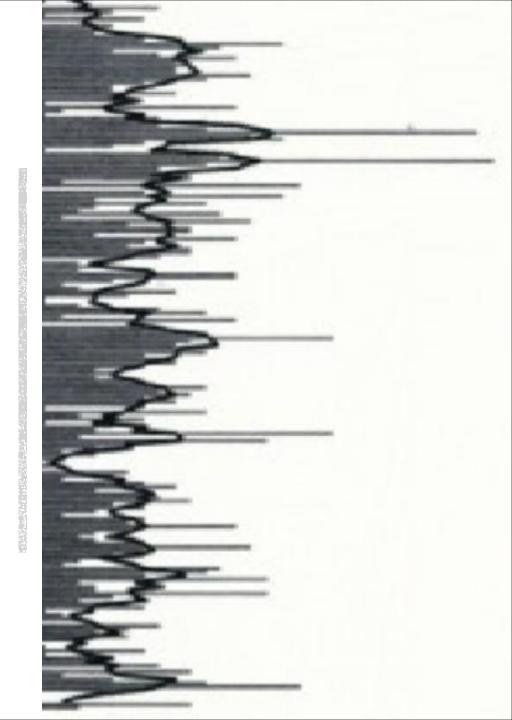
## CIMENA FOOTBRIDGE

Feliciello Eleonora s253449 Peluffo Simone s251956 Xiao Siyu s252651 Xie Wanyi s252394



OBJECT: footbridge

LOCATION: Canale Cimena, Po river wing (San

mauro Torinese)

AIM: connecting the two banks so that is possible to give a path in between the facilities of the area

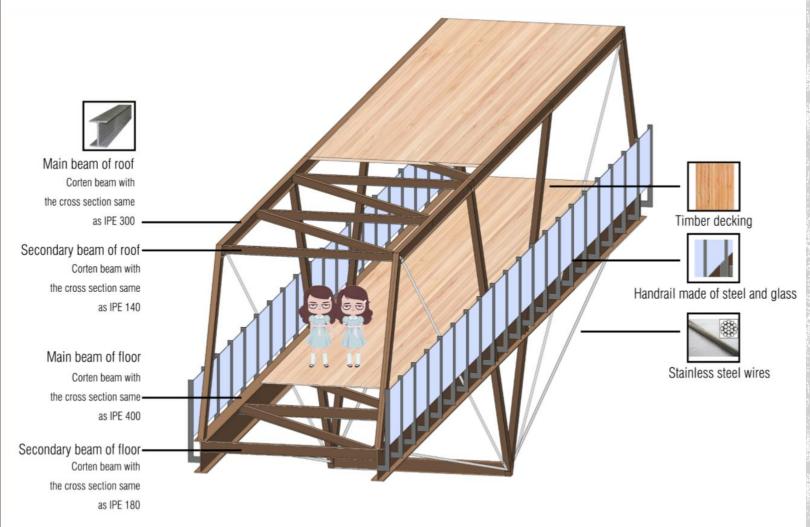
STRUCTURE: inspired reverse cable-stayed structure

ROOF: included, since Turin is under an high frequency of rainfall and snowfall

MATERIALS: corten steel, steel, stainless steel, timber and glass







## Why corten?

Weathering Steel is an alloy steel formulated for primary forming into wrought products. Cited properties are appropriate vfor the hot worked condition.

It has a moderately low embodied energy among EN wrought alloy steels. In addition, it has a moderately low thermal conductivity, relatively high tensile strenght nd a good corrosion resistance.

Beinell Hardness = 170	Elastic Modulus = 190GPa
Elongation at Break = 16%	Fatigue Strength = 260Mpa
Impact Strength: V-Notched Charpy = 30J	Possion's Ratio = 0.29
Shear Modulus = 73GPa	Shear Strength = 350MPa
Tensile Strength Ultimate = 580 MPa	Tensile Strength: Yield = 390MPa

