

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS." All dimensions are in millimeters (mm) except as noted.

INSTALLATION AND SETTING METHODS "A" : Set bar splicer assembly by means of a template bolt, "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

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Washer Face <u>"B"</u>



ROUTE ND.	SECTION	co	UNTY	TOTAL SHEETS	SHEET NO.	SHEET	ND. S39
FAU 2783	1314B	C	оок	160	117	540 she	ETS
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CONTRACT	60293		1			<u>ل</u> م	

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

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: Cer assembly satisfies the formula (1, 2, 5, 5) and (1, 2, 5) and (2, 5) and (2, 5) and (3, 5) and

(Tension in kN)

(rension in KN)
LCOALCATS allow X A₁
Where fy = Yield strength of lapped reinforcement bars in MPa.
fs_{allow}= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)
A₁ = Tensile stress area of lapped reinforcement bars (mm²).
*** = 28 day concrete

28	day	concrete
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Bar

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BAR SPLICER ASSEMBLIES					
		Strength Requirements			
	Splicer Rod or Dowel Bar Length	Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension		
<i>#1</i> 5	610 mm	100	40		
#20	790 mm	150	60		
#25	1.04 m	250	100		
#30	1.37 m	350	140		
<i>#3</i> 5	1.98 m	500	200		

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	REVISION	S	ILLINOIS DEPARTMENT OF TRANSPORTATION		
	NAME	DATE	F.A.I. 90 (I-90)		
			AT NAGLE AVENUE		
			F.A.U. RTE. 2783 SEC 1314B		
			COOK COUNTY STATION 0+998.813		
			STRUCTURE NO. 016-0708		
			BAR SPLICER DETAILS		
			DAR SPLICER DETAILS		
			DRAWN BY KAC		
· ·			CHECKED BY LDB/DGS DATE: DEC. 2004		
			27240122		