



STEELS TABLE

REINFORCING STEEL:

- B500C (welded)
- Bending diameter R_b :
- $R_b < \phi 20 \rightarrow R_b = 6\phi$
- $R_b \geq 20 \rightarrow R_b = 8\phi$

Legend for diagrams:

- ϕ = diameter
- R = bending radius
- S = length
- H = height
- d = depth
- $d/2$ = half depth

MATERIAL TABLE

TUNNEL INNER CONCRETE:

- Type C25/30
- Water/cement ratio < 0.50
- Minimum structural class S3/S4
- Current type C24 III/V to environmental conditions: XE2
- Class of chloride content Cl 0.20
- Min. aggregate = 12 mm

TUNNEL CROWN CONCRETE:

- Type C15
- $R_k \geq 20$ MPa
- Minimum structural class S4/S5
- Current type C14 III/V to environmental conditions: XE2
- Class of chloride content Cl 0.20
- Min. aggregate = 12 mm

REINFORCING STEEL:

- B500C controlled by endorsement
- Weldable

INNER CONCRETE:

- Type I
- $R_k \geq 12$ MPa
- Current type C14 III/V

LEGEND

RP = REFERENCE PLANE
 EX = EXCAVATIONS PLANE
 PC = CENTERS PLANE

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OBBERMEYER
 JOHANN SEBASTIAN SMITH

SUBCONSULTANT / SUBCONSULTANT

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