



[Fema Nonlin Software Free Download](#)

Conditions	Modeling parameters ³			Acceptance criteria ³			
	Plastic rotation angle, radians	Residual strength ratio	Plastic rotation angle, radians				
			Performance level				
	a	b	c	IO	Component type		
					Primary	Secondary	
				LS	CP	LS	CP

i. Beams controlled by flexure¹

$\frac{\rho - \rho'}{\rho_{bal}}$	Transverse Reinforcement ²	$\frac{V}{b_w d \sqrt{f'_c}}$								
≤ 0.0	C	≤ 3	0.025	0.05	0.2	0.01	0.02	0.025	0.02	0.05
≤ 0.0	C	≥ 6	0.02	0.04	0.2	0.005	0.01	0.02	0.02	0.04
≥ 0.5	C	≤ 3	0.02	0.03	0.2	0.005	0.01	0.02	0.02	0.03
≥ 0.5	C	≥ 6	0.015	0.02	0.2	0.005	0.005	0.015	0.015	0.02
≤ 0.0	NC	≤ 3	0.02	0.03	0.2	0.005	0.01	0.02	0.02	0.03
≤ 0.0	NC	≥ 6	0.01	0.015	0.2	0.0015	0.005	0.01	0.01	0.015
≥ 0.5	NC	≤ 3	0.01	0.015	0.2	0.005	0.01	0.01	0.01	0.015
≥ 0.5	NC	≥ 6	0.005	0.01	0.2	0.0015	0.005	0.005	0.005	0.01

ii. Beams controlled by shear¹

Stirrup spacing $\leq d/2$	0.003	0.02	0.2	0.0015	0.002	0.003	0.1	0.02
Stirrup spacing $\geq d/2$	0.003	0.01	0.2	0.0015	0.002	0.003	0.005	0.01

iii. Beams controlled by inadequate development or splicing along the span¹

Stirrup spacing $\leq d/2$	0.003	0.02	0	0.0015	0.002	0.003	0.1	0.02
Stirrup spacing $\geq d/2$	0.003	0.01	0	0.0015	0.002	0.003	0.005	0.01

iv. Beams controlled by inadequate embedment into beam-column joint¹

	0.015	0.03	0.2	0.01	0.01	0.015	0.02	0.03
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Notes:

1. When more than one of the conditions i, ii, iii, and iv occurs for a given component, use the minimum appropriate numerical value from the table.
2. "C" and "NC" are abbreviations for conforming and nonconforming transverse reinforcement. A component is conforming if, within the flexural plastic hinge region, hoops are spaced at $\leq d/3$, and if, for components of moderate and high ductility demand, the strength provided by the hoops (V_s) is at least three-fourths of the design shear. Otherwise, the component is considered nonconforming.
3. Linear interpolation between values listed in the table shall be permitted.



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