



Standard Joist Selection

RAM Steel 14.06.00.00
 Peak Engineering, Inc.
 Value Plastics
 DataBase: 2013-11-08 Value Plastics DD
 Building Code: IBC

11/12/13 17:55:54

Floor Type: Main roof

Beam Number = 302

SPAN INFORMATION (ft): I-End (222.22,0.00) J-End (222.22,40.00) Slope (deg): 1.384

Joist Size (Optimum) = xxSJxx
 Total Beam Length (ft) = 40.01

LINE LOADS (k/ft):

Load	Dist	DL	LL	Red%	Type	PartL
1	0.000	0.116	0.000	---	Snow	0.000
	40.011	0.116	0.000			0.000
2	0.000	0.000	0.551	---	Snow	0.000
	16.004	0.000	0.174			0.000
3	16.005	0.000	0.174	---	Snow	0.000
	40.011	0.000	0.174			0.000

Maximum Total Unif. Load at any location (lbs/ft) : **666.9**

Maximum Allowable Total Unif. Load at any location (lbs/ft) : 0.0

Allowable Stress Ratio: 1.00

Design Loads		Allowable Loads (lbs/ft)
Dead:	116.0	
Live:	219.3	0.0
Total:	2239.3	0.0

MOMENTS:

Span	Cond	Moment kip-ft	@ ft
Center	Max +	66.3	18.6

REACTIONS - VERTICAL (kips):

	Left	Right
DL reaction	2.32	2.32
Max +LL reaction	6.09	3.88
Max +total reaction	8.41	6.20