

TILLER OST BRIDGES (NORWAY)

In collaboration with
Degree of Freedom



SUSTAINABILITY
CARBON FOOTPRINT ANALYSIS

PROJECT DESCRIPTION

- Harald Bridge:

Prestressed concrete bridge over Harald Street for a 4 m wide pedestrian overpass with a length of 49 m.

- John Bridge:

Concrete bridge over John Street for the overpass of the ski slope with a width of 5.5 m and a length of 34 m.

COMMON DATA ENVIRONMENT (CDE)

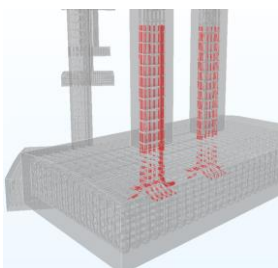
- Comprehensive management of project information exchange via Trimble Connect in accordance with PAS1192

BIM

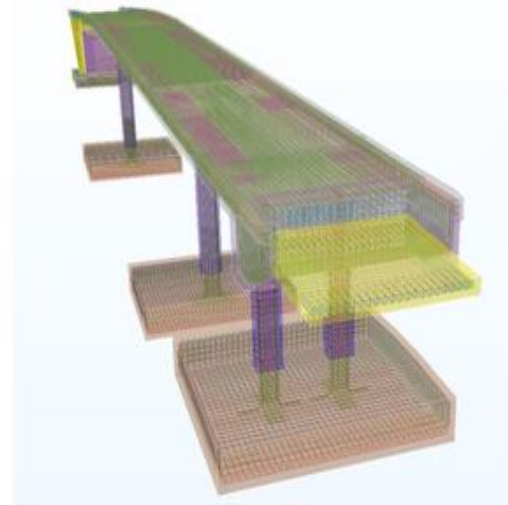
- Modeling existing conditions
- Modeling existing services
- LOD400 Digital Manufacturing
- 3D coordination and 2D drawings
- Carbon footprint analysis of solution
- Coordination strategy and model review

SUSTAINABILITY

- Carbon footprint integration and analysis in the decision-making process



Pos.	Var	Antall	Kval.	Dia.	Korr. lengde	Vekt/stk.	Vekt	Form	Krok Start	Krok Slutt	A	B	C
a2100	1	28	B500NC	25	3320	12,8	358,7	21	0	0	575	2350	575
a2101	1	19	B500NC	25	5170	19,9	298,8	21	0	0	545	4250	545
a2102	1	24	B500NC	32	2455	15,5	372	11	3	0	2270	300	



GS BRU	Total Embedded Carbon Footprint	346984	kg Co2 eq
	Embedded Carbon Footprint	1,836	Tons. Co2 eq/m ² of deck
	Bridge Length (m)	54	
	Bridge Width (m)	3,5	
	Total Deck Area	189	m ²

