



Strength calculation and mechanical design of a gauge change ramp



Customer: CEREC Engineering / End customer MBC, Switzerland

Project tasks:

- Analysis of the design
- Strength calculation of the construction

Other Information:

MBC is a railway operator in western Switzerland which has both a metre gauge network and a standard gauge network. The transfer of goods and vehicles from one railway network to another is challenging and associated with complex processes and risks.

Project specification

MBC "Transports de la région Morges-Bière-Cossonay" would like to renew the gauge change ramps in Morges (Vevey system) in the next few years. These facilities are equipped with roller blocks, which make it possible to use standard gauge vehicles on MBC's metre gauge network.

The construction of the new ramp was handed over to CEREC Engineering. CEREC Engineering drew up the construction plans and commissioned PROSE to ensure the strength of the construction and to propose appropriate advice for improving the strength.

Our approach

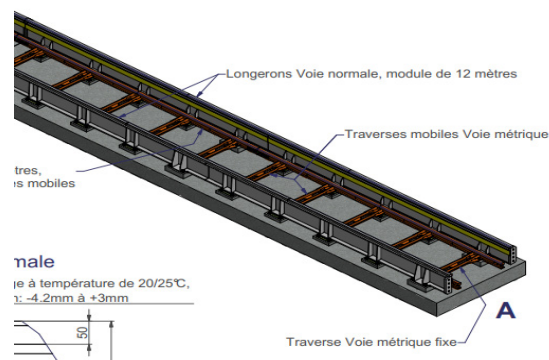
PROSE assembled a team of experienced experts from the fields of construction and strength. A workshop was held at the beginning of the project to precisely define the expectations of CEREC Engineering and MBC. The design of the ramp is discussed with CEREC Engineering and the strength is verified accordingly.

Customer benefit

Both CEREC Engineering and MBC do not have the expertise in the field of strength, but PROSE's know-how allows them to manufacture the new ramps according to their requirements. In a team with CEREC Engineering, the end customer MBC can be offered a lean and target-oriented solution.

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