

RAM Concrete Beam Design Criteria



Reinforcement Bar Selection Design Checks/Forces

Clear Bar Spacing (in)

Shear

Max: ☒ Code ☐ Use

Min: ☒ Code ☐ Use

Flexure

Max: ☒ Code ☐ Use

Min: ☒ Code ☐ Use

Clear Bar Cover (in)

Top: ☒ Code ☐ Use

Bottom: ☒ Code ☐ Use

Side: ☒ Code ☐ Use

Cover to Center of Bars (in)

Gravity Beams

1 Layer 2 Layers

Top:

Bottom:

☒ Allow 2 Layers

Bar Sizes to Consider for Design

Longitudinal:

- ☐ #3
- ☒ #4
- ☒ #5
- ☒ #6
- ☒ #7
- ☒ #8
- ☒ #9
- ☒ #10

Transverse:

- ☒ #3
- ☒ #4
- ☐ #5
- ☐ #6
- ☐ #7
- ☐ #8
- ☐ #9
- ☐ #10

Longitudinal Reinf. Ratio (flexure only)

Max: ☒ Code ☐ Use

Min: ☒ Code ☐ Use

Lateral Beams

1 Layer 2 Layers

Top:

Bottom:

OK

Cancel

Help