

Location

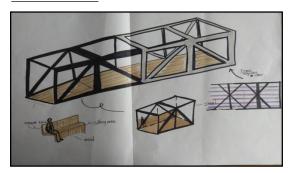


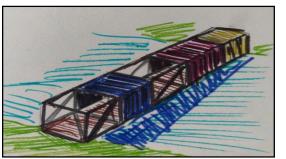
Footbridge is locationed in Nichelino (Piemonte) creates a passage between two parks, Parco Piemonte and Parco Boschetto on the Sangone River. (315.78 / 20.11 m)

The total span of the bridge is 20 m long. Consists of 5 simple structures with a length of 4 meters.



Sketches





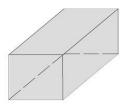
References

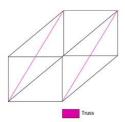


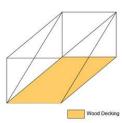


Each year 800.000 containers are de-utilized from the marine service. The idea of the bridge was inspired by the recycled shipping containers. The Ariel Sharon National Park Yoav bridge project by Messer Architects is located in Tel Aviv that is formed by 80 containers.

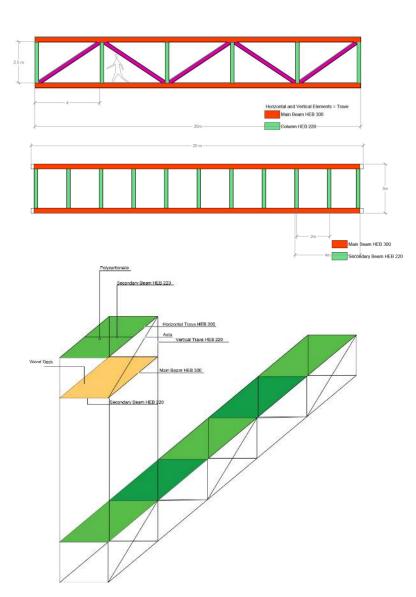
Materials











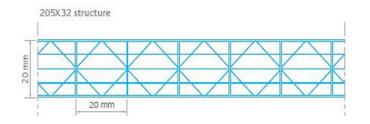
Beam Types:

Identification	Nominal weight 1m	Nominal dimensions				ns	Cross- section		Dimer	nsions for (Surface			
		b	h	s	t	r	Α	h1	d	Ø	pmin	pmax	AL	AG
	kg/m	mm			cm2	mm	mm		mm		m2/m m2/m			
HEB 220	71,5	220	220	9,5	16	18	91,0	188	152	M27	100	118	1,270	17,77
HEB 450	171	300	450	14	26	27	218,0	398	344	M27	124	198	2,026	11,84

Identification	Section properties, static data												
		stron	ng axis x-	x									
	lx	Wel.x	Wpl.x	ix	Avy	Sx	ly	Wel.y	Wpl.y	iy	Ss	It	lw
	cm4	cm3	cm3	cm	cm2	cm3	cm4	cm3	cm3	cm	mm	cm4	cm
HEB 220	8091	735,5	827,0	9,43	27,92	414	2843	258,5	393,9	5,59	62,59	76,57	295,4
HEB 450	79890	3551	3982	19,14	79,66	1990	11720	781,4	1198	7,33	97,63	440,5	5258

Primary beam : HEB 450 Secondary beam : HEB 220

Roof Polycarbonate



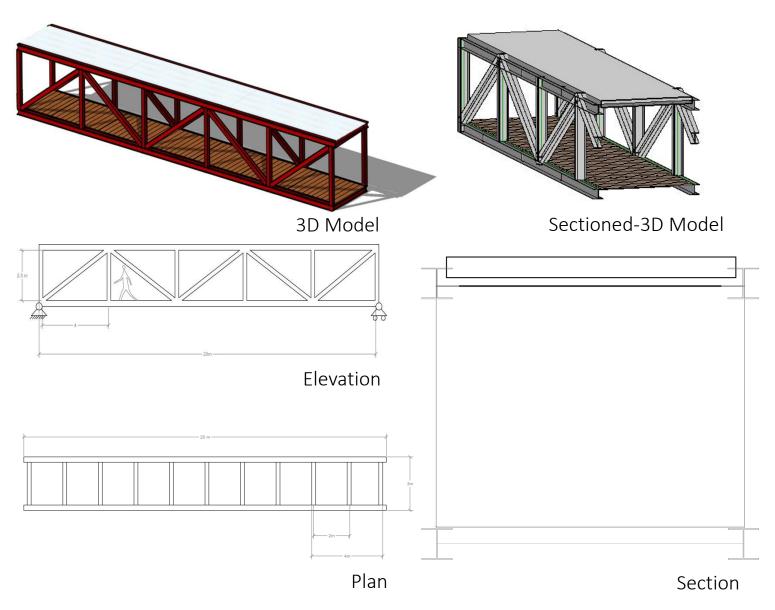




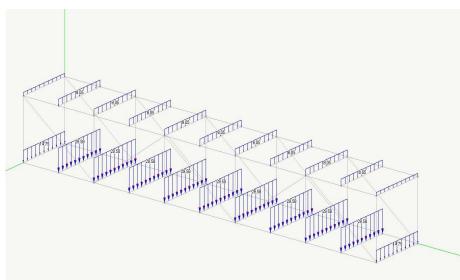




Drawings



Loads

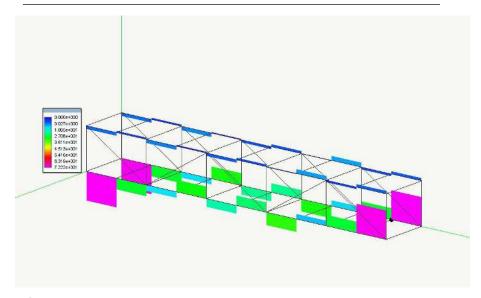


Snow Load S=µi x Ce x Ct x Sk Ce x Ct = 1 (from Table 5.1 1991.1.3:2003) µi = 0,8 (from Table 5.2 1991.1.3:2003) Sk= 1,5 kN/ m2 S= 1,2 kN / m2

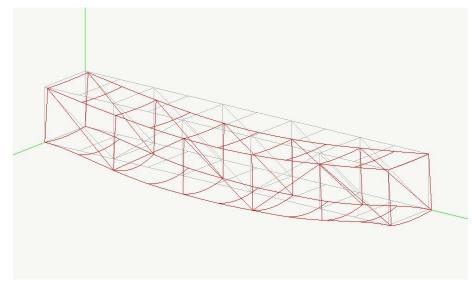
Imposed Loads
Category C4: Areas with possible physical activities

4.5-5.0 kN/m2

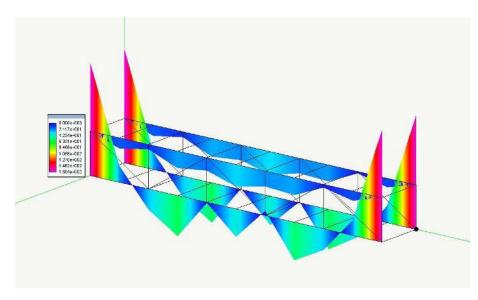
Nolian Calculations



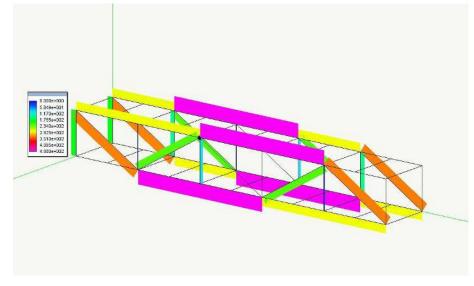
Shear Forces



Deformation



Moment



Axial Forces

