



STEELS TABLE

REINFORCING STEEL

- B500C (welded)
- Binding diameter ϕ_b
- ϕ Bar < ϕ_{20} -> $\phi_b = \phi_a$
- ϕ Bar $\phi_{20} - \phi_{28}$ -> $\phi_b = 8a$

Legend measures:

MATERIAL TABLE

TUNNEL INNER CONCRETE

- Type C20/25
- Water/cement ratio <math>< 0.50</math>
- Minimum structural class S3/S4
- Current type C24 II/V to environmental conditions: XE2
- Class of chloride content Cl 0.20
- Min. aggregate = 12 mm

TUNNEL CROWN CONCRETE

- Type C15
- Rk 3 = 20 MPa
- Minimum structural class S4/S5
- Current type C12 II/V to environmental conditions: XE2
- Class of chloride content Cl 0.20
- Min. aggregate = 12 mm

REINFORCING STEEL

- B500C controlled by endorsement
- Weldable

ERN CONCRETE

- Type I
- Rk 3 = 12 MPa
- Current type C14 II/V

LEGEND

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

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|--------------------------------------|------|-------------------|------------|------------------------------|----------------|
| CLIENT / CLIENT | | CFR | | CN.C.F. "C.F.R." S.A. | |
| CONSULTANT / CONSULTANT | | OBBERMEYER | | TECNIC | |
| SUBCONSULTANT / SUBCONSULTANT | | | | | |
| Index | Date | Modificator | Proiectant | Aprobat Comisar | Aprobat C.F.R. |
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |

CLIENT / CLIENT
ROMANIA GOVERNMENT
EUROPEAN UNION FINANCED PROJECT

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Scale
 1:100

Sheet / Sheet
 01 of 05