

DEBRIS FLOW PROTECTION LERINI STREAM BAJRAM CURRI, KUKES, ALBANIA

Weirs, Culverts and Transverse Structures

Problem

Lake Komani in Bajram Curri, Albania, was constantly threatened by debris flow from Lerini-Salca stream, growing this way the water level in the lake and giving the dam additional and artificial charges, also separating the lake in two parts. The strong water flows generated this way were creating difficulties for the ship which sail in the lake.

Solution

After a fierce challenge against the competitor, Maccaferri Balkans won this project thanks to a mix of high performing technical solutions, cost effectiveness, designing and full supplying and technical support on the job site. The barriers installed are 3 Debris Flow Barrier 200 DF (200 KJ), one after the other 5 meters high, two of which are 20 m long, one 40 m long. The two 20m long DF barriers were fixed with 2 columns, the 40 m long one was installed with three columns, separating the length of the barrier in 4 pieces. Each horizontal meter of the Mac Ring Net was reinforced with wire rope diameter 22 mm. Maccaferri Ring Nets have the highest strengths of any mesh in the Mac.RO Systems range. With high strain performance, Ring Nets are ideal for situations where there is a high risk of dynamic impacts. Maccaferri Ring Nets can accommodate these high local stresses without sustaining damage. Upon impact with the debris flow, the DF Barrier progressively deforms due to compression release brake and the system absorbs energy. Maccaferri DF Barriers offer strength and high performance without the aesthetic intrusion of other debris flow systems.

Client: Korporata Elektroenergjitike Shqiptare (KESH)

Designer / Consultant: EBS sh.p.k, Tirane

Contractor: Korporata Elektroenergjitike Shqiptare (KESH)

Products used (Qty.)

- Debris Flow Barriers

100 m2 D.F.
Barrier 200KJ

Date of construction: 09/2015 - 12/2015

[Google Maps](#)

[Google Earth](#)



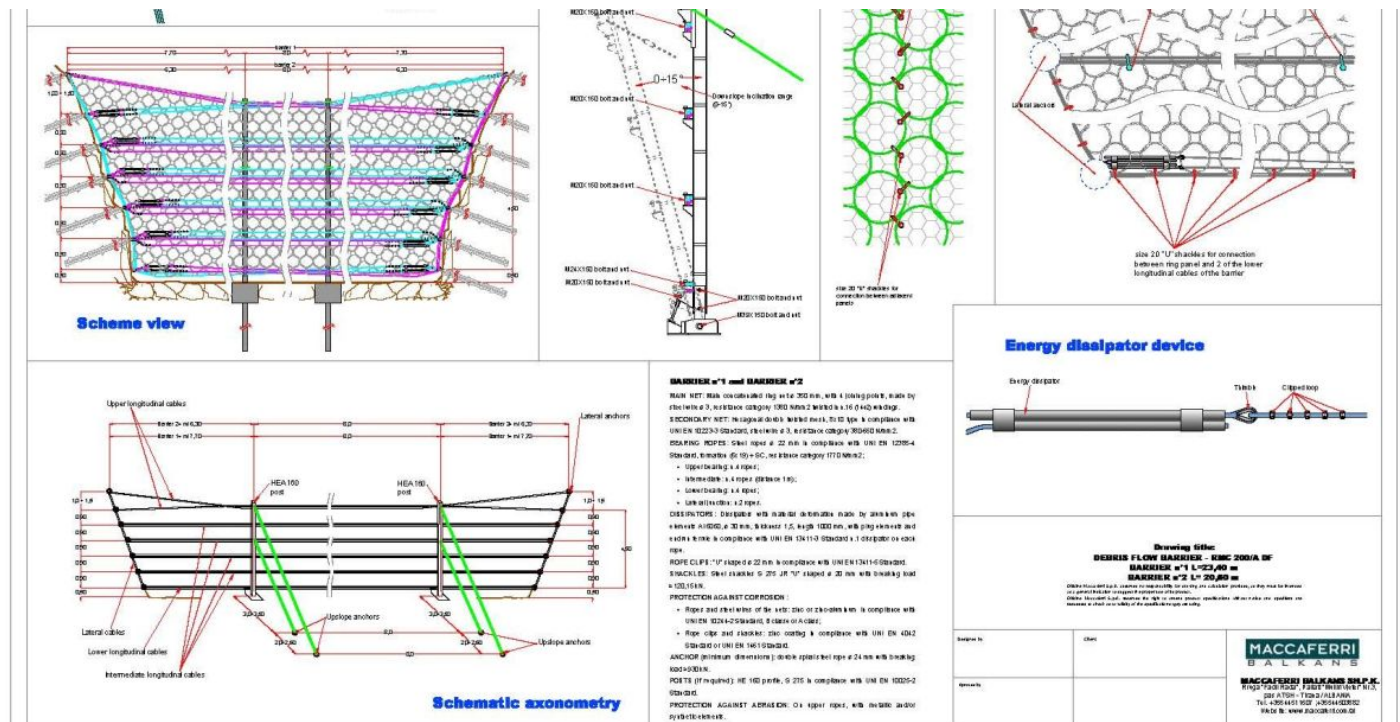
Debris Flow Barrier 200 KJ after installation



Debris Flow Barrier 200 KJ after installation



Debris Flow Barrier 200 KJ after installation



Scematic design