

# Reinforced Concrete

Design Theory and Examples

Second Edition

T.J. MacGINLEY  
and  
B.S. CHOO

BS8110

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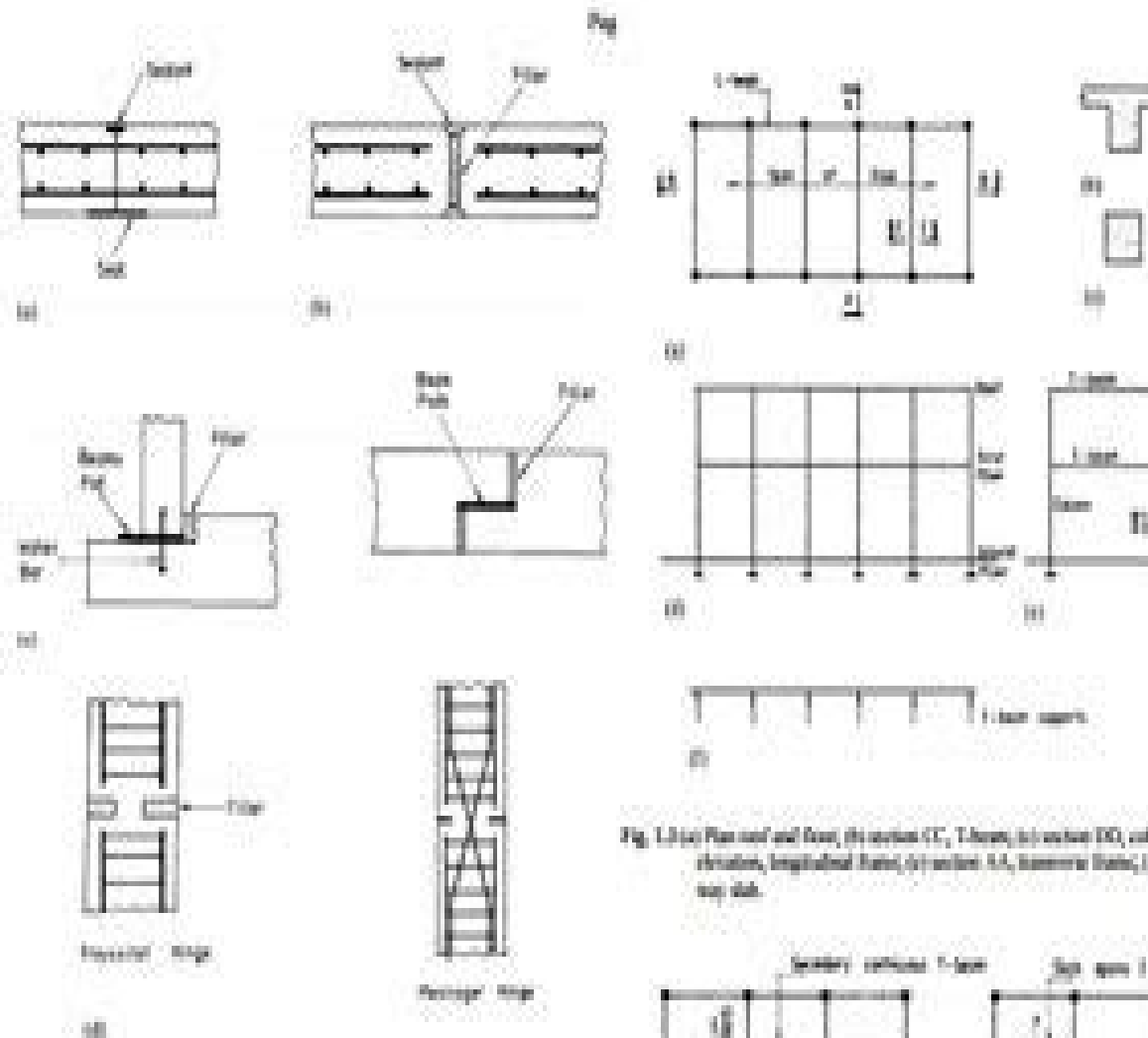


Fig. 1.1 (a) Pinned construction joint, (b) expansion joint, (c) sliding joint, (d) hinge joint

## (a) Overloading

Extreme overloading will cause cracking and eventual collapse. Factors of safety in the original design allow for possible overloads but vigilance is always required to ensure that the structure is never grossly overloaded. A change in function of building or route can lead to overloading, e.g.

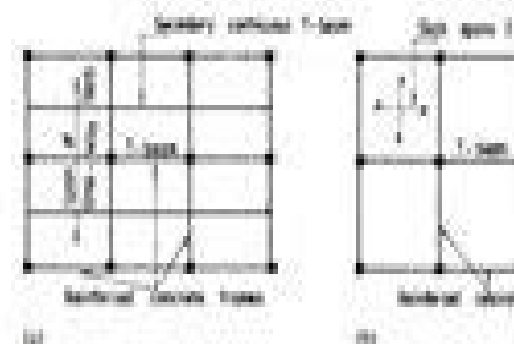


Fig. 1.2 (a) Two-way floor slab, (b) two-way floor slab

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