

REFERENCES	CALCULATIONS	RESULTS																																																																																																																																																																																		
SkyCiv CLOUD STRUCTURAL SOFTWARE	Column Splice Connection Calculations Connection detailing information: Design Code: AISC 360-16 ASD SECTION A-A UPPER COLUMN LOWER COLUMN Levf2 Nf4 Levf2 Lehf4 (Nf3-1)@Sf3 Lehf3 Lehf (Nf-1)@Sf Lehf2 Sf4 G2 Sf4 Sf2 G1 Sf2 Levf Nf2 Levf Levw2 (Nw3-1)@Sw3 Levw2 Lehw4 (Nw4-1)@Sw4 Lehw3 Lehw (Nw2-1)@Sw2 Lehw2 Levw (Nw-1)@Sw Levw Fz +Fy -Fy Mx Fz +Fy -Fy Mx SEE NOTE Tfp THICK FLANGE PLATE, TYP. Twp THICK NS/FS WEB PLATE NOTE: PROVIDE SHIM PLATES AT ALL GAPS BETWEEN COLUMN FLANGES AND FLANGE PLATES AS WELL AS COLUMN WEBS AND WEB PLATES AS REQUIRED. <table><tr><th colspan="2">Lower Column</th><th colspan="3">Upper Column</th><th colspan="4">Plate Info</th><th colspan="3">Design Loads</th></tr><tr><th>Shape</th><th>Grade</th><th>Shape</th><th>Grade</th><th>Fit to Bear?</th><th>Tfp</th><th>Tfp Grade</th><th>Twp</th><th>Twp Grade</th><th>Fy</th><th>Fz</th><th>Mx</th></tr><tr><td>W14x90</td><td>A992</td><td>W14x90</td><td>A992</td><td>YES</td><td>1"</td><td>A572 GR.50</td><td>1"</td><td>A572 GR.50</td><td>(50,-50)kips</td><td>20kips</td><td>25kip-ft</td></tr></table><table><tr><th colspan="13">Lower Column Flange Connection Info</th></tr><tr><th>Bolt Diameter</th><th>Bolt Grade</th><th>Hole at Column</th><th>Hole at Plate</th><th>Nf</th><th>Sf</th><th>Lehf</th><th>Lehf2</th><th>Nf2</th><th>G1</th><th>Sf2</th><th>Levf</th></tr><tr><td>3/4"</td><td>A325-SC(A)</td><td>STD</td><td>OVS</td><td>4</td><td>3"</td><td>2"</td><td>2"</td><td>2</td><td>7"</td><td>0"</td><td>2"</td></tr></table><table><tr><th colspan="12">Lower Column Web Connection Info</th></tr><tr><th>Bolt Diameter</th><th>Bolt Grade</th><th>Hole at Column</th><th>Hole at Plate</th><th>Nw</th><th>Sw</th><th>Levw</th><th>Nw2</th><th>Sw2</th><th>Lehw</th><th>Lehw2</th></tr><tr><td>3/4"</td><td>A325-SC(A)</td><td>STD</td><td>OVS</td><td>2</td><td>3"</td><td>2"</td><td>3</td><td>3"</td><td>3 1/2"</td><td>2"</td></tr></table><table><tr><th colspan="13">Upper Column Flange Connection Info</th></tr><tr><th>Bolt Diameter</th><th>Bolt Grade</th><th>Hole at Column</th><th>Hole at Plate</th><th>Nf3</th><th>Sf3</th><th>Lehf3</th><th>Lehf4</th><th>Nf4</th><th>G2</th><th>Sf4</th><th>Levf2</th></tr><tr><td>3/4"</td><td>A325-SC(A)</td><td>STD</td><td>OVS</td><td>4</td><td>3"</td><td>2"</td><td>2"</td><td>2</td><td>7"</td><td>0"</td><td>2"</td></tr></table><table><tr><th colspan="12">Upper Column Web Connection Info</th></tr><tr><th>Bolt Diameter</th><th>Bolt Grade</th><th>Hole at Column</th><th>Hole at Plate</th><th>Nw3</th><th>Sw3</th><th>Levw2</th><th>Nw4</th><th>Sw4</th><th>Lehw3</th><th>Lehw4</th></tr><tr><td>3/4"</td><td>A325-SC(A)</td><td>STD</td><td>OVS</td><td>2</td><td>3"</td><td>2"</td><td>3</td><td>3"</td><td>3 1/2"</td><td>2"</td></tr></table>	Lower Column		Upper Column			Plate Info				Design Loads			Shape	Grade	Shape	Grade	Fit to Bear?	Tfp	Tfp Grade	Twp	Twp Grade	Fy	Fz	Mx	W14x90	A992	W14x90	A992	YES	1"	A572 GR.50	1"	A572 GR.50	(50,-50)kips	20kips	25kip-ft	Lower Column Flange Connection Info													Bolt Diameter	Bolt Grade	Hole at Column	Hole at Plate	Nf	Sf	Lehf	Lehf2	Nf2	G1	Sf2	Levf	3/4"	A325-SC(A)	STD	OVS	4	3"	2"	2"	2	7"	0"	2"	Lower Column Web Connection Info												Bolt Diameter	Bolt Grade	Hole at Column	Hole at Plate	Nw	Sw	Levw	Nw2	Sw2	Lehw	Lehw2	3/4"	A325-SC(A)	STD	OVS	2	3"	2"	3	3"	3 1/2"	2"	Upper Column Flange Connection Info													Bolt Diameter	Bolt Grade	Hole at Column	Hole at Plate	Nf3	Sf3	Lehf3	Lehf4	Nf4	G2	Sf4	Levf2	3/4"	A325-SC(A)	STD	OVS	4	3"	2"	2"	2	7"	0"	2"	Upper Column Web Connection Info												Bolt Diameter	Bolt Grade	Hole at Column	Hole at Plate	Nw3	Sw3	Levw2	Nw4	Sw4	Lehw3	Lehw4	3/4"	A325-SC(A)	STD	OVS	2	3"	2"	3	3"	3 1/2"	2"	
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