

Glossary

f_{ck} = Characteristic compressive strength of concrete in N/mm^2

f_y = Characteristic tensile strength of steel in N/mm^2

γ_m = partial safety factor

E_s = modulus of elasticity of steel

Partial safety factor for Concrete γ_m : 1.5

Partial safety factor for steel γ_m : 1.15

C_u = total compressive force offered by the concrete

T_u = total tensile force offered by the steel

A_{st} = Area of tensile steel

x_u = actual depth of neutral axis

$x_{u\lim}$ = limiting value of depth of neutral axis

Characteristic strength of materials: Characteristic strength of materials is the strength of materials below which not more than 5% test results are expected to fall.