

STANDARD SPECIFICATION TEXT

Minimum specification points:

1. Fibres

- Fibres to comply with European Standard EN 14889-1
- Fibres with CE marking
 - Fibres out of drawn wire, with a tensile strength of steel wire > 1.000 MPa min.
 - Dimensional tolerances according to EN 14889-1
 - Fibre length: 30 or 35 mm

2. Performance

- Minimum total wire length/m³ should be 10.000 ml (in situ) in order to guarantee the minimum network effect.
- Minimum overlap according to McKee Theory (l/d 65=16 kg/m³ in situ, l/d 55 =23 kg/m³ in situ, l/d 40=43 kg/m³ in situ).
- The minimum class should be E 700 (700 joules minimum) for a C30/37.
- When an additional requirement for the residual strength is required:
 - Minimum residual strength S3D1 for a reference concrete C30/37
Strength level > 3 MPa for a deflection of 1 mm max

3. Fibre concrete

- Glued fibre for optimal pumpability and to ensure a good distribution and homogeneity in the concrete.
It is prohibited to use loose steel fibres that cause balls during mixing.
- Type of concrete: class C30/37

4. Quality

- Performance and control criteria should be specified following the EN 14487-1, taking account the requirement of the project.