

STRESS ANALYSIS - PAGE 1



NEW MILLENNIUM
BUILDING SYSTEMS

Job Number:
8010-0704

Job Name:
10-123 BARRHAVEN FIRE STATION - SHOPORDERS

Date Run:
11/19/2010 3:56:45 PM

Location:
OTTAWA, ON

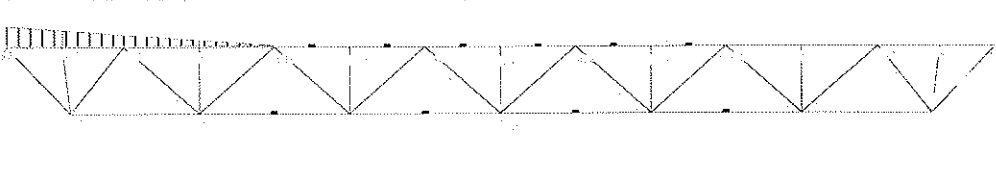
Joist Description:
Short Span Crimp 22K581/265

Mark:
J01

Geometry

Base Length: 26-6 1/2	Working Length: 26-2 1/2	Joist Depth: 22.00	Effective Depth: 21.14	BC Panel Length: 6 @ 4-0	Shape: Parallel Chords
---------------------------------	------------------------------------	------------------------------	----------------------------------	------------------------------------	----------------------------------

Variable	Left End	Right End
BC Panel	1-10 1/4	1-10 1/4
TC Panel	1-7 5/8	1-7 5/8
First Half	1-5	1-5
First Diag.	3-3 1/4	3-3 1/4
Depth	22.00	22.00



Loads, * All loads are factored *****

Load Type	Category	Load1	Load2	Position	Direction	Loc/Begin	Sp/End
Uniform (plf)	DL	183.50	183.50	TC	+	0-0	26-6 1/2
Uniform (plf)	LL	397.50	397.50	TC	+	0-0	26-6 1/2
Conc anywhere (lbs)	TL	315.00	0.00	BC	+	13-3 1/4	0-0
Uniform (plf)	TL	234.00	0.00	TC	+	0-0	6-10
Net Uplift (plf)	WL	197.00	197.00	TC	-	0-0	26-6 1/2
Conc anywhere (lbs)	TL	315.00	0.00	TC	+	13-3 1/4	0-0

Stress Analysis Summary

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 8,988.84	Reaction RE: 8,311.39	Minimum Shear: 2,247.21	Max TC Comp.: 31,215.33	Max BC Tension: 30,281.79
--------------------------------	-------------------------------	---------------------------------	---------------------------------	-----------------------------------	-----------------------------------	-------------------------------------

Member	TC Tension	TC Compression	BC Tension	BC Compression	Web Tension	Web Comp.	Web Length	PP Dist.
W2	2,399.96	7,756.87	0.00	0.00	11,632.01	3,469.08	29.27	0-2
V1S	2,360.92	7,609.36	0.00	0.00	316.72	1,945.45	21.30	1-7 5/8
W3	2,360.92	7,609.36	13,165.98	4,122.90	2,811.31	9,162.29	27.12	1-10 1/4
W4	6,192.42	19,545.68	13,165.98	4,122.90	8,858.84	2,757.64	31.98	3-3 1/4
W5	6,192.42	19,545.68	24,456.32	7,802.04	2,144.83	6,955.39	31.98	5-3 1/4
W6	8,951.78	28,028.78	24,456.32	7,802.04	5,197.20	1,532.02	31.98	7-3 1/4
W7	8,951.78	28,028.78	30,281.79	9,641.62	1,003.79	3,400.19	31.98	9-3 1/4
W8	9,871.56	31,215.33	30,281.79	9,641.62	3,400.19	1,003.79	31.98	11-3 1/4

* Symmetrical Joist

Standard Verticals

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	454.21	2,079.83	21.14



J01 - J51
TJ03 - TJ50