

Zumaia Footbridge



Zumaia Footbridge. Picture courtesy of Outokumpu.

Location:	Zumaia, Spain
Crosses:	river
Type:	truss bridge for pedestrians
Opened in:	2008
Materials:	duplex stainless steel EN 1.4462, Outokumpu
Stainless steel products:	truss
Architects:	PEDELTA
Photographs:	Picture courtesy of PEDELTA
More information:	outokumpu.com

History

The bridge, located in front of the sports arena, has improved the pedestrian flow between the two banks of the river. The municipality wanted to avoid

the use of automobile traffic in the area, improving the mobility of bicycles and pedestrians in the urban district. In this bridge's location, a town with a rich cultural memory and natural surroundings, a sensationalist, exhibitionist or superfluous

structure would not fit. The idea is to design a bridge that enhances the natural value of the river and understands its environment, instead of creating a useless or pointless landmark.



Why stainless steel?

Pedelta's proposal is a pure and sober structure, but with an innovating and challenging spirit. The bridge crosses a 28m long channel and has a 5m wide deck. The structural outline is clear and conceptually very simple: two Vierendeel trusses which function as a guardrail and where the lateral lighting and handrail is integrated. Pure simplicity. It is the first bridge structurally combining two high performance and corrosion-resistant materials: stainless steel and glass fiber reinforced polymers (GFRP).

Pedelta received the Civil engineering mention award (2nd Prize) in Construmat Exhibition for the Zumafia hybrid (Stainless steel and GFRP) footbridge (2009).

