## INTERIOR COLUMN CALCULATIONS

Carefully follow these steps for finding the correct INTERIOR COLUMN:

Step 1 -	- Enter the following data from your	"Structural La	yout" or "Truss & Beam Calc	ulations Sheets":
	TOTAL ROOF LOAD =	lbs./sq.ft	SPAN (Length of true	ss) feet
	SPACING (between trusses)	feet LE	NGTH of Beam (between Co	olumns) feet
	WEIGHT of End Truss	lbs./lin.ft.	WEIGHT of Interior Truss	lbs./lin.ft.
	No. of Trusses on INTERIOR BEA	M(	o not count trusses sitting or	ı columns)
	WEIGHT of Interior Beam (	feet)	COLUMN LENGTH (Height)	)feet
Step 2 -	Find the amount of roof supported by a INTERIOR Column:			
	(Half of the LENGTH of the Beam to one side of the Column plus Half of the LENGTH of the Beam to other side of the Column) $x$ (Half of the LENGTH of the Truss to one side of the CLOUMN plus Half of the LENGTH of the TRUSS to other side of the COLUMN) = AREA of Roo supported by the COLUMN in sq.ft.			
Step 3 -	Find the weight of this ROOF AREA:			
	Total Roof Load x Area of Roof = Weight of Roof in lbs.			
Step 4 -	- Find the weight of the TRUSSES:			
	[(Half of the LENGTH of an INTERIO + (Half of the LENGTH of an Interio Truss/sq.ft.)] x ( the Number of Trus	r Truss to the	other side of the COLUMN $\boldsymbol{x}$	
Step 5 -	Find the total weight of an INTERIC	R BEAM:		
	(Half of the LENGTH of an interior B an interior Beam to the other side of Beam in lbs.		•	
Step 6 -	Find the total weigth on an INTERIC	OR COLUMN	:	
Add "W	eight of Roof" + "Weight of Trusses"	+ "Weight of	Beams" = TOTAL WEIGHT	on Column in lbs.
Step 7 -	Consult the "Structural Steel Tables" to find the correct size:			
	Convert the total weight to KIPS (1 KIP = 1,000 lbs.)			
	Start with the "Height of the COLUMN" and look down the table for the "Load" that is equal to or slightly larger than the TOTAL WEIGHT.			
Step 8 -	Make note of the following:			
	Column Designation		Column Size	inches
	Weight or Thickness of Column		Max. Allow. Wt	lbs.
Step 8 -	· Assign a CODE LETTER to this CC	DLUMN:	Examples: AAA or	C1 or CC