STATE OF ILLINOIS

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 400 MPa yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- (1) Caristies the following requirements: Minimum Capacity (Tension in kN) = 1.25 x 10⁻³x fy x A₁
 (Tension in kN) = 1.25 x 10⁻³x fs allow x A₁
 (Tension in kN)
- Where fy = Y led strength of lapped reinforcement bars in MPa.
- fsallow= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load) A_{t} = Tensile stress area of lapped reinforcement bars (mm²). * = 28 day concrete

| | BAR SPLIC | ER ASSEMBLI | IES |
|---------------------------|------------------------------------|-------------------------------|--|
| Bar Size to be Spliced | Splicer Rod or Dowel Bar Length | Strength Requirements | |
| | | Min. Capacity kN - tension | Min. Pull-Out Strength kN - tension |
| #15 | 610 mm | 100 | 40 |
| <i>#20</i> | 790 mm | 150 | 60 |
| #25 | 1.04 m | 250 | 100 |
| #30 | 1.37 m | 350 | 140 |







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