

Dam: Arriarán

Country Spain

River Arriarán

43°4'9.56"N 2°14'21.62"W

43.069321 -2.239339

Owner/Client Diputacion Foral de Gipuzkoa

Designer/Engineer INAR, S.A.

Contractor UTEPRESA (Various Basque companies)

Purpose (code) W

Site start 01.10.1991

RCC start 01.04.1992

RCC completion 30.09.1992

Site completion 28.02.1994

Height (m) 58

Length (m) 206

Volume of RCC ($m^3 \times 10^3$) 110

Total volume ($m^3 \times 10^3$) 113

Reservoir capacity ($m^3 \times 10^6$) 3

Upstream slope 0.05

Forming of upstream face (code) (3)

Downstream slope 0.70

Forming of downstream face (code) (3) *

Spillway slope 0.70

Forming of spillway face (code) (3) *

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 85

Pozzolan content (kg/m^3) 135

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0102

Under Construction



RCCDAM0102UC

Completed Dam



RCCDAM0102CD

Google Earth



RCCDAM0102GE

Guide to Abbreviations

Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
 - ' GEVR/GE-RCC
 - * Stepped face

Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines