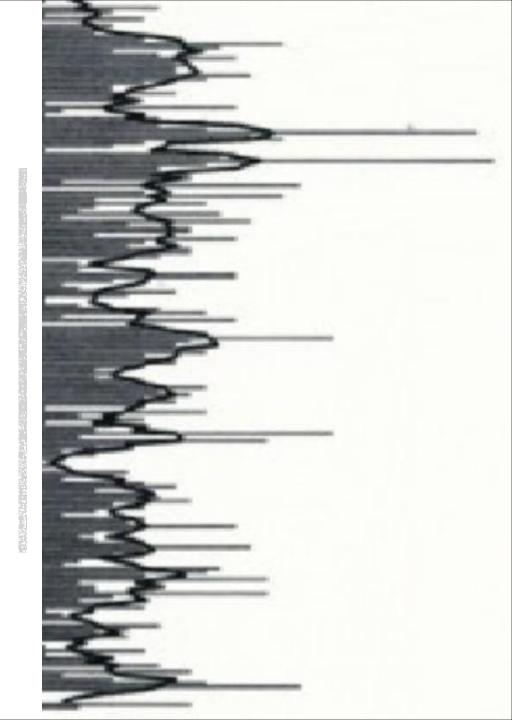
CIMENA FOOTBRIDGE

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

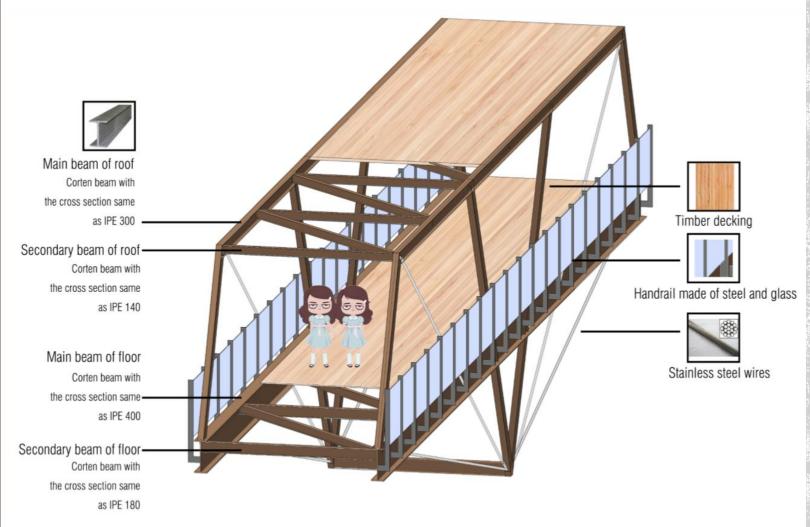
STRUCTURE: inspired reverse cable-stayed structure

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

