



ARCHIMEDES S.A.




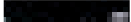








ARCHIMEDES S.A.





ARCHIMEDES S.A.

## CONTENTS

 HISTORY		4 > 5
 MARINE WORKS		8 > 21
 BUILDING WORKS		22 > 35
 INFRASTRUCTURE WORKS		36 > 48
 FIBER OPTIC NETWORKS		50 > 53

OVER 300 PROJECTS IN VIRTUALLY ALL PORTS AND HARBOURS OF GREECE

- 1

|

Agia Galini, Crete

2

|

Agiokabos Larissas

3

|

Agios Nikolaos, Crete

4

|

Anavalos

5

|

Argostoli, Kefalonia

6

|

Aspra Spitia

7

|

Aspropyrgos

8

|

Astakos

9

|

Corfu

10

|

Corinth
- 11

|

Coufonissi

12

|

Egina

13

|

Elefsina

14

|

Faliro

15

|

Halkida

16

|

Igoumenitsa

17

|

Ikaria

18

|

Iraklio, Crete

19

|

Isthmia

20

|

Itea
- 21

|

Kalamata

22

|

Kalymnos

23

|

Katakolo

24

|

Kavouri

25

|

Katerini

26

|

Keratsini

27

|

Kiato

28

|

Kos

29

|

Larymna

30

|

Leros
- 31

|

Lipsi

32

|

Methana

33

|

Megara

34

|

Metohi

35

|

Milaki

36

|

Mykonos

37

|

Nafplio

38

|

Nea Karvali

39

|

Nissiros

40

|

Patmos
- 41

|

Patras

42

|

Perama

43

|

Piraeus

44

|

Porto Heli

45

|

Possidonia

46

|

Poros

47

|

Psathopyrgos

48

|

Pylos

49

|

Rio

50

|

Rhodes
- 51

|

Salamina

52

|

Sami, Kefalonia

53

|

Samos

54

|

Sitia, Crete

55

|

Skaramangas

56

|

Skopelos

57

|

Skorpios

58

|

Souda, Crete
- 59

|

Sparti

60

|

Spetsopoula

61

|

Symi

62

|

Syros

63

|

Thessaloniki

64

|

Tinos

65

|

Trizonia

66

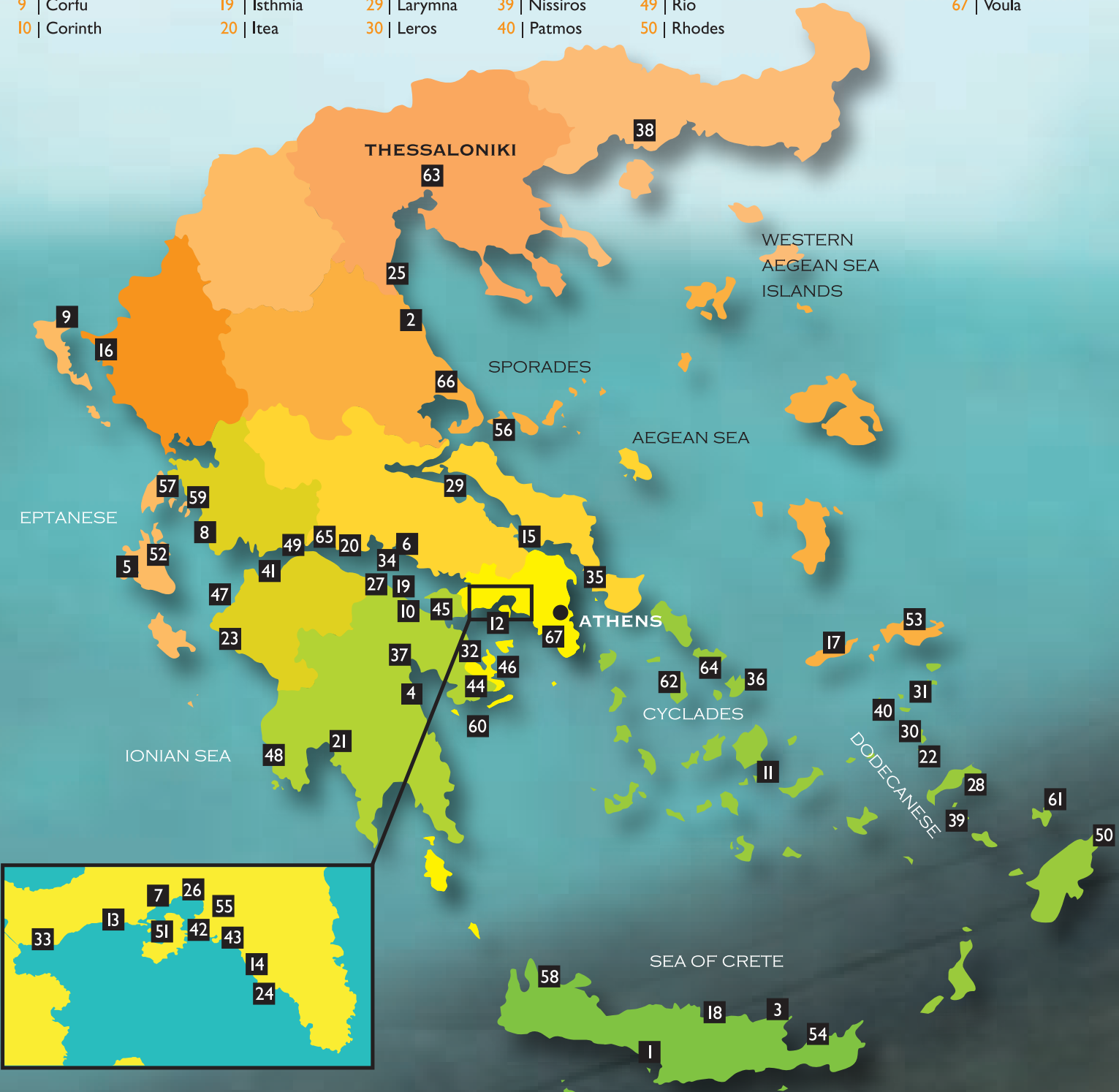
|

Volos

67

|

Voula



Archimedes SA is a leading contractor in the civil and marine construction field in Greece. Since 1949 the company has completed an impressive array of technically demanding civil engineering projects both in Greece and overseas. Over 300 projects have been successfully completed in time, within budget and to the specified quality requirements, thereby satisfying the most demanding clients within both the public and private sectors.

Archimedes SA has executed major marine projects such as commercial ports, container terminals, marinas and fishing harbors. The company has also been involved in other types of civil engineering projects, such as infrastructure works (water channels, sewage and underwater outfall pipelines, utilities networks and fiber optic networks) and building works (housing units, schools, hospitals, touristic villages and parking structures).

Our clients, among others, include most Port Authorities in Greece, the Greek Public Power Corporation, the Greek Army and Navy, the Greek Tourism Organization and prominent industries such as the Hellenic Oil Refineries, Titan Cement Company and Shelman Timber Industries.

Archimedes SA has a sound management team of well trained professionals (managers, engineers, superintendents and foremen) and a highly skilled workforce (operators, divers, quarry specialists and various technicians).

The company possesses a variety of easy to move mechanical equipment both for marine and other type of civil engineering works, such as floating cranes, tugboats, split hopper barges, loaders, excavators, dumpers etc.

The company’s goal is to expand its activities abroad and continue to provide construction management as well as engineering design and consulting services with the same commitment to excellence that launched our success more than half a century ago.







Port of Piraeus



Kiato Harbour



Anavalos dam and pumping station



Shelman factory at Halkida



Katakolo pier



Quaywall at the port of Hydra



Marine infrastructure at Skaramangas



Limestone quaywalls at Scorpis, Onassis' private island



Titan cement factory at Psathopyrgos



Port of Patras - St. Nikolas pier



Passenger terminal at Corfu Harbour



Kalymnos pier





PROJECT

AGIOKABOS  
FISHING HARBOUR

LOCATION  
CONSTRUCTION PERIOD

Agiokabos - Greece  
2005-2007

- | 470m rubble mound breakwater with Tetrapod armour units
- | 550m quaywalls
- | Service networks



PROJECT

FLISVOS MARINA  
EXTENSION

LOCATION  
CONSTRUCTION PERIOD

Flisvos - Greece  
2009 - 2010

- | 47 Mega yacht marina
- | 550m rubble mound breakwater armoured with quarry rock
- | 450m quaywalls
- | 70m pier on 30m concrete piles





MARINE  
WORKS

PROJECT

HALKITIS SHIPYARD  
EXTENSIONLOCATION  
CONSTRUCTION PERIODPerama - Greece  
2008-2009

- | Travelift piers for 1000ton capacity travelift
- | 2.500m<sup>2</sup> heavy duty concrete pavements
- | Construction activities under sustained shipyard's operation
- | Soil improvement by dynamic compaction



PROJECT

ASTAKOS MARITIME  
INDUSTRIAL  
FREE ZONELOCATION  
CONSTRUCTION PERIODAstakos - Greece  
2005-2007

- | 1.200m quaywall construction with reinforced concrete caissons
- | Massive rock dredging and reclamation
- | 16,5m service depth





PROJECT

VOULIAGMENI  
MARINALOCATION  
CONSTRUCTION PERIODAthens - Greece  
2007-2008

| Strengthening of rock breakwater  
and renovation of the marina



PROJECT

ZEA MARINA  
BREAKWATERLOCATION  
CONSTRUCTION PERIODPiraeus - Greece  
2005 - 2007

| Armouring of the 500m vertical wall breakwater with 5m<sup>2</sup> and 6.3m<sup>2</sup> Accropode armour units  
| Design-Build project  
| Concrete crown wall with a limestone inner face





PROJECT

COUFONISSI  
MARINA

LOCATION  
CONSTRUCTION PERIOD

Coufonissi Island - Greece  
2006 - 2008

- | 50 yacht marina
- | 170m breakwater with quarry rock
- | 300m quaywalls
- | Utilities networks



LOCATION  
CONSTRUCTION PERIOD

Skopelos Island - Greece  
2006 - 2007

- | 80 yacht marina
- | 90m breakwater with quarry rock
- | 200m quaywalls
- | Utilities networks



PROJECT

ASTAKOS MARITIME  
INDUSTRIAL  
FREE ZONE

LOCATION  
Astakos - Greece

CONSTRUCTION PERIOD  
2005-2007



- | 1.200m quaywall construction with reinforced concrete caissons
- | Massive rock dredging and reclamation
- | 16,5m service depth

PROJECT

KLIMA MARINA

LOCATION  
Skopelos Island -Greece

CONSTRUCTION PERIOD  
2006-2007



- | 80 yacht marina
- | 90m breakwater with quarry rock
- | 200m quaywalls
- | Utilities networks

PROJECT

RASH HILAL  
FISHING HARBOUR  
PHASE I

LOCATION  
Rash Hilal - Libya

CONSTRUCTION PERIOD  
2006-2008



- | 300m rubble mound breakwaters with Accropode armour units
- | 320m quaywalls

PROJECT

RASH HILAL  
FISHING HARBOUR  
PHASE 2

LOCATION  
Rash Hilal - Libya

CONSTRUCTION PERIOD  
2008-2010



- | 700m rubble mound breakwaters
- | 400m quaywalls
- | 650m protective wall
- | Utilities networks



- | 900m quaywalls with service depth 16,5m
- | 70.000m<sup>2</sup> container area
- electrical substation and all infrastructure works (crane rails, electromechanical installation, service networks) for the operation of the terminal



PROJECT

AGIOS KOSMAS  
OLYMPIC  
SAILING CENTER

LOCATION  
CONSTRUCTION PERIOD

Athens - Greece  
2001-2004



- | 1.600m rubble mound breakwaters with Accropode armour units
- | 1.600m quaywalls
- | 1.100m floating pontoons and 230m articulated floating ramps
- | 25.000m<sup>2</sup> buildings and 150.000m<sup>2</sup> landscaping
- | Extensive soil improvement by dynamic compaction



MANAGEMENT  
WORKSmanaged by  
Archimedes' executives

## PROJECT

RHODES MARINA  
PHASE ALOCATION  
CONSTRUCTION PERIODRhodos Island - Greece  
1996 - 1999

- | 600m yacht marina
- | 910m rubble mound breakwater with Accropode armour units
- | 1.600m quaywalls
- | Utilities networks



## PROJECT

## LEFKADA MARINA

LOCATION  
CONSTRUCTION PERIODLefkada Island - Greece  
1999-2002

- | 650 yacht marina
- | 1.300m quaywalls
- | 650m floating piers and 300m floating breakwater
- | 10.000m<sup>2</sup> buildings





MANAGEMENT  
WORKSmanaged by  
Archimedes' executives

## PROJECT

AKTI VASSILIADI  
PIREAEUS  
CENTRAL  
PASSENGER PORTLOCATION  
CONSTRUCTION PERIODPiraeus - Greece  
1997-1999

- | 900 quaywalls
- | Two berthing basins of total area 30.000m<sup>2</sup>
- | Massive rock dredging by underwater blasting
- | Extensive demolitions-recovering of existing concrete blocks



## PROJECT

EXTENSION  
OF 6<sup>TH</sup> PIER AT  
THESSALONIKI PORTLOCATION  
CONSTRUCTION PERIODThessaloniki - Greece  
2006 - 2009

- | Dredging from -15m to -24m
- | Sea Bottom soil improvement with
  - a| Vertical Plastic drains installation from -16m to -40m
  - b| Vibro replacement Stone columns of 13m length



# BUILDING WORKS

H

MW

BW

IW







PROJECT

PIREAUS PORT  
AUTHORITY OFFICE

LOCATION  
CONSTRUCTION PERIOD

Pireaus - Greece  
2006 - 2008

- | 6000m<sup>2</sup> total area
- | Bioclimatic design
- | Commercial terminal situated at the building's basement

PROJECT

WAREHOUSES B6-B8  
AT PIREAUS PORT

LOCATION  
CONSTRUCTION PERIOD

Pireaus - Greece  
2008

- | 6.300m<sup>2</sup> total area
- | Composite structure
- | 20m max height for accommodation of straddle carriers







PROJECT

RENOVATION OF  
MARTINOU BUILDING

LOCATION  
CONSTRUCTION PERIOD

Athens - Greece  
2006 - 2008

- | 1.200m<sup>2</sup> total area
- | Structural strengthening and complete renovation of a neoclassical building
- | Interior conversion into an art gallery and offices
- | Architectural finishing and electromechanical works



PROJECT

GREEK EMBASSY  
RENOVATION

LOCATION  
CONSTRUCTION PERIOD



Bucharest - Romania  
1997 - 2000

- | 2.400m<sup>2</sup> building of 1900
- | Full renovation of neoclassical facade and interiors
- | Structural strengthening with gunite
- | Architectural finishing and electromechanical works





PROJECT

VILLAS IN  
DIONYSOS

LOCATION  
CONSTRUCTION PERIOD

Dionyssos - Greece  
1999 - 2010

- a| Terpsihoris Street : 2 villas X 300m<sup>2</sup> with swimming pools
- b| Kapodistriou Street: 2 villas X 280m<sup>2</sup> with swimming pools
- c| Efterpis Street: 1 villa X 600m<sup>2</sup> with swimming pool







PROJECT

DRAKOS  
HOUSING  
APARTMENTS

LOCATION  
CONSTRUCTION PERIOD

Athens - Greece  
2007 - 2008

- | 3-storey building with pilotis
- | 3 apartments of 100m<sup>2</sup> each

PROJECT

BUILDINGS OF  
AGIOS KOSMAS  
OLYMPIC  
SAILING CENTER

LOCATION  
CONSTRUCTION PERIOD

Athens - Greece  
2001 - 2004

- | 20.000m<sup>2</sup> of administration, warehouse, shops and recreation building
- | Precast construction with prestressed concrete elements
- | Electromechanical installations







PROJECT

ILION  
SECONDARY  
SCHOOL

LOCATION  
CONSTRUCTION PERIOD

Ilion - Greece  
2004 - 2005

- | 500-student school
- | 4.200m<sup>2</sup> total area
- | 2.100m<sup>2</sup> landscaping
- | Basketball and tennis courts



PROJECT

METAMORFOSSI  
PRIMARY AND  
SECONDARY SCHOOL

LOCATION  
CONSTRUCTION PERIOD

Metamorfossi - Greece  
1995 - 1997

- | 350-student school
- | 3.000m<sup>2</sup> total area
- | Indoor gym and basketball court
- | Precast construction





PROJECT

NIKEA  
SECONDARY  
SCHOOL

LOCATION  
CONSTRUCTION PERIOD

Nikea - Greece  
1993 - 1995

- | 600-student school
- | 4.200m² total building area
- | 5.000m² landscaping

PROJECT

PERISTERI  
TECHNICAL  
EDUCATION  
SCHOOL

LOCATION  
CONSTRUCTION PERIOD

Peristeri - Greece  
1995 - 1997

- | 150-student school
- | 1.500m² total building area
- | 1.000m² landscaping



# INFRASTRUCTURE WORKS

H

MW

BW

IW





PROJECT

PERAMA  
STORM WATER  
DRAINAGE  
NETWORK

LOCATION  
CONSTRUCTION PERIOD

Perama - Greece  
2007 - 2008

| 10km of 1m diameter drainage pipes in the city



PROJECT

CAR TERMINAL  
CONSTRUCTION AT  
PIREAS PORT

LOCATION  
CONSTRUCTION PERIOD

Pireaus - Greece  
2004 - 2006

| 30.000m<sup>2</sup> heavy duty pavements  
| 400m of 6 by 4m double stormwater channel  
| 1.500m sewage channels



PROJECT

CONSTRUCTION OF  
NAVIPE SEWAGE  
NETWORK

LOCATION  
CONSTRUCTION PERIOD

Astakos - Greece  
2005 - 2006

- | 2.500m of 315mm polyethylene pipe
- | 600m offshore at maximum depth 20m



PROJECT

RHODES CITY  
SEWAGE OUTFALL

LOCATION  
CONSTRUCTION PERIOD

Rhodes Island - Greece  
1996

- | 400m of 500mm high density polyethylene pipe
- | Armouring with 10t stores at the surf zone
- | Pipe trench in rocky seabottom







PROJECT

ABELAKIA SEWAGE  
OUTFALL

LOCATION  
CONSTRUCTION PERIOD

Salamina Island - Greece  
2000

- | 3.000m of 1m high density polyethylene pipe
- | Pipe with continuous concrete ballast
- | Pipe placement at maximum depth of 30m

PROJECT

SANTORINI  
SEWAGE OUTFALL

LOCATION  
CONSTRUCTION PERIOD

Santorini Island - Greece  
2002

- | 300m of 350mm high density polyethylene pipe
- | Pipe placement at maximum depth of 15m





PROJECT

SEA WATER  
INTAKE PIPE  
AT ANTIKYRA

LOCATION  
CONSTRUCTION PERIOD

Antikyra - Greece  
2006

| Placement of 2m diameter GRP pipe

PROJECT

REPAIR OF ILIKI  
WATER TREATMENT  
PLANT INTAKE PIPE

LOCATION  
CONSTRUCTION PERIOD

Iliki Lake - Greece  
2005

| 1.200mm diameter intake pipe repairs





INFRASTRUCTURE  
WORKS

PROJECT

AKRATA IRRIGATION  
NETWORK

LOCATION  
CONSTRUCTION PERIOD

Akrata - Greece  
2006 - 2007

- | 6km of 1m diameter HDPE pipe
- | Pipe route through mountainous area



PROJECT

PENSTOCK PIPE  
FOR KERASOVO  
SMALL  
HYDROELECTRIC  
PLANT

LOCATION  
CONSTRUCTION PERIOD

Kerasovo - Greece  
2007-2008

- | 2km of 1m HDPE pipe
- | Pipe route through mountainous area





PROJECT

PSITTALIA  
OUTFALL PIPELINE

LOCATION  
CONSTRUCTION PERIOD

Psyttalia Island-Greece  
1990-1993

- | 4,2km of 2.95m diameter prestressed concrete pipe
- | Pipes floated and placed underwater at 60m maximum depth
- | Discharge of treated sewage of most Attica region (4 million people)
- | 72m segments (400t) slid from precast yard to the sea



PROJECT

COAL  
LADDER PORT

LOCATION  
CONSTRUCTION PERIOD

Pireaus - Greece  
2004 - 2006

- | 25.000m<sup>2</sup> concrete pavements
- | 2.000m sewage channel
- | 500m stormwater channel
- | Electromechanical installations







1

MICRO  
TRENCH  
EXCAVATION



2

PIPES INSTALLATION  
Cable laying  
including termination  
and splicing







3

POURING  
OF CONCRETE  
for pipes protection



4

REINSTATEMENT  
of asphalt pavement







ARCHIMEDES S.A.

155, Kimis St.  
141 21 Neo Iraklio  
Athens - Greece

Tel.: +30210 - 2852801  
Fax: +30210 - 2831075  
e-mail: [archimedes@archimedes-sa.gr](mailto:archimedes@archimedes-sa.gr)  
[www . archimedes - sa.gr](http://www.archimedes-sa.gr)