

Connection Design

Number of Posts per end 1

Baseplate and Anchor Bolt Input		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Thickness	Yield St.	No. of Bolts	Diameter of Bolt	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	ksi		inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
2.000	50.00	4	1.000	50	22.00	30.00	6.660	37.50	30.00	8.000	44.000	0.68	69.85
			4.6, 6, 8									1.0	37.50
													OK

Truss Chord Splice Connection Input		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Thickness	Yield St.	No. of Bolts	Diameter of Bolt	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	ksi		inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
0.750	50.00	0.750	4										
													OK

Truss Diagonal Connection Input (for 1/2 connection)

Truss Diagonal Connection Input (for 1/2 connection)		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Thickness	Yield St.	No. of Bolts	Diameter of Bolt	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	ksi		inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
0.375	50.000	0.375	4										
													OK

Post Diagonal Connection Input (for 1/2 connection)

Post Diagonal Connection Input (for 1/2 connection)		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Thickness	Yield St.	No. of Bolts	Diameter of Bolt	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	ksi		inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
0.500	50.000	0.500	4										
													OK

Truss Support Connection (use W Shape)

Truss Support Connection (use W Shape)		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Web Thickness	Web Depth	Member Yield St.	Member I _x	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	inches	ksi	in ⁴	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
0.100	5.075	50.00	38.00										
													OK

Truss Support Connection (For Tri-Chord)

Truss Support Connection (For Tri-Chord)		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Dist. from edge of post to C.G. of post	Depth of Plate	Yield St.	Plate Thickness	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	inches	ksi	inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
9.000	16.000	50.000	0.250										
													OK

Monotube Connection at Pole

Monotube Connection at Pole		Analysis Results		Socket Weld Design		Anchor Bolt		Baseplate					
Dist. of U-Post from Pole	Plate Thickness	Yield St.	Plate Thickness	Yield St.	Bot Circle Dia. (in)	Weld Size	Total Weld Length (in)	Embedment	Extension	Top Length	Anchor Size	Anchor Yield	Baseplate Capacity
inches	inches	ksi	inches	ksi	inches	inches	inches	inches	inches	inches	inches	ksi	lb
0.75	0.25	50	0.25										
													OK