



Where we provide Laps in Beam


Structural Guide

Type of Reinforced Concrete Beams

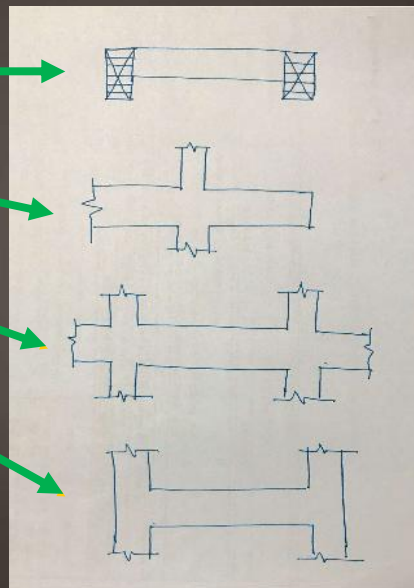


Simply Support

Cantilever

Continuous

Restrain



Rule for Lapping

Avoid/Minimize tension zone for lapping as much as possible

Tension lap

Compression lap

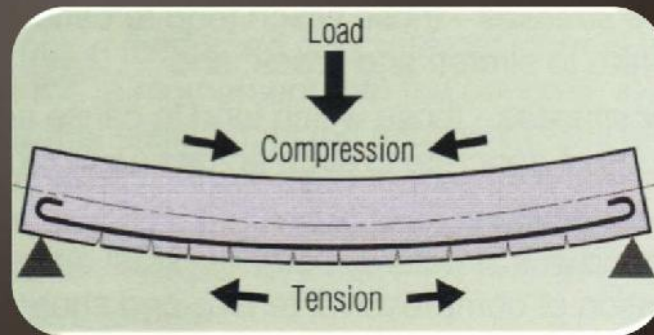
Simply Supported Beam

No restrains at ends or very small restrain

Maximum Bending at mid-span

Maximum Shear at Supports

Tension is at the bottom therefore avoid lapping at the bottom in mid-span

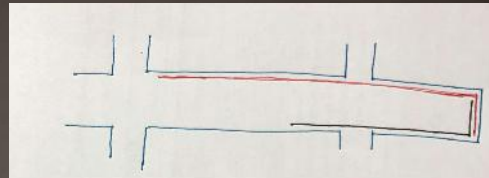


Cantilever Beam

Beam one end is free

Other end is supported by a column or any other element

Avoid lapping at support where the tension is

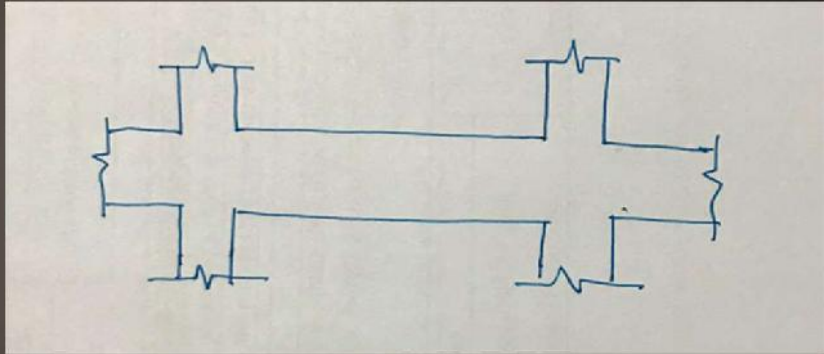


Continuous Beam



Beams that continue over across the support

Avoid lapping at support where the tension is



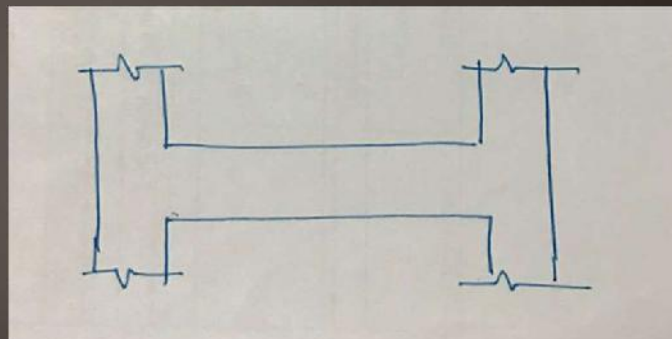
Restrained Beam



Beams supported on Columns

Based on the stiffness of the column, the hogging moment increases.

Shall not be detailed as simply support beam



Thank you



Structural Guide

Civil & Structural Engineering Knowledge Base