



*Zimmerman Metals Inc.*

**STRUCTURAL CALCULATIONS**

**TSS2500 PANEL**

*Zimmerman Metals Inc.*

*Quality Workmanship and Service Since 1936*

201 East 58th Avenue, Denver, Colo. 80216 / 303-294-0180 / FAX 303-292-5013

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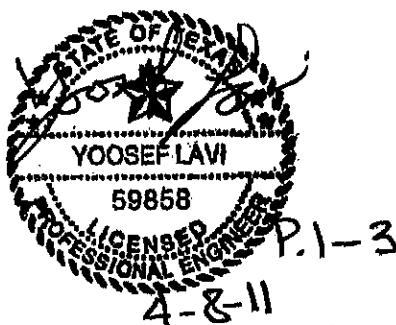
# **STRUCTURAL CALCULATIONS FOR ZIMMERMAN METALS MODEL TSS-2500 16" WIDE (STEEL)**

Prepared for:  
**Zimmerman Metals, inc.**  
201 East 58<sup>th</sup> Avenue  
Denver, CO 80216

Prepared by:  
**Lavi & Associates, L.P.**  
Consulting Engineers  
10300 N. Central Expressway Ste # 322  
Dallas, TX 75231  
[Job #10-228]

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SECTION PROPERTIES:				16" ZIMMERMAN TSS2500					
Gauge	Thickness in.	Weight psf	Yield Stress ksi	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>	I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft
24	0.024	1.314	50.0	0.218	0.102	3.051	0.127	0.097	2.897
22	0.030	1.641	50.0	0.302	0.143	4.296	0.177	0.131	3.939
20	0.035	2.122	50.0	0.369	0.178	5.331	0.214	0.155	4.622

**Notes on Section Properties and Load Table:**

- \* Section properties and allowables are calculated in accordance with 2004 AISI Specifications.
- \* I +/- is for deflection determination.
- \* S +/- is for bending determination.
- \* M<sub>a</sub> is allowable bending moment.
- \* All values are for one foot of panel width.
- \* These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel,
- \* Allowable outward loads based on stress HAVE NOT been increased by 33.33 % for wind uplift.
- \* Allowable loads for deflection are based on deflection limitation of span/180.
- \* For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.
- \* Minimum bearing length must be checked.
- \* Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

## THEORETICAL ALLOWABLE LIVE AND WIND LOADS

<b>16" ZIMMERMAN TSS2500</b>									
SPAN (ft)	SINGLE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	226.0	226.0	214.6	318.2	318.2	291.8	394.9	394.9	342.3
3.5	166.0	166.0	157.6	233.8	233.8	214.4	290.1	290.1	251.5
4	127.1	127.1	120.7	179.0	179.0	164.1	222.1	222.1	192.6
4.5	100.4	100.4	95.4	141.4	141.4	129.7	175.5	175.5	152.1
5	81.4	81.4	77.2	114.6	114.6	105.0	142.2	142.2	123.2
5.5	67.2	67.2	63.8	94.7	94.7	86.8	117.5	117.5	101.9
6	56.5	56.5	53.6	79.6	79.6	72.9	98.7	98.7	85.6
6.5	48.1	48.1	45.7	67.8	67.8	62.2	84.1	84.1	72.9
SPAN (ft)	TWO SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	214.6	214.6	226.0	291.8	291.8	318.2	342.3	342.3	394.9
3.5	157.6	157.6	166.0	214.4	214.4	233.8	251.5	251.5	290.1
4	120.7	120.7	127.1	164.1	164.1	179.0	192.6	192.6	222.1
4.5	95.4	95.4	100.4	129.7	129.7	141.4	152.1	152.1	175.5
5	77.2	77.2	81.4	105.0	105.0	114.6	123.2	123.2	142.2
5.5	63.8	63.8	67.2	86.8	86.8	94.7	101.9	101.9	117.5
6	53.6	53.6	56.5	72.9	72.9	79.6	85.6	85.6	98.7
6.5	45.7	45.7	48.1	62.2	62.2	67.8	72.9	72.9	84.1
SPAN (ft)	THREE OR MORE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	250.6	250.6	264.0	340.9	340.9	371.8	399.9	399.9	461.3
3.5	184.2	184.2	194.0	250.4	250.4	273.1	293.8	293.8	338.9
4	141.0	141.0	148.5	191.7	191.7	209.1	225.0	225.0	259.5
4.5	111.4	111.4	117.3	151.5	151.5	165.2	177.7	177.7	205.0
5	90.2	90.2	95.0	122.7	122.7	133.8	144.0	144.0	166.1
5.5	74.6	74.6	78.6	101.4	101.4	110.6	119.0	119.0	137.3
6	62.7	62.7	66.0	85.2	85.2	92.9	100.0	100.0	115.3
6.5	53.4	53.4	56.2	72.6	72.6	79.2	85.2	85.2	98.3

**Notes:**

- \* Theoretical allowable loads are based on uniform span lengths.
- \* LL (S) is allowable live load based on stress limitation
- \* LL (D) is allowable live load based on deflection limitation of L/180
- \* WL is allowable wind load and HAS NOT been increased by 33-1/3%.

# **STRUCTURAL CALCULATIONS FOR ZIMMERMAN METALS**

## **MODEL TSS-2500**

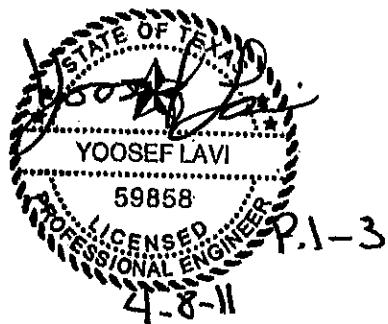
### **18" WIDE (STEEL)**

Prepared for:  
**Zimmerman Metals, Inc.**  
201 East 58<sup>th</sup> Avenue  
Denver, CO 80216

Prepared by:  
**Lavi & Associates, L.P.**  
Consulting Engineers  
10300 N. Central Expressway Ste # 322  
Dallas, TX 75231  
[Job #10-228]

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April 8, 2011

SECTION PROPERTIES:				18" ZIMMERMAN TSS2500					
Gauge	Thickness in.	Weight psf	Yield Stress ksi	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>	I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft
24	0.024	1.276	50.0	0.199	0.091	2.730	0.113	0.086	2.577
22	0.030	1.595	50.0	0.275	0.129	3.846	0.117	0.117	3.503
20	0.035	1.843	50.0	0.337	0.159	4.774	0.137	0.137	4.110

**Notes on Section Properties and Load Table:**

- \* Section properties and allowables are calculated in accordance with 2004 AISI Specifications.
- \* I +/- is for deflection determination.
- \* S +/- is for bending determination.
- \* M<sub>a</sub> is allowable bending moment.
- \* All values are for one foot of panel width.
- \* These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel,
- \* Allowable outward loads based on stress HAVE NOT been increased by 33.33 % for wind uplift.
- \* Allowable loads for deflection are based on deflection limitation of span/180.
- \* For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.
- \* Minimum bearing length must be checked.
- \* Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

### THEORETICAL ALLOWABLE LIVE AND WIND LOADS

18" ZIMMERMAN TSS2500									
SPAN (ft)	SINGLE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	202.2	202.2	190.9	284.9	284.9	259.5	353.6	353.6	304.4
3.5	148.6	148.6	140.3	209.3	209.3	190.6	259.8	259.8	223.7
4	113.8	113.8	107.4	160.3	160.3	145.9	198.9	198.9	171.3
4.5	89.9	89.9	84.9	126.6	126.6	115.3	157.2	157.2	135.3
5	72.8	72.8	68.7	102.6	102.6	93.4	127.3	127.3	109.6
5.5	60.2	60.2	56.8	84.8	84.8	77.2	105.2	105.2	90.6
6	50.6	50.6	47.7	71.2	71.2	64.9	88.4	88.4	76.1
6.5	43.1	43.1	40.7	60.7	60.7	55.3	75.3	75.3	64.9
SPAN (ft)	TWO SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	190.9	190.9	202.2	259.5	259.5	284.9	304.4	304.4	353.6
3.5	140.3	140.3	148.6	190.6	190.6	209.3	223.7	223.7	259.8
4	107.4	107.4	113.8	145.9	145.9	160.3	171.3	171.3	198.9
4.5	84.9	84.9	89.9	115.3	115.3	126.6	135.3	135.3	157.2
5	68.7	68.7	72.8	93.4	93.4	102.6	109.6	109.6	127.3
5.5	56.8	56.8	60.2	77.2	77.2	84.8	90.6	90.6	105.2
6	47.7	47.7	50.6	64.9	64.9	71.2	76.1	76.1	88.4
6.5	40.7	40.7	43.1	55.3	55.3	60.7	64.9	64.9	75.3
SPAN (ft)	THREE OR MORE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	223.0	223.0	236.2	303.1	303.1	332.8	355.7	355.7	413.1
3.5	163.9	163.9	173.6	222.7	222.7	244.5	261.3	261.3	303.5
4	125.5	125.5	132.9	170.5	170.5	187.2	200.1	200.1	232.4
4.5	99.1	99.1	105.0	134.7	134.7	147.9	158.1	158.1	183.6
5	80.3	80.3	85.0	109.1	109.1	119.8	128.0	128.0	148.7
5.5	66.4	66.4	70.3	90.2	90.2	99.0	105.8	105.8	122.9
6	55.8	55.8	59.1	75.8	75.8	83.2	88.9	88.9	103.3
6.5	47.5	47.5	50.3	64.6	64.6	70.9	75.8	75.8	88.0

**Notes:**

- \* Theoretical allowable loads are based on uniform span lengths.
- \* LL (S) is allowable live load based on stress limitation
- \* LL (D) is allowable live load based on deflection limitation of L/180
- \* WL is allowable wind load and HAS NOT been increased by 33-1/3%.

# **STRUCTURAL CALCULATIONS FOR ZIMMERMAN METALS**

## **MODEL TSS-2500**

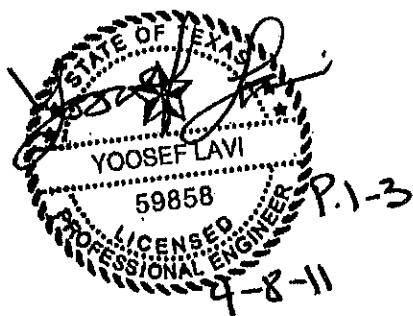
### **20" WIDE (STEEL)**

Prepared for:  
**Zimmerman Metals, Inc.**  
201 East 58<sup>th</sup> Avenue  
Denver, CO 80216

Prepared by:  
**Lavi & Associates, L.P.**  
Consulting Engineers  
10300 N. Central Expressway Ste # 322  
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[Job #10-228]

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April 8, 2011

SECTION PROPERTIES:				20" ZIMMERMAN TSS2500					
Gauge	Thickness in.	Weight psf	Yield Stress ksi	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>	I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft
24	0.024	1.246	50.0	0.182	0.083	2.470	0.102	0.077	2.321
22	0.030	1.557	50.0	0.253	0.116	3.481	0.105	0.105	3.154
20	0.035	1.800	50.0	0.310	0.144	4.322	0.124	0.124	3.701

**Notes on Section Properties and Load Table:**

- \* Section properties and allowables are calculated in accordance with 2004 AISI Specifications.
- \* I +/- is for deflection determination.
- \* S +/- is for bending determination.
- \* M<sub>a</sub> is allowable bending moment.
- \* All values are for one foot of panel width.
- \* These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel,
- \* Allowable outward loads based on stress HAVE NOT been increased by 33.33 % for wind uplift.
- \* Allowable loads for deflection are based on deflection limitation of span/180.
- \* For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.
- \* Minimum bearing length must be checked.
- \* Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

## THEORETICAL ALLOWABLE LIVE AND WIND LOADS

20" ZIMMERMAN TSS2500									
SPAN (ft)	SINGLE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	183.0	183.0	171.9	257.9	257.9	233.6	320.2	320.2	274.1
3.5	134.4	134.4	126.3	189.5	189.5	171.6	235.2	235.2	201.4
4	102.9	102.9	96.7	145.1	145.1	131.4	180.1	180.1	154.2
4.5	81.3	81.3	76.4	114.6	114.6	103.8	142.3	142.3	121.8
5	65.9	65.9	61.9	92.8	92.8	84.1	115.3	115.3	98.7
5.5	54.4	54.4	51.1	76.7	76.7	69.5	95.3	95.3	81.6
6	45.7	45.7	43.0	64.5	64.5	58.4	80.0	80.0	68.5
6.5	39.0	39.0	36.6	54.9	54.9	49.8	68.2	68.2	58.4
SPAN (ft)	TWO SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	171.9	171.9	183.0	233.6	233.6	257.9	274.1	274.1	320.2
3.5	126.3	126.3	134.4	171.6	171.6	189.5	201.4	201.4	235.2
4	96.7	96.7	102.9	131.4	131.4	145.1	154.2	154.2	180.1
4.5	76.4	76.4	81.3	103.8	103.8	114.6	121.8	121.8	142.3
5	61.9	61.9	65.9	84.1	84.1	92.8	98.7	98.7	115.3
5.5	51.1	51.1	54.4	69.5	69.5	76.7	81.6	81.6	95.3
6	43.0	43.0	45.7	58.4	58.4	64.5	68.5	68.5	80.0
6.5	36.6	36.6	39.0	49.8	49.8	54.9	58.4	58.4	68.2
SPAN (ft)	THREE OR MORE SPAN CONDITION								
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	200.8	200.8	213.8	272.9	272.9	301.2	320.2	320.2	374.0
3.5	147.5	147.5	157.0	200.5	200.5	221.3	235.3	235.3	274.8
4	113.0	113.0	120.2	153.5	153.5	169.5	180.1	180.1	210.4
4.5	89.3	89.3	95.0	121.3	121.3	133.9	142.3	142.3	166.2
5	72.3	72.3	77.0	98.2	98.2	108.4	115.3	115.3	134.7
5.5	59.8	59.8	63.6	81.2	81.2	89.6	95.3	95.3	111.3
6	50.2	50.2	53.4	68.2	68.2	75.3	80.1	80.1	93.5
6.5	42.8	42.8	45.5	58.1	58.1	64.2	68.2	68.2	79.7

**Notes:**

- \* Theoretical allowable loads are based on uniform span lengths.
- \* LL (S) is allowable live load based on stress limitation
- \* LL (D) is allowable live load based on deflection limitation of L/180
- \* WL is allowable wind load and HAS NOT been increased by 33-1/3%.

# **STRUCTURAL CALCULATIONS FOR ZIMMERMAN METALS**

## **MODEL TSS-2500**

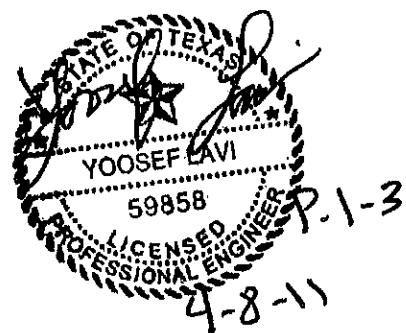
### **24" WIDE (STEEL)**

Prepared for:  
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April 8, 2011

SECTION PROPERTIES:				24" ZIMMERMAN TSS2500					
Gauge	Thickness in.	Weight psf	Yield Stress ksi	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>	I <sub>xx</sub>	S <sub>xx</sub>	M <sub>a</sub>
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in.kips/ft
24	0.024	1.201	50.0	0.157	0.069	2.075	0.085	0.065	1.936
22	0.030	1.500	50.0	0.218	0.098	2.926	0.088	0.088	2.630
20	0.035	1.736	50.0	0.268	0.122	3.635	0.103	0.103	3.086

**Notes on Section Properties and Load Table:**

- \* Section properties and allowables are calculated in accordance with 2004 AISI Specifications.
- \* I +/- is for deflection determination.
- \* S +/- is for bending determination.
- \* M<sub>a</sub> is allowable bending moment.
- \* All values are for one foot of panel width.
- \* These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel,
- \* Allowable outward loads based on stress HAVE NOT been increased by 33.33 % for wind uplift.
- \* Allowable loads for deflection are based on deflection limitation of span/180.
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**THEORETICAL ALLOWABLE LIVE AND WIND LOADS**

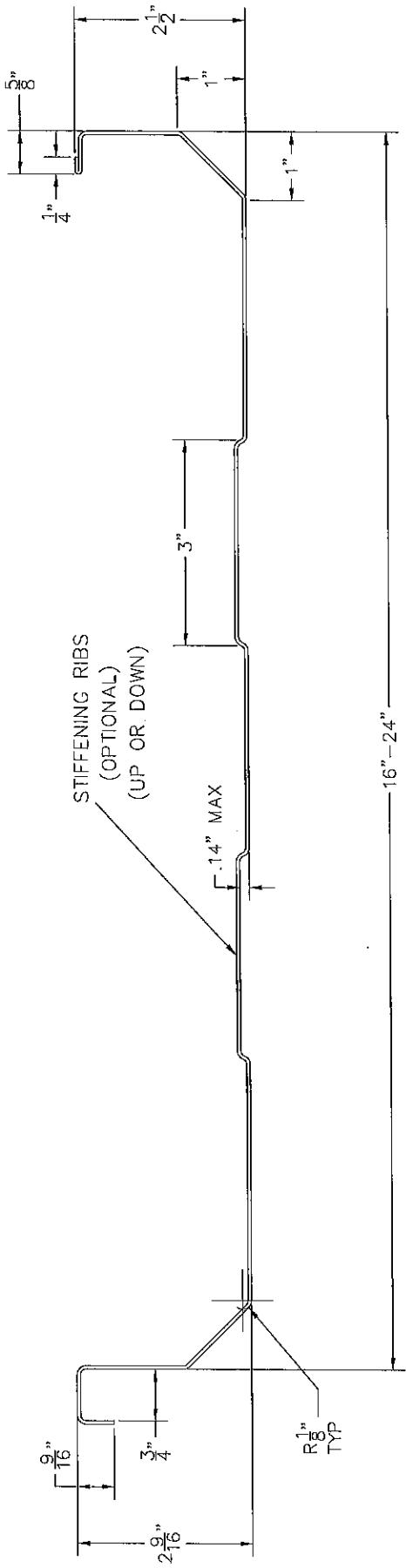
24" ZIMMERMAN TSS2500								
SPAN (ft)	SINGLE SPAN CONDITION							
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi	
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)
3	153.7	153.7	143.4	216.7	216.7	194.8	269.2	269.2
3.5	112.9	112.9	105.4	159.2	159.2	143.1	197.8	197.8
4	86.4	86.4	80.7	121.9	121.9	109.6	151.4	151.4
4.5	68.3	68.3	63.7	96.3	96.3	86.6	119.7	119.7
5	55.3	55.3	51.6	78.0	78.0	70.1	96.9	96.9
5.5	45.7	45.7	42.7	64.5	64.5	58.0	80.1	80.1
6	38.4	38.4	35.9	54.2	54.2	48.7	67.3	67.3
6.5	32.7	32.7	30.5	46.2	46.2	41.5	57.3	57.3
SPAN (ft)	TWO SPAN CONDITION							
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi	
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)
3	143.4	143.4	153.7	194.8	194.8	216.7	228.6	228.6
3.5	105.4	105.4	112.9	143.1	143.1	159.2	167.9	167.9
4	80.7	80.7	86.4	109.6	109.6	121.9	128.6	128.6
4.5	63.7	63.7	68.3	86.6	86.6	96.3	101.6	101.6
5	51.6	51.6	55.3	70.1	70.1	78.0	82.3	82.3
5.5	42.7	42.7	45.7	58.0	58.0	64.5	68.0	68.0
6	35.9	35.9	38.4	48.7	48.7	54.2	57.1	57.1
6.5	30.5	30.5	32.7	41.5	41.5	46.2	48.7	48.7
SPAN (ft)	THREE OR MORE SPAN CONDITION							
	24 Gauge & 50 ksi			22 Gauge & 50 ksi			20 Gauge & 50 ksi	
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)
3	167.5	167.5	179.5	227.5	227.5	253.2	267.0	267.0
3.5	123.1	123.1	131.9	167.2	167.2	186.0	196.2	196.2
4	94.2	94.2	101.0	128.0	128.0	142.4	150.2	150.2
4.5	74.5	74.5	79.8	101.1	101.1	112.5	118.7	118.7
5	60.3	60.3	64.6	81.9	81.9	91.2	96.1	96.1
5.5	49.8	49.8	53.4	67.7	67.7	75.3	79.5	79.5
6	41.9	41.9	44.9	56.9	56.9	63.3	66.8	66.8
6.5	35.7	35.7	38.2	48.5	48.5	53.9	56.9	56.9

**Notes:**

- \* Theoretical allowable loads are based on uniform span lengths.
- \* LL (S) is allowable live load based on stress limitation
- \* LL (D) is allowable live load based on deflection limitation of L/180
- \* WL is allowable wind load and HAS NOT been increased by 33-1/3%.

# MODEL TSS-2500

26 TO 20 Ga, GRADE "D", 50 KSI MIN. YIELD



ZIMMERMAN METALS INC.		201 E. 58th AVE. DENVER, CO 80216 (303) 294-0180	
TITLE		TOLERANCES UNLESS OTHERWISE SPECIFIED	
2-1/2 "	TRAPEZOIDAL	STANDING SEAM	3/4" ANGLE IRON FRACTION: 1/16" & 1/32" ALL UNMACHINED CORNERS
MACH. MOD. NO.	DRAWING NO.	SHEET / OF	NOTES: ALL DIMENSIONS ± 10%
	TSS-2500	NTS	APPROVED BY
		SCALE	DATE
		6/14/10	

MATERIAL USED: 6"