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is defined as an

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concrete beam
according to the
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concrete column

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other European
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lightly

reinforced

concrete members

1.5.2.3 Unbonded
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Prestress 1.6

Symbols 2. Basis
of design 2.1

Requirements

2.1.1 Basic

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Reliability

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design 2.3 Basic

variables

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more than
notional aspects
of the presented

topics, focusing
on the

verifications of
assumptions, the
rigorousness of
the analysis and

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the consequent
degree of
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concrete
material
properties
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EN1992-1-1 Unit weight γ_c . The unit weight of concrete γ_c is specified in EN1991-1-1 Annex A. For plain unreinforced concrete $\gamma_c = 24$ kN/m³. For concrete with normal percentage of reinforcement or

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prestressing

steel $\sigma_s = 25$

kN/m $3 \dots$

Characteristic

compressive

strength f_{ck} .

The

characteristic

compressive

strength f_{ck} is

the first value

\dots

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*of concrete
design*

properties

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and Figure 3. BS

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section 7.4.

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capacity. How to

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section 6.2.
Check spacing of
bars. How to
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By considering vertical equilibrium on a section perpendicular to the line of the concrete strut it can be shown that the design shear force limited by compression in the concrete is:

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$V_{Rd,max} = ? \cdot c_w$
 $b_w \cdot z \cdot 1 \cdot f_{cd} \cdot (\cot \alpha + \cot \beta) / (1 + \cot^2 \alpha)$

[Clause 6.2.3(4)
equation (6.14)]
where: f_{ywd} =
design yield
strength of the
shear
reinforcement

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