

A2 Determination of creep and shrinkage values on an example composite highway bridge

1. Purpose of example

The values of creep and shrinkage of the concrete deck slab of a composite highway bridge are calculated at different time periods in the age of the concrete. For the corresponding values of creep and shrinkage and types of loading, the corresponding values of modular ratio, n_L , and the shrinkage strains are determined. Also, the primary effects of shrinkage are calculated. In the example, the following cases are considered:

- calculation of the modular ratio n_L for permanent action not changing with time. Two ages are considered: the first loading, which is applied at the age of $t_0 = 28$ days, and the end of the design life, for which it is assumed that $t = \infty$.
- calculation of the modular ratio n_L for permanent action not changing with time at bridge opening. Two ages are considered: the age at which the permanent actions are imposed, which is 28 days ($t_0 = 28$ days), and the age at opening to traffic, which is 63 days ($t = 63$ days).
- calculation of the modular ratio n_L for shrinkage at $t = \infty$ and the value of the total shrinkage deformation at $t = \infty$ denoted as $\varepsilon_{cs}(\infty)$. The age of concrete at the first loading is $t_0 = 1$ day (the beginning of drying shrinkage).
- calculation of the modular ratio n_L for shrinkage at bridge opening, for which the age is 63 days ($t = 63$ days) and the value of the total shrinkage deformation at $t = 63$ denoted as $\varepsilon_{cs}(63)$. The age of concrete at the first loading is $t_0 = 1$ day (the beginning of drying shrinkage).
- calculation of the primary effects of shrinkage only for the long-term situation.

2. Cross-section

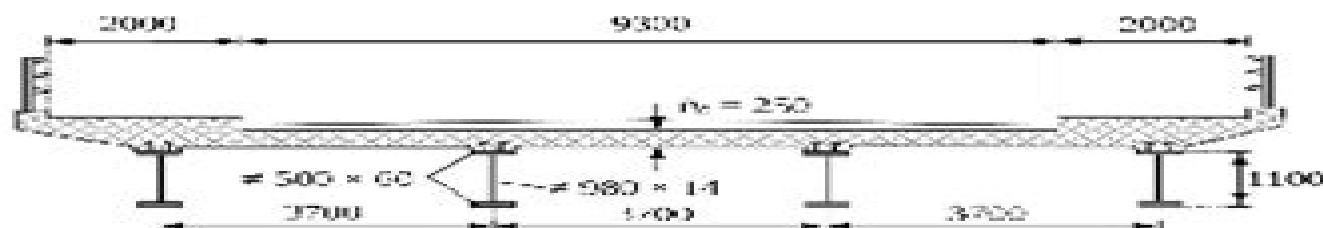


Figure A2.1 Cross-section of composite bridge

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DJ Losen



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