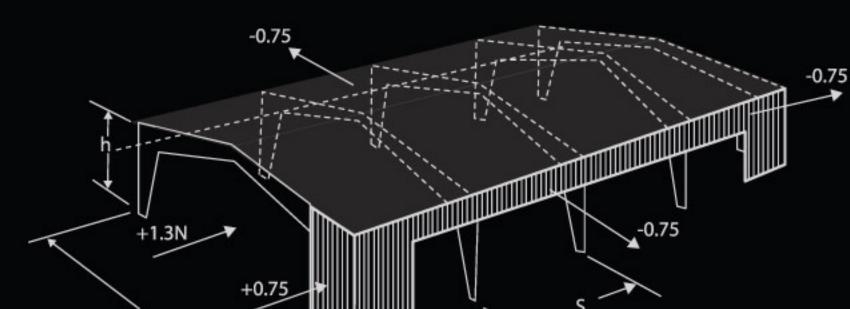
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Metal Building Systems Manual

50th Anniversary Edition



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Section 9—Fabrication Tolerances

9.1 Cold-Formed Structural Members

The fabrication tolerances indicated in Figure 9.1 for cold-formed structural members are defined in Table 9.1.

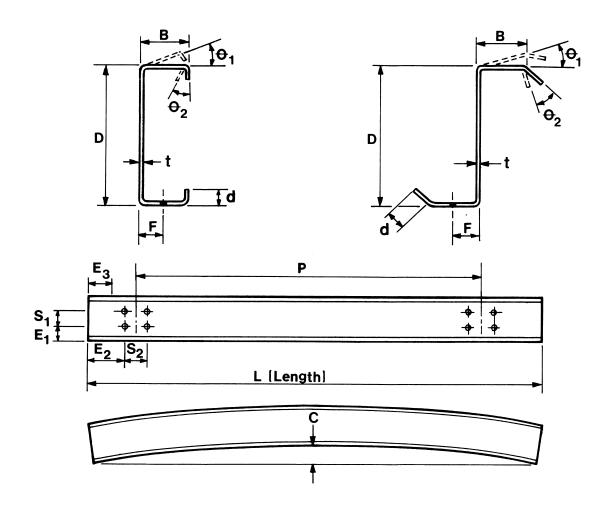


Figure 9.1 Cold-Formed Structural Members

Formed Structural Members				
	Dimension	Tolerances		
		+	-	
	D	3/16"	3/16"	
Geometry	В	3/16"	3/16"	
	d	3/8"	1/8"	
	θ_1	3°	3°	
	θ_2	5°	5°	
Hole Location	E_1	1/8"	1/8"	
	E ₂	1/8"	1/8"	
	E ₃	1/8"	1/8"	
	S ₁	1/16"	1/16"	
	S_2	1/16"	1/16"	
	F	1/8"	1/8"	
	Р	1/8"	1/8"	
Length (L)		1/8"	1/8"	
Camber (C)		1/4" x L (ft)/ 10		
Minimum Thickness (t)		0.95 (Design t)		

Table 9.1Cold-Formed Structural Members

9.2 Built-Up Structural Members

The fabrication tolerances indicated in Figure 9.2(a) and 9.2(b) for built-up structural members are defined in Table 9.2.

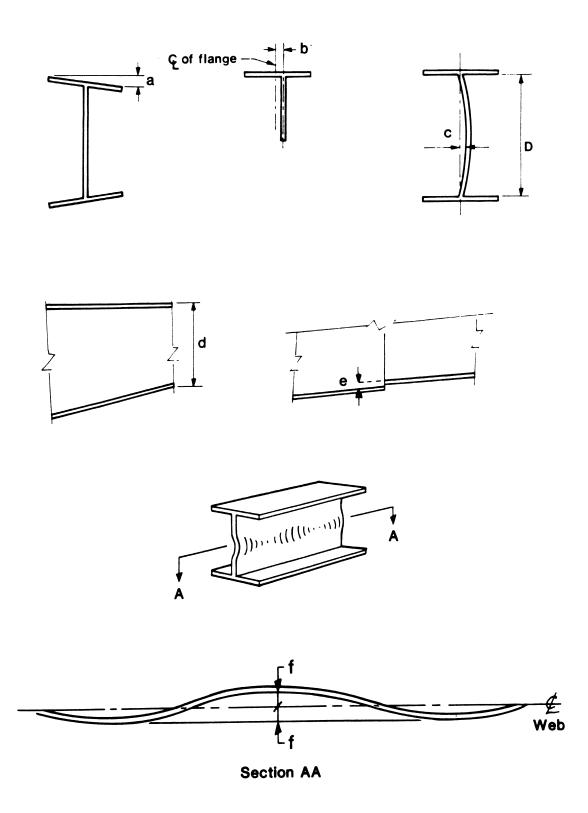


Figure 9.2(a) Built-Up Structural Member

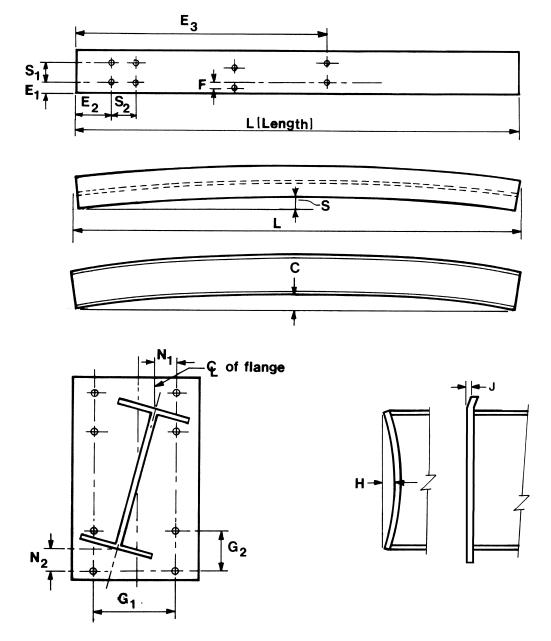


Figure 9.2(b) Built-Up Structural Member

Built-up Structural Members						
	Dimension		Tolerances			
			+	-		
Geometry	8	ì	3°- 1/4" Max	3°- 1/4" Max		
	b		1/4"	1/4"		
	d		3/16"	3/16"		
	е		1/8"	1/8"		
	с		D/72"			
	f		D/72"			
Hole Location	E1		1/8"	1/8"		
	E2		1/8"	1/8"		
	E3		1/8"	1/8"		
	S1		1/16"	1/16"		
	S2		1/16"	1/16"		
	F		1/8"	1/8"		
Length (L)			1/4"	1/4"		
Sweep (S)			Runway Beams 1/8" x L(ft)/10			
			All Other members 1/4" x L(ft)/ 10			
Camber (C)			1/4" x L(ft)/ 10			
	N	[₁	1/8"	1/8"		
	N ₂		3/16"	3/16"		
	G_1		1/16"	1/16"		
Splice	G ₂		1/16"	1/16"		
Plates		Up to 24"	1/8"	1/8"		
	Н	24" to 48"	3/16"	3/16"		
		Over 48"	1/4"	1/4''		
	J		1/4"	1/4"		

Table 9.2Built-Up Structural Members