CORNER COLUMN CALCULATIONS

Step 1 -	Enter the following data from your "Structural Layout" or "Truss & Beam Calculations Sheets":			
	TOTAL ROOF LOAD =lb	s./sq.ft.	SPAN (Length of tr	russ) feet
	SPACING (between trusses) fe	eet LENGT	H of Beam (between 0	Columns) fee
	WEIGHT of End Truss lbs./li	n.ft. WE	EIGHT of Interior Truss	lbs./lin.ft.
	No. of Trusses on EXTERIOR BEAM _	(Do no	ot count trusses sitting	on columns)
	No. of Trusses on INTERIOR BEAM (Do not count trusses sitting on columns)			
	WEIGHT of Exterior Beam lbs./li	n.ft. V	VEIGHT of Interior Bea	mlbs./lin.ft
	COLUMN LENGTH (Height) fe	eet SPA	.CING (between colum	nns) feet
Step 2 -	Find the amount of roof supported by a CORNER COLUMN:			
	Half of the LENGTH of the Beam x Half by the COLUMN in sq.ft.	f of the LEN	GTH of the Truss = AR	REA of Roof supported
Step 3 -	Find the weight of this ROOF AREA:			
	Total Roof Load in lbs./sq.ft. x Area of	Roof in sq.ft	. = Weight of Roof in It	os.
Step 4 -	Find the weight of the TRUSSES:			
	(Half of the LENGTH of an End Truss x Interior Truss x Weight of Truss/lin.ft. > = Total Weight of Trusses in lbs.	the Numbe	, ,	e LENGTH of an
Step 5 -	Find the weight of an EXTERIOR BEAM:			
	Half the LENGTH of an Ext. Beam in ft. x "Weight of Beam" in lbs/sq.ft. = TOTAL Weight of Beam in lbs.			
Step 6 -	Find the total weight on a Corner Column:			
	Add "Weight of Roof" + "Weight of Trusses" + "Weight of Beam" = TOTAL WEIGHT on Column in lbs.			
·	Consult the "Structural Steel Tables" to find the correct size:			
	Convert the total weight to KIPS (1 KIPS = 1,000 lbs.)			
	Then start with the "Height of the Beam or slightly larger than the TOTAL WEIGH		own the table for the "L	oad" that is equal to
Step 8 -	Make note of the following:			
	Column Designation	Colu	ımn Size inc	ches
	Weight or Thickness of Column	Max	. Allow. Wt	lbs.
Step 9 -	Assign a CODE LETTER to this COLUM	N:	Examples: AAA or C1 or CC	