| | | | |
|---|---|---|---|
| Dam: | Maroño | Country | Spain |
| River | Izoria and Idas | 43°2'53.35"N 3°3'19.55"W | 43.048153 -3.055431 |
| Owner/Client | Diputación Foral de Alava | | |
| Designer/Engineer | AEPO | | |
| Contractor | Dragados y Construcciones S.A. | | |

| | |
|---|---|
| Purpose (code) | W |
| Site start | 01.01.1989 |
| RCC start | 20.11.1989 |
| RCC completion | 31.08.1990 |
| Site completion | 30.11.1991 |
| Height (m) | 53 |
| Length (m) | 182 |
| Volume of RCC ($m^3x10^3$) | 80 |
| Total volume ($m^3x10^3$) | 91 |
| Reservoir capacity ($m^3x10^6$) | 2 |
| Upstream slope | 0.05 |
| Forming of upstream face (code) | (3) |
| Downstream slope | V<br>0.75 |
| Forming of downstream face (code) | (3) *<br>(3) * |
| Spillway slope | 0.75 |
| Forming of spillway face (code) | (1) * |
| Depth of layers (mm) | 300 |
| Depth of lifts (mm) | 300 |
| Cement content ($kg/m^3$) | 80<br>65 |
| Pozzolan content ($kg/m^3$) | 160<br>170 |
| Code for pozzolan | (F) |
| RCCDAM Unique Serial No. | RCCDAM0069 |

## Under Construction



RCCDAM0069UC

## Completed Dam



RCCDAM0069CD

## Google Earth



RCCDAM0069GE

# 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 |