

Viaduct St. Kilian – Schleusingen, Germany



Type: Highway

Location: Schleusingen, Germany

Completion Date: December 2006

Owner: Deges GmbH

Engineering: Weyer Beratende Ingenieure GmbH

Steel Fabricator: MCE Stahl und Maschinenbau
GmbH & Co

- Spans: $55.35 + 5 \times 61.5 + 49.2 + 36.9 = 448.95$ m
- Supporting structure: three-chord truss system below each carriageway with one bottom chord and steel tube diagonals combined with the carriageway slab into a composite section
- Slab thickness: 1.06m near the top chords and the diagonals, 32cm at the centre of the slab and of 23cm at the sides
- Visible bottom chords and diagonals: produced from hot-finished seamless tubes (material S355 J2H)
- Top steel chords encased in concrete (material S355 J2G3)
- Bottom chord truss with cast joints (material GS°20Mn5v)
- Truss geometry required production of 210 cast joints, which comprised eight basic types of joints
- The carriageway slab (concrete quality C45/55) was pre-stressed longitudinally

