, t	SINGLE LAYER ARMOUR TECHNIQUE	Unit size	Year	Water
Project N°	Projects	used (m³)		depth
Ф				h(m)
243	India - Karaikal - Phase 2 - Extension of both breakwaters at the port entrance by about 500 m in deeper water in aligment of the existing breakwaters	3/4	2011	7.5
242	Lebanon - Summerland Marina - Phase I - Small marina for the Kempinski hotel and resort located on the Beirut seashore - A limited number of 12 m³ ACCROPODE™ units were placed for this temporary construction phase	12	2010	
241	Oman – Muttrah corniche repairs - Repair works to Phet storm damage at Muttrah cornice - Dolos were replaced along 60 m stretch by 3m³ ACCROPODE™ units	3	2010	7.6
240	Morocco - Tanger Med II - New container port located 35 kms East of Tangiers with breakwaters of 2560 m and 310 m long armoured with ACCROPODE™ units	4/6.3/9	2010	24.0
238	Cyprus - Limassol Marina - Major marina near Limassol South of Cyprus island, to protect boats of 5m to 60m in length - The protection is ensured by two breakwaters of 700 m long in total, most of it armoured with ACCROPODE™	2/4/5	2010	14.2
236	Cape Verde - extension of the SAL-REI harbour on the north west of the Boavista Island including a protection of approximately 1 050 m length protected with ACCROPODE™ units on 580 m	3/4	2011	12.0
231	India – 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	2.5/4/6.3	2010	12.0
230	Libya – Tripoli port - Complete new ACCROPODE™ primary armour on top of the damaged Tetrapod armour – Adapted repair design along the 3600 m long main breakwater	6.3/9	2009	12.0
229	Algeria – Arzew – Construction of a new LNG plant - Export loading facilities	4 - 6.3	2009	7.5
226	Oman – Shinas - modification of the existing layout of the Shinas harbour at Oman in order to integrate a new fast ferry facility	3	2009	8.0
224	Tunisia – Skhira - New layout of water intake of Skhira chemical plant	0.8/1	2009	4.5

Project N°	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used (m³)	Year	Water depth
Pro	Projects	()		h(m)
223	Libya – Al Mresa - Fishing harbour near Benghazi - 1700 m of breakwaters	2/2.5	2009	5.0
222	Saudi Arabia – Shoaiba Power Plant stage 3 - Extension of the plant located on the Red Sea - Protection of the new intake works north of the existing one	1.5/2	2008	3.0
221	Cape verde – Palmeira Port Phase 1 Modernization of the commercial port located west of Sal Island - Breakwater extension in 6 m of waterdepth	2	2009	8.0
218	Bahrein – Muharraq sewage treatment plant - STP square reclamation works south east offshore of the greater scheme protected with 1.5m³ ACCROPODE™ units	1.5	2009	9.7
216	Libya – Tripoli Marina Phase 2 Second stage of works protecting the marina itself, including the main and lee breakwaters	2/4/6.3	2008	7.7
214	Oman – Jalali – Complete repair of the 300 m long revetment in front of the royal palace, further to the failure of the hollow units following Gonu hurricane	16	2008	17.3
212	Iran – Pars Flare Substructure – Protection of reclaimed land in shallow water within the Pars project industrial area	1.5	2008	9.4
211	UAE – Abu Dhabi – Khalifa – Extension of the existing commercial harbour – Works include several kilometers of breakwaters and revetments extending out in the sea	1.5/2.2	2008	12.4
210	Libya – Tripoli Marina – New marina located just west of the capital – First stage of works consisting of coastal protection	2/4	2008	7.7
208	St Marteen – Phillipsburg – Extension of the ferry terminal located in the Dutch part of the island – The new breakwater protects the QE2 quay	12/16	2008	13.5
207	India – Karaikal – New private industrial harbour south of Pondicherry – 2 breakwaters protect the entrance of the port constructed in land	2.5/3	2008	7.5

ect	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
204	Western Arabian Gulf Coast - shore protection - housing and industrial property project - 2000 Ha of reclaimed land - ACCROPODE™ used for the eastern and northern seawall breakwaters and revetments	1.5	2008	11.0
203	India – Jaigarh port - Greenfield all weather port facility at Dhamankul bay in Ratnagiri state (west coast) - Protection of the main breakwater (520 m)	9/12	2008	15.2
199	Italy - Ortona port extension phase II - East coast of Italy (Adriatic seaside) - Main breakwater extended by 500 ml	4/6.3/9/12	2007	13.0
198	Tunisia - Bekalta fishing Harbour - Extension works at Belkata near Monastir - Main breakwater : 140 ml (south) Secondary breakwater : 75 ml (north)	1.5/2	2007	5.5
196	Libya - Garabulli fishing harbour - New port located 60 kms east of Tripoli - Main breakwater (500 ml) and roundhead of the secondary breakwater	3/6.3	2007	7.5
194	Morocco - Tanger Roro plateform - New specialised terminal next to the container port - Two breakwaters and shore protection are rubble-mounds armoured with various ACCROPODE™ sizes	4/6.3/9/ 12	2007	20.0
193	Qatar - Ras Laffan LNG port expansion - 5 kms of protection of the deepest stretches of the northern and southern breakwaters as well as the offshore breakwater located in the entrance of the new LNG port	3/4/5	2007	14.6
192	Martinique - Grand Rivière fishing harbour - Extension of the fishing harbour with a completely new main breakwater	1.5 / 5	2007	5.7
187	Chile - Loma larga platform - Repair of the existing reclamation located near Valparaiso	5	2006	3.0
185	La Reunion -Sainte Suzanne anti- flooding scheme - Construction of two short parallel breakwaters to frame the river outlet channel	2/3	2007	6.3
179	Tunisia – Hammamet marina – 150 m long extension of the existing main breakwater	6.3	2006	6.0

ect	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
178	La Reunion – Port est – Protection of the spur at the entrance of the port	12	2006	17.5
177	India – Gangavaram port – The extension of the commercial port requires the construction of two new breakwaters	2.5/4/6.3/9/ 12	2006	15.0
176	Oman – Salalah container port – 3 km long breakwater to protect the new container berths located in deeper water	12	2006	23.0
175	Yemen – Bal Haf LNG terminal – Construction of a new breakwater and shore protection of the LNG facilities	1.5/2.5/4	2006	19.0
170	Italy – Oneglia commercial port near Imperia city on the Ligiuria coast - Armour protection of the main and lee breakwater	4.0/2.5	2005	10.0
169	Thailand – Map Ta Phut cooling water intake lagoon - Second phase of works involving the construction of an armoured protection for intake works	2/2.5	2005	4.5
168	Italy – Port of Ortona - 820m long extension of the existing northern breakwater	4/6.3	2005	10.0
166	Lebanon – Extension of the main jetty in Tripoli	9/12	2005	10
165	Kuwait – Fintas Marine Center - New harbour for Kuwait University on the south part of the country - Protection of the 520m long main breakwater	2.5/3	2004	4.5
159	Morocco – New container port of Tangiers – Construction of the main and lee breakwaters	4/9/16	2003	20.0
157	Italy – Protection of Venetia against flooding; construction of the off shore breakwater at Chioggia entrance	6.3	2003	12.0
156	Italy – Protection of Venetia against flooding; construction of the offshore breakwater at the Malamocco entrance	6.3/4	2003	12.0
154	Netherlands Antilles – Rehabilitation of the main breakwater at the Fort Bay Harbour on the Island of Saba	4/6.3/9/16	2003	11.6
151	Malta – Extension of the existing breakwater at the Cirkewwa ferry terminal	9/16	2002	12.0

ಕ	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
149	India - Construction of 2 breakwaters for the Hazira LNG terminal	4/6.3	2002	13.0
148	UK – Coastal road protection- Construction of a protective seawall in Scarborough	6.3/9	2002	6.0
145	France - Construction of new breakwaters in Le Havre as part of the Port 2000 project	1.5/2/3	2002	10.7
144	Dominican Republic - Construction of the breakwater protecting Caucedo multimodal terminal	4/9/16	2002	16.0
142	Martinique - Coastal protection for the RD10 road in the commune of Le Prêcheur	2.5	2002	2.0
140	Bulgaria - Breakwater protecting Bourgas harbour	2/3	2001	12.0
139	Hong Kong - Protection of the new container terminal no. 9	2/3	2001	16.6
138	Lebanon - Protection for the marina at the Movenpick Hotel	16/18	2001	
136	Argentina - Construction of the breakwater protecting Rawson harbour entrance	1/2/3	2001	7.0
135	India - Breakwater protecting the LNG terminal in Dahej	2.5/4/6.3	2001	20.0
134	Spain - Breakwater protecting La Esfinge in Las Palmas – Canaries islands - Gomera	12/16	2001	24.0
133	Vietnam - Construction of a breakwater to protect Dung Quat refinery	2/4/6.3/9/ 12/16	2001	16.0
132	Yugoslavia - Renovation of the breakwater at Luka Bar harbour	5	2000	16.0
131	Malta - Protection of the reclaimed land for the Cirkewwa ferry terminal	1.5	2000	3.5
130	Tunisia - Reinforcement of the main breakwater at Sidi-Mechreg harbour	2.5/4/6.3/9	2000	6.0
129	France - Breakwater protecting the road link between Frontignan and Sète - Phase II	4	2000	7.0
128	France - Protection for the coastline of Les Buttereaux in St Pierre et Miquelon	2.5	2000	1.0

act	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
126	Monaco – Underwater slope protection in front of caissons of the Condamine Port	4	2000	20.0
125	Japan – Second stage of marine works at the Higashi-Dori power station	4/6.3/9/12/ 14/18	2000	12.0
124	Japan – Protection of the South revetment of Ohma nuclear power plant	3/16	2000	9.0
123	Seychelles – Repair of the breakwater for a yacht harbour on Fregate Island	2	2000	4.5
121	Tunisia – Construction of the North breakwater of the Rades intake canal	0.8/1.5	1999	3.5
119	Saudi Arabia – Intake works protection of the Shoaiba thermal power plant	1.5	1999	21.5
118	France – Reinforcement of the South jetty of Gruissan previously armoured with stones	4	1999	6.0
116	India – 1.2 km offshore breakwater for the new Dabhol LNG terminal	9/12	1999	9.7
115	Chile – Repair of the Loma Larga platform protecting the water treatment plant near Valparaiso	5	1999	7.0
114	Netherlands Antilles - Breakwater protection for access to new cruise liner jetty – St-Maarten	6.3	1999	14.5
113	France (Corsica) - Reinforcement of the North Jetty breakwater at Bastia	4/6.3	1999	13.0
112	Libya - New port at Sirte - Main and secondary breakwaters	3/6.3/9/12	1998	10.0
111	France - Renovation of existing breakwater at the Port of Argeles	4/6.3	1998	8.0
110	Japan – Okinawa - Protection to a reclaimed area of land at Kim Power Plant	2.5	1998	6.0
109	Poland - East training wall for mouth of River Wisla Smiala	1.5/2.5	1998	7.5
108	Tunisia - New marina at Hammamet-Sud - Breakwaters	2.5/4/6.3	1998	7.5
107	Tunisia - Strengthening of a northern breakwater at the commercial harbour of La Goulette	2.5/4	1998	7.0

Project N°	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Pro	Projects	(m³)		h(m)
106	Egypt - Detached submersible breakwaters for shore protection works at Cleopatra in Alexandria	1.5	1998	6.0
105	Taiwan - Protection of landfill platform at Chang-Hua	2	1998	6.0
104	France (Corsica) - Rehabilitation of Toga Marina breakwater near Bastia	9	1998	15.0
103	Lebanon - Protection for Beirut Central District project and Western Marina breakwater	4/6.3/9/14/ 16	1998	20.0
100	Japan - Protection of landfill platform Phase 2 - Hitachinaka power station project	12	1997	14.5
99	India - Breakwater protection works at Ennore Satellite Port near Madras	4/5/6.3	1997	13.0
98	Japan - External protection for reflecting caisson structure in deep water at Haramachi	6.3/9	1997	13.0
97	Hong Kong - Protection for a reclamation area and an offshore breakwater for the container port - River Trade Terminal 38	2.5/3	1997	20.0
96	Malaysia - Protection of groynes to assist in beach nourishment at Dungun	0.8/1/2	1997	5.1
95	Japan - Protection of reclaimed land area at Hibikinada - Phase 2	4	1997	13
94	Japan - Protection of a roundhead structure at Shin Isogo Power Station	2	1997	10.5
93	Japan - Breakwater protection works at Higashi Dori nuclear power station	4/6.3/9/12/ 14/16/18/2 0	1997	12.0
92	Lebanon - Port of Beirut further extension of Main Breakwater	16/18	1997	21.0
91	Thailand - Protection of reclaimed land at Map Ta Phut Industrial Port (phase 2)	1/2/2.5	1997	10.0
90	Tunisia - Construction of breakwater extension to Beni Khiar fishing harbour	2.5/4	1997	8.0

Project N°	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Pro	Projects	(m³)		h(m)
89	Tunisia - Construction of breakwater protection for El Haouaria fishing harbour	1.5/2.5/4	1997	5.4
88	Philippines - Construction of breakwater protection to an outfall channel at Masinloc	0.8/1.5	1997	9.3
87	Japan - Protection of reclaimed land area at Hibikinada	4	1996	12.6
86	St-Barthelemy - Erosion protection for a small quay structure at Gustavia	6.3	1996	6.1
85	Malaysia - Protection of reclaimed land at Chendering Fishery Harbour	0.8/1	1996	3.6
84	Oman - Construction of new protection breakwaters for SUR Fishery Harbour	2.5/4/6.3/9	1996	10.5
83	Ivory Coast - Construction of a breakwater to prevent sand transportation near the port of Abidjan	4/6.3	1996	20
82	Tunisia - Extension of the protection breakwater for La Chebba Fishery Harbour	1.5	1996	4.6
81	Tunisia - Construction of a new protection breakwater for Cap Zebib Fishery Harbour	4	1996	6.8
80	Argentina - Protection for reclaimed land at Comodoro Rivadavia	1	1996	5.0
79	Malaysia - Construction of new protection breakwaters for Kuala Besut estuary	0.8/1.5/3/4	1996	5.0
78	Uruguay - Extension of the existing breakwater of the Port of Piriapolis	2.5	1995	12.0
77	France - Extension of the breakwater for Port Joinville Marina on the Isle of Yeu	2.5	1995	7.7
76	Oman - Construction of new protection breakwaters for Shinas Fishery Harbour	1/2/3	1995	6.7
75	Oman - Construction of new protection breakwaters for Quriyat Fishery Harbour	2/3/4	1995	4.0
74	Spain - Construction of the new breakwater for Algeciras Marina	6.3/9	1995	11.0
73	Spain - Construction of the new breakwater for Port Bou Marina	6.3/9	1995	15.0
72	Argentina - Extension of the main breakwater of the port of Comodoro Rivadavia	6.3/9	1995	8.0

ect	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
71	Oman - Breakwaters of the new Al Nadi Al Bahri marina	3/5/6.3	1994	5.0
70	Tunisia - Reinforcement of the roundhead of Sousse Harbour	4	1994	5.9
69	France - Extension of the main breakwater in Palavas-les-Flots marina	2/3	1994	5.0
68	France - Rebuilding of the roundhead on Saint Nicolas jetty and the 8th berth in Bastia commercial harbour	2.5/9/12	1994	13.0
67	Italy - Construction of the new main breakwater in Ciro Marina	12	1994	12.0
66	Oman - New jetty at Mina al Fahal oil terminal near Muscat	4	1994	4.0
65	Japan - Protection of the landfill platform at the new Nakaminato power plant	12	1993	14.5
64	Spain - Protection of the marina basin at Melilla (North Africa)	4	1993	9.0
63	Tunisia - Construction of the extension to the main breakwater in Ghar el Mehl fishing harbour	2.5/4	1993	7.0
62	French antilles - Construction of the roundhead on the main breakwater of Galisbay commercial harbour in Saint-Martin (French West Indies)	6.3	1993	5.0
61	Comoro Islands - Protection of the new runway extension at Pamandzi airport, Mayotte	2.5	1993	8.0
60	Greece - Coastal protection at Ixia on the North of the Island of Rhodes by the construction of detached breakwaters built off shore	1.5	1993	5.0
59	France - Coastal protection of a reclaimed platform for building a new treatment plant at Cap Sicié, near Toulon	6.3	1993	5.0
58	Oman - Construction of a new dyke to protect a reclaimed land for container storage at Mina Qaboos near Muscat Harbour	5	1993	11.5
57	France - Rehabilitation of the main breakwater (originally built with armour stone) of the Pointe Rouge Marina in Marseille	4/6.3	1992	10.0
56	New Caledonia - New port of We - Main breakwater	4/6.3	1992	12.0

Project N°	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Pro	Projects	(m³)		h(m)
55	Macau - New international Macau Airport - Protection of the entire reclaimed platform	0.8/4/6.3	1992	5.0
54	Thailand - New industrial Prachaup Port - Main breakwater	4/5	1992	11.0
53	Greece - Island of Rhodes - Plimiri Harbour - Extension of the main breakwater	6.3	1992	5.0
52	France - Gruissan Harbour - Rehabilitation of a roundhead (previously stone armoured) at the entrance of the harbour	4	1992	6.0
51	New Caledonia - New Port of Tadine - Main breakwater	2.5/3	1992	10.0
50	Martinique - Shore protection - Supply of blocks to protect several sites on the island coastline	1/1.5/2.5	1992	-
49	France - Commercial Port of Sete - Dellon offshore breakwater - Rehabilitation of the seaward roundhead (previously armoured with Tetrapodes)	20	1992	14.5
48	Great Britain - Construction of the new South pier at Hartlepool Marina	2.5/4	1991	2.4
47	France - Extension of East and West jetties Gravelines harbour	2.5/4/6.3	1991	7.0
46	Martinique - Consolidation of breakwater, Bellefontaine terminal	4	1990	8.0
45	Spain - Protection of the main breakwater, new marina at Palamos (near Barcelona)	9/12	1990	15.0
44	Japan - Protection of a thermal power plant at Haramachi	4/6.3/9/12	1990	10.0
43	Spain - Protection of the main breakwater, new marina at Mazagón (near Huelva)	2.5/4	1990	5.0
42	Netherlands Antilles - Rehabilitation of breakwater - Saba harbour	2.5/4/6.3	1990	3.0
41	Lebanon - Development of Beirut north shore	16/18	1989	10.5
40	France - Consolidation of main breakwater, Nice Harbour	16	1989	8.0
39	France (Corsica) - Extension to Toga fifll platform 2nd stage	9	1989	9.0
38	Macau - Protection of an earthfill Platform for oil tankers, port of Ka-Ho	5	1989	7.3
37	Great Britain - Restructuring of a roundhead Port of Tees and Hartlepool	2.5	1989	0.0

ect	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
36	France - Frontignan fishing harbour New breakwaters	4	1989	5.0
35	France - New marina at Saint-Denis d'Oléron	0.8/1.5	1988	1.5
34	French antilles - Protection of Jeanne d'Arc quay on Saint-Barthélémy (French West Indies)	1.5	1988	4.0
33	Uruguay - Punta Carretas - Coastal protection	1.5/2.5	1988	0.0
32	France (Corsica) - Extension of Toga fill platform - 1st stage	4/6.3	1988	9.0
31	Morocco - Shore protection for the new Hassan II mosque, Casablanca	6.3	1988	2.0
30	Martinique - Commune of Grand'Rivière Coastal protection	1.5	1988	0.0
29	Martinique - Shelter for fishing boats at Grand'Rivière	1.5	1988	2.5
28	Great Britain - New breakwater - Port of Tees and Hartlepool	0.8	1988	2.7
27	South Africa - Lynch Point marina Main breakwater	4	1987	5.0
26	Lebanon - Portemilio marina - Main breakwater	16	1987	11.5
25	France - Breakwater in the estuary of the river Aude	2.5	1987	4.0
24	France (Corsica) - New marina at Toga	4/9	1987	8.5
23	Guadeloupe - Extension to the breakwater in Beauséjour harbour/La Désirade	1.5	1987	2.0
22	Martinique - Coastal protection in the commune of Marigot	1.5	1987	1.0
21	Morocco - Temporary protective breakwater during construction of new Hassan II mosque, Casablanca	6.3	1987	2.0
20	Spain - New marina and fishing harbour at Llança - Protective breakwaters	6.3/9	1986	10.0
19	Lebanon - Beirut commercial harbour Extension of the main breakwater	16/18	1986	8.5

act	SINGLE LAYER ARMOUR TECHNIQUE	Unit size used	Year	Water depth
Project N°	Projects	(m³)		h(m)
18	Tunisia - New fishing port at Monastir Main and secondary breakwaters	1.5/2.5/4	1986	5.0
17	France - New sea outlet for the Rhone/Sète canal near Sète - Eastern breakwater	4	1986	5.5
16	France (Corsica) - Ile Rousse commercial harbour and marina - Consolidation of the main breakwater	4	1986	6.5
15	Spain (Canary Islands) - New marina at Puerto Colon - Main breakwater	6.3/9	1985	10.0
14	Martinique - Protection of the coastal road at Saint-Pierre	1.5	1985	0.0
13	France (Corsica) - Bastia commercial port Consolidation of the main breakwater 2nd stage works	6.3	1985	25.0
12	Martinique - Grand Rivière fishing harbour - Main breakwater	1.5	1985	2.5
11	France - Molène passenger harbour (Brittany) Consolidation of main breakwater	12	1985	1.0
10	France - Frioul marina - Consolidation of main breakwater	4	1984	2.6
9	France - Calais commercial port - New eastern breakwater	4/6.3/12	1984	17.0
8	France (Corsica) - Bastia commercial harbour Consolidation of main breakwater - 1st stage	4	1983	5.8
7	South Yemen - Al Mukallla commercial port - Main Breakwater	5/6.3	1983	7.0
6	Tunisia - Monastir marina - Breakwater at entrance to port	6.3	1983	4.0
5	Tunisia - New fishing harbour at Bizerte-Zarzouna - Main and subsidiary breakwaters	4/6.3/9	1983	7.0
4	Egypt - New commercial port at Damietta Eastern and western breakwaters	1.5/4/9	1982	7.0
3	Martinique - Bellefontaine terminal	4	1981	8.0
2	France (Corsica) - Toga fill platform	4	1981	3.5
1	France - Port of Sète - Eastern breakwater	4	1981	9.0