

## Minimum Shear Reinforcement For Optimum Ductility Of

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The influence of shear reinforcement on the ductility of RC beams of varying sizes has been investigated. The optimum shear reinforcement index has been found to be somewhere between 0.45 and 0.5. Ductility of RC beams increases with increasing the shear reinforcement index.

### ~~CiteSeerX \u25a0 MINIMUM SHEAR REINFORCEMENT FOR OPTIMUM ...~~

Minimum shear reinforcement for optimum ductility of by ... (1) The diameter of the transverse reinforcement (links, loops or helical spiral reinforcement) should not be less than 6 mm or one quarter of the maximum diameter of the longitudinal bars, whichever is the greater. The diameter of the wires of welded mesh fabric for transverse ...

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$$\rho_w = A_{sw} / (s \cdot b_w \cdot \sin \alpha) \quad (9.4)$$
 where:  $\rho_w$  is the shear reinforcement ratio.  $\rho_w$  should not be less than  $\rho_{w,min}$ .  $A_{sw}$  is the area of shear reinforcement within length  $s$ .  $s$  is the spacing of the shear reinforcement measured along the longitudinal axis of the member.  $b_w$  is the breadth of the web of the member.

### ~~EC2: Minimum shear reinforcement | CIVIL CALCULATION~~

The minimum shear reinforcement specified by the codes of practice is intended to ensure that the strength of a member after cracking exceeds the load at which the diagonal cracking occurs or in other words for a beam with the given geometry and materials the minimum shear reinforcement is necessary to increase the shearing strength of the beam to a value  $\rho_w V$  greater than that of the cracking strength,  $V$

### ~~Evaluation of minimum shear reinforcement in reinforced ...~~

Check against minimum steel =  $(0.4 u_1 d) / (0.87 f_{yv}) \rho_w$ . (altering  $u_1$  to  $u_2$ , etc accordingly) Note: Asvis for TWO perimeters of studs / links at a maximum of 0.75d centres. The first perimeter of studs located at 0.5d should contain at least 40% of the calculated area of the reinforcement required in  $u_1$ .

### ~~Design Manual to BS8110 - Link Stud PSR~~

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the minimum shear reinforcement ratio  $\rho_{w,min} = A_{sw} / (s \cdot b \cdot w \cdot \sin \alpha) = (0.08 \cdot f_{ck}) / f_{yk}$  Clause 9.2.2(6) says the spacing (s) of the shear links should not exceed  $s_{l,max} = 0.75d(1 + \cot \alpha)$  where:  $A_{sw}$  = area of shear reinforcement in length s (one link with 2 legs = 2 x leg area) s = spacing of links measured along the axis of the member

### ~~Bridge Design Reinforced Concrete Bridge Beam Design ...~~

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### ~~Minimum Shear Reinforcement For Optimum Ductility Of~~

Compression reinforcement in beams is provided with stirrups for effective lateral restraint. Minimum shear reinforcement in the form of stirrups shall be calculated using, 2.Slabs: For MS bars, reinforcement in either direction in slabs shall not be less than 0.15% of the total c/s area.

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