACC 2	3	2013	6.0
275	<b>Benin</b> - Cotonou,- Extension of the Western breakwater for the exploitation of the South wharf at the Port of Cotonou.	ACC 2	3/4	2013	10.0
274	<b>Morocco</b> – Safi New Port - Building two rubble mound breakwaters for the new polyvalent port of Safi.	ACC 2	6/12	2013	17.0
271	<b>Malaysia</b> - Kuantan Deep water Port Expansion 4600m long breakwater on the Eastern coast of Malaysian Peninsula. This breakwater is to protect the new deep water port developed by the ECERDC for multipurpose use.	ACC 2	2/4/5	2014	11.0

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	Projects				h(m)
266	<b>Romania</b> - Constantza Port expansion – Extension of the main northern breakwater by 1050 m in deep water. The new primary armour consists of 9m <sup>3</sup> (trunk), 12m <sup>3</sup> (head) and 3m <sup>3</sup> (rearside) ACCROPODE™ II units	ACC 2	3/9/12	2013	20.0
264	<b>Kuwait</b> – KOC Small Boat Harbour – Marine facilities upgrading oil project, consisting in two new small boat harbours south of Kuwait City. The north harbour is new and the south harbour is expanded, new breakwaters armoured with 3m <sup>3</sup> ACCROPODE™ II	ACC 2	3	2013	11.0
258	<b>Australia</b> – Wheatstone LNG plant - Marine facilities located at Ashberton north	ACC 2	3/4	2012	6.0
256	<b>Morocco</b> – Tarfaya - Extension of the Port of Tarfaya including 1207 m of protection	ACC 2	2/4	2012	11.0
254	<b>Morocco</b> – Tanger Pêche - New fishing harbour near Tangiers city.	ACC 2	8	2012	12.0
248	<b>UAE</b> – Abu Dhabi - Zakum Oil field - Upper Zakum most exposed artificial islands N and W aimed at housing drilling platforms - ACCROPODE™ II revetments about 1500 ml each	ACC 2	4.0	2011	11.0
245	<b>UAE</b> – Abu Dhabi – SARB – Satah Al Razboot field development artificial L1 and L2 islands - ACCROPODE™ II armoured revetments about 1500 ml each	ACC 2	3.0	2011	11.0
244	<b>Cape Verde</b> – Vale De Cavaleiros – Northern expansion of the existing multi-purpose port located west of the Fogo Island (south of the Cape Verde Archipelago) . The scope of works include the extension of the main breakwater and the creation of a lee breakwater up north in -5 m waterdepth	ACC 2	3/6	2011	5.5
235	<b>France</b> - Cerbere Reconstruction of existing structures with rocks damaged during Dec. 08 storm using ACCROPODE™ II units	ACC 2	9	2010	11.0
231	<b>India</b> – Kattupalli - This new port is located north of Chennai on the East coast of India - The total length of the breakwaters is over 2 km , protected on their trunk with ACCROPODE™ units and on their roundheads with ACCROPODE™ II (second generation) units	ACC & ACC 2	2.5/4/6.3	2010	12.0

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					h(m)
228	<b>Benin</b> – Cotonou - extension of the sand-intercepting groin at the Southern port boundary to reduce the sediment transport along the shore and at the port entrance	ACC 2	3 - 4	2009	12.0
226	<b>Oman</b> – Shinas - modification of the existing layout of the Shinas harbour at Oman in order to integrate a new fast ferry facility	ACC	3	2009	8.0
217	<b>Morocco</b> – Marchica New layout of the Marchica inlet for a marina development -Two training walls armoured with ACCROPODE™ II, each extending about 500m into the sea	ACC 2	2/4	2008	8.5
200	<b>Italy</b> - Ospedaletti marina - New yacht harbour located near San Reno Liguria - The breakwaters are 1200 m long	Eco & ACC 2	4/6/8	2008	10.6
195	<b>South Korea</b> - Busan Geoje tunnel - Protection of the most exposed part of the immersed tunnel section	ACC 2	11/15/20	2007	22,2
		CL	5	2007	28.0
188	<b>Angola</b> - Dalia UFL spool base jetty - Reinforcement of the existing vertical wall with a rubble-mound protected with ACCROPODE™ II armour units over 300 meters length	ACC 2	8	2007	8.6