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PRE Project Pipe bridge over the Swiss A4 motorway, 2025

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Project

For the expansion of WWZ AG and its Ennetsee heating network, a 48-metre-long truss bridge was constructed over the A4 motorway using the PREMANT plastic-coated pipe system from BRUGG Pipes AG. The solution comprises thermally insulated media pipes with corrosion-protected jackets, designed for bridge applications with thermally induced length changes and dynamic loads (pipe weight approx. 4.9 t without water). Fixed points and slide bearings were integrated to absorb movements in a controlled manner.

Execution

The installation was carried out in three pre-stressed segments, which were lifted into place at night on the A4 motorway – with strict traffic and safety coordination. The planning and installation was carried out by the specialist company Hodel SHLK AG in collaboration with B+S AG, with technical support from BRUGG Pipes.

The bridge crossing completes a central pipeline axis of the heating network. This will enable waste heat from the waste incineration plant to be used efficiently in the region in future – an important step towards regional decarbonisation.

