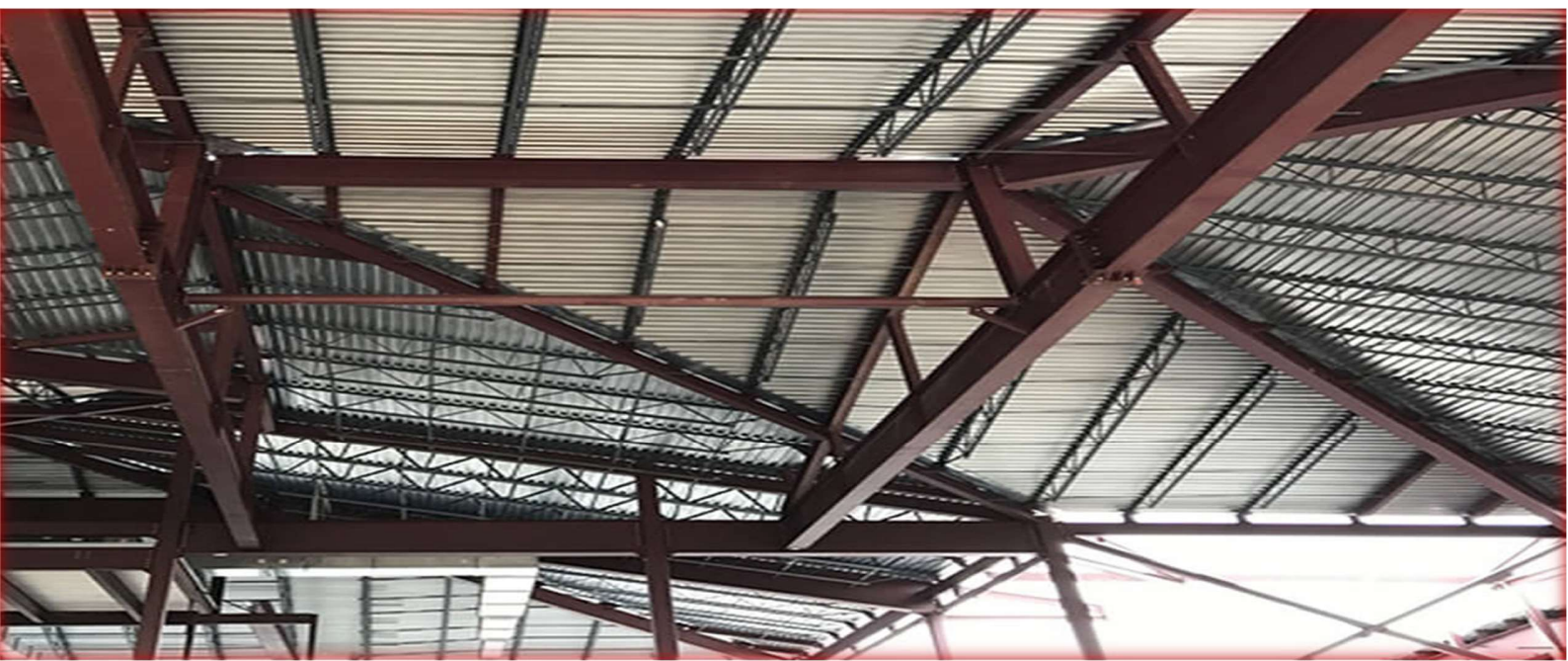
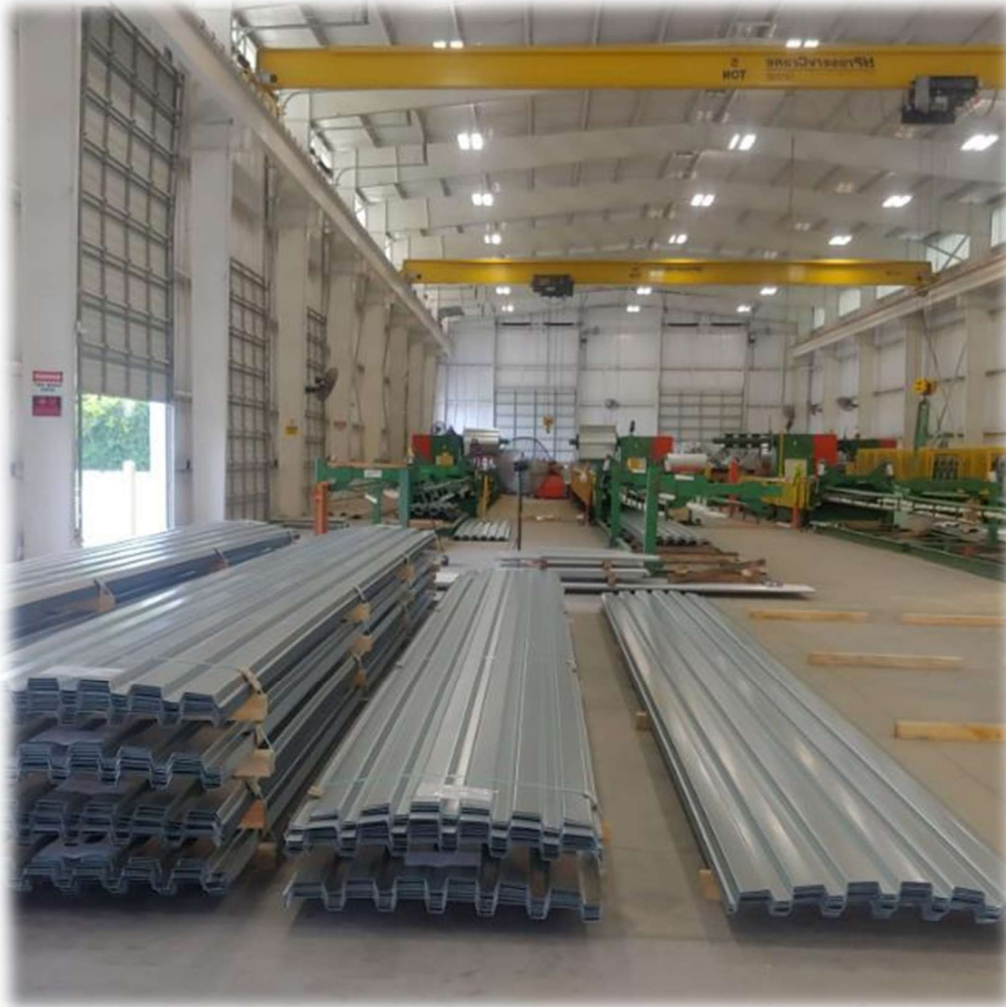




STEEL DECKING AND FLOOR DECK



EZ METAL PLANT INFORMATION



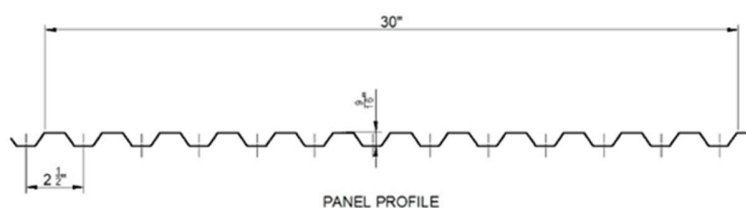
19011 Aldine Westfield Rd,

Houston, TX 77073 USA

EMAIL: sales@ezmetal.com - PHONE: 832 371 9224

We manufacture high quality metal panels along with accessories for the metal construction industry. We stock coil inventory and produce custom length in house steel decking, roof panels, flat sheet and trim.

EZ 0.6" CONCRETE DECK (30" COVERAGE)



SPECIFICATIONS

- Rib height 9/16 "
- Coverage 30"
- Gauges 26
- Finish G60

Section Properties:				30" Wide EZ 0.6" PANEL						
YIELD STRESS KSI	GAUGE	THICKNESS (in)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
				(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
				Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	26	0.0175	0.960	0.016	0.052	1.025	0.016	0.054	1.063	1014
50	26	0.0175	0.960	0.015	0.048	1.440	0.016	0.050	1.492	1536

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & Ma IS ALLOWABLE BENDING DESIGN.

* Ma IS ALLOWABLE BENDING MOMENT AND Va IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

ALLOWABLE WEB CRIPPLING LOADS, Pa (lb/ft)										
YIELD STRESS KSI	GAUGE	THICKNESS (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	26	0.0175	481	533	620	694	699	765	876	970
50	26	0.0175	729	808	940	1051	1060	1160	1328	1470

*TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

*ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

*MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

50 KSI, 30" WIDE EZ 0.6" PANEL															
GAUGE	SPAN CONDITION		ALLOWABLE LIVE LOADS (lb/ft ²)												
			SPAN (ft)												
			2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.5	5	5.5	6
26	SS	STRESS	240	190	154	127	107	91	78	68	60	47	38	32	27
		L/180	166	117	85	64	49	39	31	25	21	15	11	8	6
	DS	STRESS	244	193	157	130	110	93	81	70	62	49	40	33	28
		L/180	400	281	205	154	118	93	75	61	50	35	26	19	15
	TS	STRESS	283	225	183	151	128	109	94	82	72	57	46	38	32
		L/180	313	220	160	121	93	73	58	48	39	28	20	15	12

1. ALLOWABLE LOAD BASED ON STRESS IS THE SMALLEST LOAD DUE TO BENDING, SHEAR, DISTORTIONAL BUCKLING AND COMBINED BENDING AND SHEAR.

2. ALLOWABLE LOAD BASED ON DEFLECTION LIMIT CANNOT EXCEED ALLOWABLE LOAD BASED ON STRESS

3. THESE LOADS ARE FOR PANEL STRENGTH, FRAMES, PURLINS, FASTENERS AND ALL SUPPORTS, MUST BE DESIGNED TO RESIST ALL LOADS IMPOSED ON THE PANEL. ALLOWABLE LOADS DOES NOT ADDRESS WEB CRIPPLING OR LOAD TESTING.

4. ALLOWABLE LOADS FOR DEFLECTION ARE BASED ON DEFLECTION LIMITATIONS OF SPAN/180.

5. 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.

6. SS=SIMPLE SPAN, DS=DOUBLE SPAN AND TS=THREE OR MORE SPANS

MAXIMUM UNSHORED CLEAR SPAN 30" WIDE, 50 KSI EZ 0.6" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)					
TOTAL SLAB DEPTH	GAUGE	WEIGHT(PS F)	MAXIMUM UNSHORED		
			CLEAR SPAN (ft)		
			1	2	3
2"	26	22	2.5	3.2	3.3
2.5"	26	28	2.4	3.1	3.1
3"	26	34	2.3	3.0	3.0
3.5"	26	40	2.2	2.9	2.9
4"	26	46	2.1	2.8	2.8
4.5"	26	52	2.1	2.7	2.8
5"	26	58	2.0	2.7	2.7

1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

ALLOWABLE SUPERIMPOSED LOAD 30" WIDE EZ 0.6" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	REINFORCEMENT W.W.F	As(in ²)	SUPERIMPOSED LIVE LOAD (PSF)									
			SPAN (ft)									
			2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.5
2"	6X6-W 1.4W 1.4	0.028*	215	170	138	114	96	81	70	61	54	42
22 PSF	6X6-W 2.1W 2.1	0.042	316	250	202	167	140	120	103	90	79	62
	6X6-W 2.9 W 2.9	0.058	400	337	273	225	189	161	139	121	107	84
2.5"	6X6-W 1.4W 1.4	0.028*	294	232	188	155	131	111	96	84	73	58
28 PSF	6X6-W 2.1W 2.1	0.042	400	343	278	230	193	164	142	123	109	86
	6X6-W 2.9 W 2.9	0.058	400	400	377	312	262	223	192	168	147	116
3"	6X6-W 1.4W 1.4	0.028*	373	294	238	197	166	141	122	106	93	74
34 PSF	6X6-W 2.1W 2.1	0.042	400	400	353	292	245	209	180	157	138	109
	6X6-W 2.9 W 2.9	0.058	400	400	400	398	334	285	246	214	188	149
3.5"	6X6-W 1.4W 1.4	0.028*	400	400	400	355	298	254	219	191	168	132
40 PSF	6X6-W 2.1W 2.1	0.042	400	400	400	400	400	347	299	260	229	181
	6X6-W 2.9 W 2.9	0.058	400	400	400	400	400	400	400	377	331	262
4"	6X6-W 1.4W 1.4	0.028*	400	400	400	400	343	292	252	219	193	152
46 PSF	6X6-W 2.1W 2.1	0.042	400	400	400	400	400	395	341	297	261	206
	6X6-W 2.9 W 2.9	0.058	400	400	400	400	400	400	400	400	377	298
4.5"	6X6-W 1.4W 1.4	0.028*	400	400	400	400	400	400	381	332	292	230
52 PSF	6X6-W 2.1W 2.1	0.042	400	400	400	400	400	400	400	400	400	334
	6X6-W 2.9 W 2.9	0.058	400	400	400	400	400	400	400	400	400	400
5"	6X6-W 1.4W 1.4	0.028*	400	400	400	400	400	400	400	366	322	255
58 PSF	6X6-W 2.1W 2.1	0.042	400	400	400	400	400	400	400	400	400	370
	6X6-W 2.9 W 2.9	0.058	400	400	400	400	400	400	400	400	400	400

1 * As DOES NOT MEET ACI CRITERIA FOR TEMPERATURE AND SHRINKAGE.

2. SUPERIMPOSED LOADS ARE BASED UPON THREE SPAN CONDITIONS AND ACI MOVEMENT COEFFICIENTS.

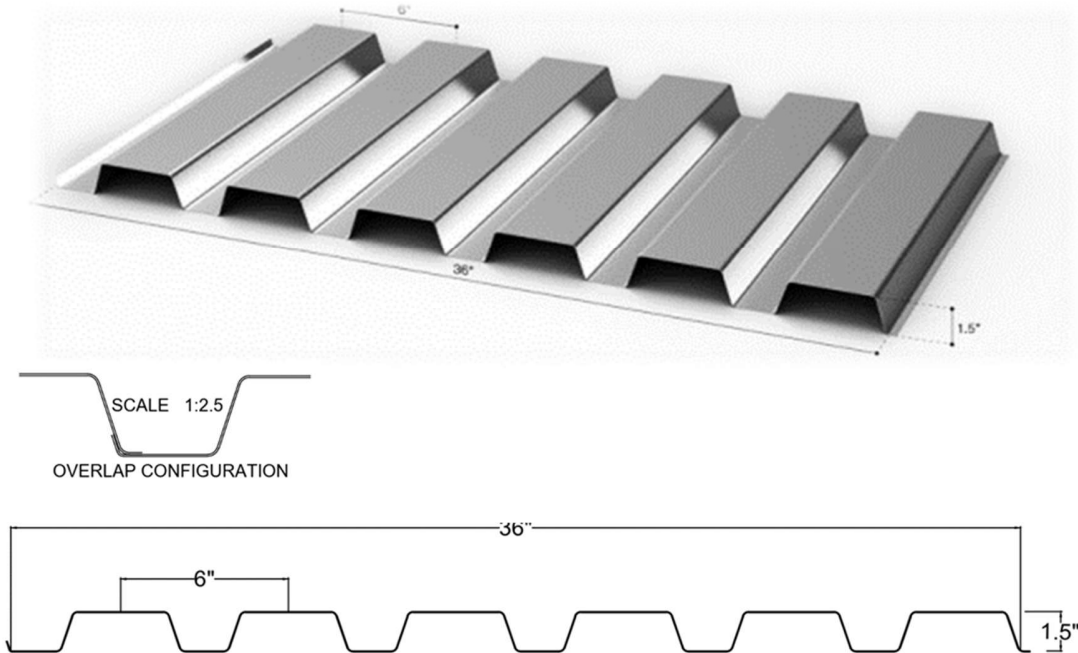
3. LOAD VALUES FOR SINGLE AND DOUBLE SPANS ARE TO BE REDUCED.

4. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK.

5. SLABS ARE TEMPORARILY SHORED MUST HAVE THE SLAB WEIGHT DEDUCTED FROM THE TABULATED LIVE LOAD REGARDLESS OF THE TYPE OF FINISH.

6. UNPAINTED AND GALVANIZED DECK IS NOT CONSIDERED PERMANENT AND THE WEIGHT OF THE SLABS FROM THE TABULATED LIVE LOAD.

EZ 1.5" B ROOF DECK



SPECIFICATIONS

- Rib height 1 ½"
- 6" Center to Center
- 6 Major Ribs
- Coverage 36"
- Gauges 18,20 and 22
- Finishes G60 and G90

SECTION PROPERTIES											
YIELD STRESS KSI	GAUGE	THIKNE SS (in)	AREA (in2)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
					(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
					Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	22	0.0295	0.477	1.623	0.137	0.187	3.667	0.170	0.188	3.713	1712
	20	0.0358	0.576	1.969	0.180	0.231	4.560	0.213	0.239	4.723	2077
	18	0.0474	0.767	2.607	0.263	0.313	6.183	0.287	0.319	6.303	2751
50	22	0.0295	0.477	1.623	0.130	0.183	5.037	0.160	0.175	5.237	2594
	20	0.0358	0.579	1.969	0.167	0.225	6.680	0.203	0.224	6.717	3147
	18	0.0474	0.767	2.607	0.247	0.306	9.160	0.283	0.313	9.370	4168

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & Ma IS ALLOWABLE BENDING DESIGN.

* Ma IS ALLOWABLE BENDING MOMENT AND Va IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

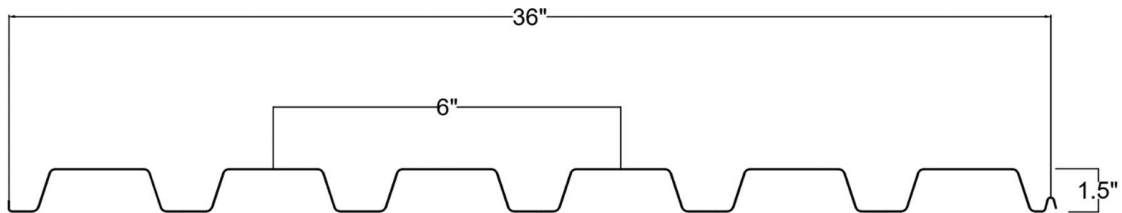
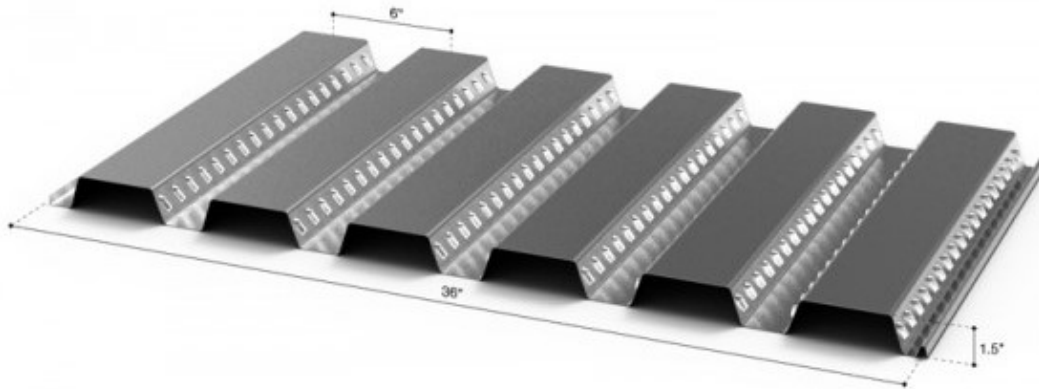
ALLOWABLE WEB CRIPPLING LOADS, Pa (lb/ft)										
YIELD STRESS KSI	GAUGE	THIKNES S (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	22	0.0295	537	591	680	755	800	868	981	1077
	20	0.0358	766	840	962	1066	1159	1253	1411	1544
	18	0.0474	1281	1397	1591	1755	1981	2131	2382	2594
50	22	0.0295	814	895	1030	1144	1212	1314	1487	1632
	20	0.0358	1161	1272	1458	1615	1756	1899	2138	2339
	18	0.0474	1941	2116	2411	2659	3001	3228	3609	3930

*TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

*ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

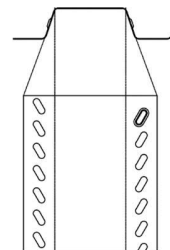
*MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

EZ 1.5" CONCRETE DECK



SPECIFICATIONS

- Rib height 1 ½"
- 6" Center to Center
- 6 Major Ribs
- Coverage 36"
- Embossments and special lap nesting detail help bond concrete with metal to provide a composite floor system.
- Gauges 18,20 and 22
- Finishes G60 and G90



SECTION PROPERTIES											
YIELD STRESS KSI	GAUGE	THIKNE SS (in)	AREA (in2)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
					(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
					Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	22	0.0295	0.477	1.623	0.137	0.187	3.667	0.170	0.188	3.713	1712
	20	0.0358	0.576	1.969	0.180	0.231	4.560	0.213	0.239	4.723	2077
	18	0.0474	0.767	2.607	0.263	0.313	6.183	0.287	0.319	6.303	2751
50	22	0.0295	0.477	1.623	0.130	0.183	5.037	0.160	0.175	5.237	2594
	20	0.0358	0.579	1.969	0.167	0.225	6.680	0.203	0.224	6.717	3147
	18	0.0474	0.767	2.607	0.247	0.306	9.160	0.283	0.313	9.370	4168

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & M_a IS ALLOWABLE BENDING DESIGN.

* M_a IS ALLOWABLE BENDING MOMENT AND V_a IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

ALLOWABLE WEB CRIPPLING LOADS, P _a (lb/ft)										
YIELD STRESS KSI	GAUGE	THICKNESS (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	22	0.0295	537	591	680	719	800	868	981	1031
	20	0.0358	766	840	962	1016	1159	1253	1411	1480
	18	0.0474	1281	1397	1591	1676	1981	2131	2382	2492
50	22	0.0295	814	895	1030	89	1212	1314	1487	1562
	20	0.0358	1161	1272	1458	1540	1756	1899	2138	2242
	18	0.0474	1941	2116	2411	2539	3001	3228	3609	3775

* TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE, 33KSI EZ 1.5" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	5	6	7	8	9	10	11	12
3.5"	22	5.2	6.2	6.2	324	218	154	112	83	63	48	36
33 PSF	20	6.1	7.2	7.2	389	263	186	137	103	79	61	47
	18	7.5	8.8	8.9	400	342	245	181	138	107	84	67
4"	22	5.0	5.9	5.9	400	277	196	143	107	81	62	47
39 PSF	20	5.8	6.8	6.9	400	334	238	175	132	102	79	62
	18	7.1	8.3	8.4	400	400	312	232	177	138	109	86
4.5"	22	4.8	5.6	5.7	400	338	240	176	132	100	77	59
45 PSF	20	5.5	6.5	6.6	400	400	291	215	163	125	98	77
	18	6.8	7.9	8.0	400	400	382	285	218	170	134	108
5"	22	4.6	5.4	5.5	400	400	285	209	157	120	93	72
51 PSF	20	5.3	6.2	6.3	400	400	346	256	194	150	117	93
	18	6.5	7.6	7.7	400	400	400	340	260	203	161	129
5.5"	22	4.4	5.2	5.3	400	400	331	244	183	141	109	85
57 PSF	20	5.1	6.0	6.1	400	400	400	298	227	175	138	109
	18	6.2	7.3	7.4	400	400	400	396	304	238	189	152
6"	22	4.3	5.0	5.1	400	400	378	278	210	161	125	98
63 PSF	20	5.0	5.8	5.9	400	400	400	341	260	201	158	125
	18	6.0	7.0	7.1	400	400	400	400	348	273	217	175

1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE, 50KSI EZ 1.5" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	5	6	7	8	9	10	11	12
3.5"	22	6.5	7.7	7.8	400	341	244	181	138	107	84	67
33 PSF	20	7.6	9.4	9.4	400	400	293	219	168	124	93	72
	18	8.6	10.7	10.7	400	400	381	273	192	140	105	81
4"	22	6.2	7.3	7.4	400	400	311	231	176	137	109	87
39 PSF	20	7.2	8.7	8.9	400	400	373	279	214	168	134	108
	18	8.2	10.2	10.1	400	400	400	365	282	209	157	121
4.5"	22	5.9	7.0	7.0	400	400	380	283	216	169	134	107
45 PSF	20	6.9	8.3	8.5	400	400	400	342	263	207	165	133
	18	7.8	9.8	9.6	400	400	400	400	346	274	221	172
5"	22	5.7	6.7	6.8	400	400	400	336	258	201	160	128
51 PSF	20	6.6	7.9	8.1	400	400	400	400	313	247	197	160
	18	7.5	9.3	9.2	400	400	400	400	400	327	264	215
5.5"	22	5.5	6.4	6.5	400	400	400	390	300	235	186	150
57 PSF	20	6.3	7.6	7.8	400	400	400	400	365	287	230	186
	18	7.2	9.0	8.9	400	400	400	400	400	382	308	252
6"	22	5.3	6.2	6.3	400	400	400	400	342	268	214	172
63 PSF	20	6.1	7.3	7.5	400	400	400	400	400	329	264	214
	18	7.0	8.6	8.6	400	400	400	400	400	400	353	289

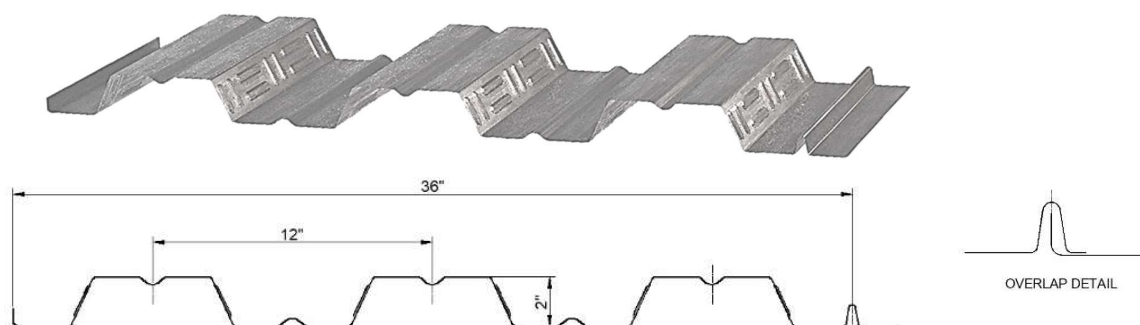
1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

4. MINIMUM BEARING LENGTHS FOR END AND INTERIOR SUPPORTS ARE 2" AND 4", RESPECTIVELY.

EZ 2" CONCRETE DECK



SECTION PROPERTIES											
YIELD STRESS KSI	GAUGE	THIKNE SS (in)	AREA (in2)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
					(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
					Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	22	0.0295	0.480	1.630	0.353	0.375	4.797	0.343	0.308	5.083	1523
	20	0.0358	0.582	1.978	0.453	0.460	6.353	0.440	0.406	6.700	1868
	18	0.0474	0.770	2.618	0.630	0.613	10.820	0.613	0.586	10.747	2456
50	22	0.0295	0.480	1.630	0.330	0.368	6.570	0.327	0.280	7.003	1923
	20	0.0358	0.582	1.978	0.427	0.453	8.750	0.417	0.371	9.273	2888

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & M_a IS ALLOWABLE BENDING DESIGN.

* M_a IS ALLOWABLE BENDING MOMENT AND V_a IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

ALLOWABLE WEB CRIPPLING LOADS, Pa (lb/ft)										
YIELD STRESS KSI	GAUGE	THICKNESS (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	22	0.0295	242	266	306	340	378	410	454	509
	20	0.0358	47	380	436	483	547	592	666	729
	18	0.0474	584	637	726	800	933	1004	1122	1222
50	22	0.0295	367	403	464	515	573	621	703	771
	20	0.0358	526	576	661	732	829	896	1009	1104

*TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

*ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

*MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE, 33KSI EZ 2" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F' C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	5	6	7	8	9	10	11	12
4"	22	6.1	7.1	7.2	400	273	193	141	106	80	62	47
	20	7.4	8.6	8.7	400	331	236	174	132	101	79	62
	18	10.4	11.1	11.5	400	400	311	231	177	138	109	87
4.5"	22	5.4	6.4	6.7	400	330	234	171	129	98	75	58
43 PSF	20	7.0	8.2	8.3	400	400	285	211	160	123	96	76
	18	9.8	10.6	10.9	400	400	376	280	214	167	132	106
5"	22	4.7	5.9	5.9	400	390	277	203	153	117	90	70
	20	6.7	7.8	7.9	400	400	337	250	189	146	115	90
49 PSF	18	9.4	10.1	10.4	400	400	400	331	254	198	157	126
5.5"	22	4.2	5.4	5.2	400	400	321	236	178	136	105	82
	20	6.4	7.5	7.6	400	400	391	290	220	170	134	106
	18	9.0	9.7	10.0	400	400	400	385	295	231	184	148
6"	22	3.8	5.0	4.7	400	400	366	270	203	156	121	94
	20	6.2	7.1	7.3	400	400	400	331	252	195	153	121
61 PSF	18	8.6	9.3	9.6	400	400	400	400	338	265	211	170
6.5"	22	3.4	4.7	4.3	400	400	400	304	230	176	137	107
	20	6.0	6.7	7.1	400	400	400	373	284	221	173	138
	18	8.3	9.0	9.3	400	400	400	400	381	299	238	192

1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE 50KSI EZ 2" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	5	6	7	8	9	10	11	12
4"	22	7.5	8.8	8.9	400	400	304	226	173	135	106	85
37 PSF	20	9.1	10.4	10.7	400	400	369	276	212	166	133	107
4.5"	22	7.2	8.4	8.5	400	400	368	274	210	164	130	104
43 PSF	20	8.6	9.9	10.2	400	400	400	334	257	202	161	130
5"	22	6.9	8.0	8.1	400	400	400	325	249	195	155	124
49 PSF	20	8.2	9.4	9.7	400	400	400	395	304	240	192	155
5.5"	22	6.6	7.7	7.8	400	400	400	377	289	227	180	145
55 PSF	20	7.9	9.0	9.3	400	400	400	400	354	279	223	181
6"	22	6.4	7.4	7.5	400	400	400	400	331	259	206	166
61 PSF	20	7.6	8.7	8.9	400	400	400	400	400	319	255	207
6.5"	22	6.1	7.1	7.2	400	400	400	400	373	292	233	188
67 PSF	20	7.3	8.4	8.6	400	400	400	400	400	359	288	234

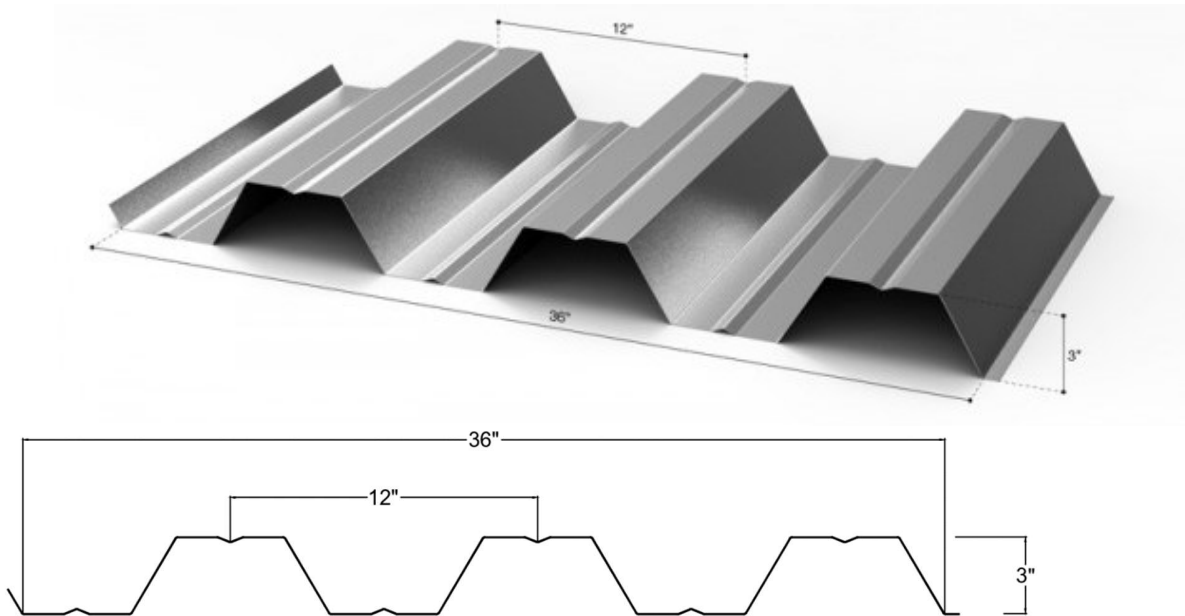
1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

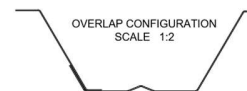
4. MINIMUM BEARING LENGTHS FOR END AND INTERIOR SUPPORTS ARE 2" AND 4", RESPECTIVELY.

EZ 3" B ROOF DECK



SPECIFICATIONS

- Rib height 3"
- 3" major ribs
- Allows designers to space out more the structural members.
- Coverage 36"
- Gauges 18, 20 and 22
- Galvanized G60 and G90



SECTION PROPERTIES											
YIELD STRESS KSI	GAUGE	THIKNE SS (in)	AREA (in2)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
					(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
					Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	22	0.0295	0.474	1.630	0.670	0.481	8.103	0.627	0.386	7.623	1422
	20	0.0358	0.585	1.978	0.837	0.587	10.263	0.790	0.496	9.803	2176
	18	0.0474	0.762	2.618	1.150	0.784	14.403	1.093	0.706	13.950	3688
50	22	0.0295	0.474	1.630	0.633	0.472	11.247	0.590	0.352	10.537	1545
	20	0.0358	0.575	1.978	0.793	0.577	14.283	0.747	0.453	13.577	2555
	18	0.0474	0.746	2.618	1.070	0.656	19.653	1.017	0.636	19.037	4465

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & Ma IS ALLOWABLE BENDING DESIGN.

* Ma IS ALLOWABLE BENDING MOMENT AND Va IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

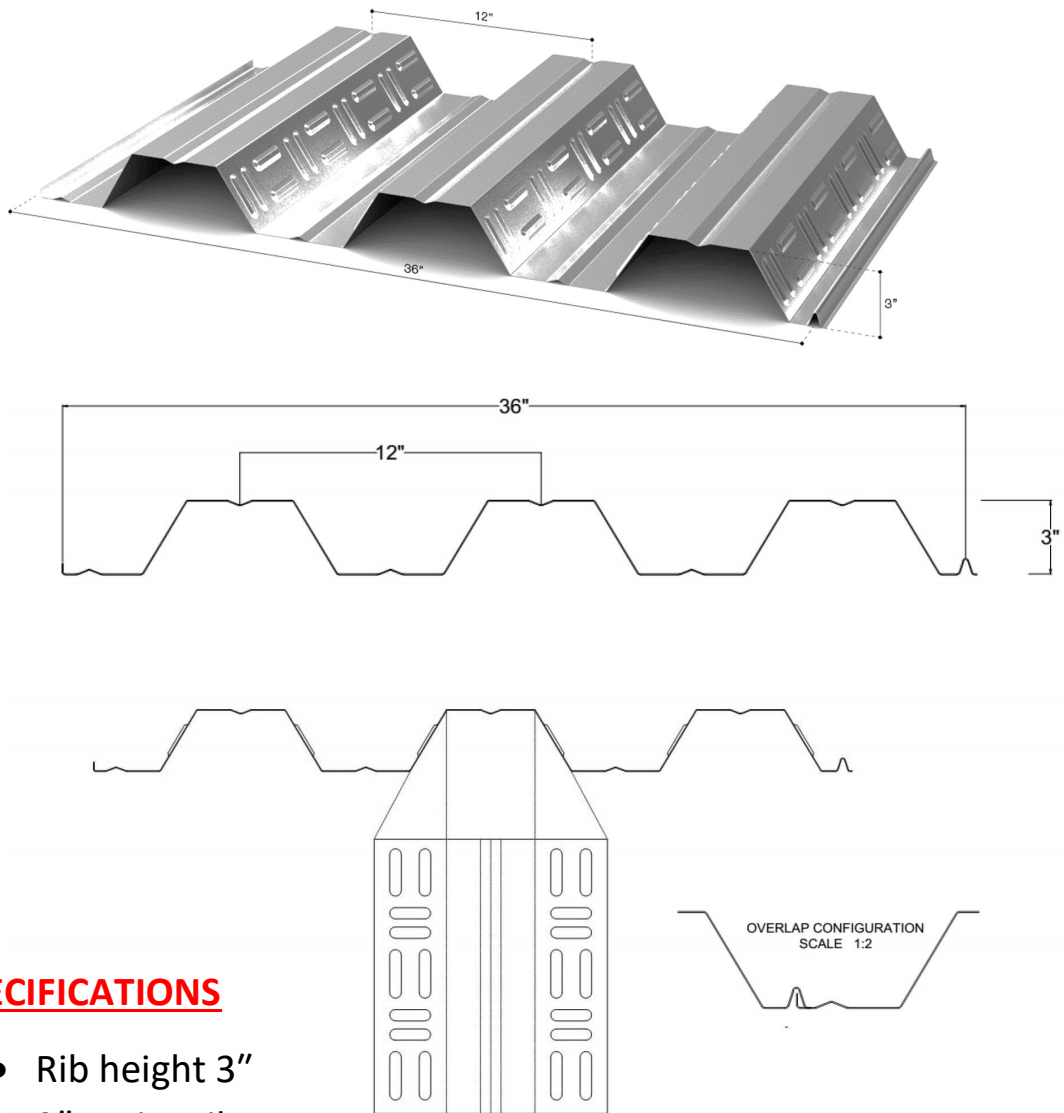
ALLOWABLE WEB CRIPPLING LOADS, Pa (lb/ft)										
YIELD STRESS KSI	GAUGE	THIKNES S (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	22	0.0295	218	239	275	306	380	412	466	512
	20	0.0358	314	344	395	437	546	591	665	728
	18	0.0474	533	582	662	731	924	994	1111	1210
50	22	0.0295	330	363	417	464	576	625	707	776
	20	0.0358	476	522	598	663	828	895	1008	1102
	18	0.0474	808	881	1004	1107	1400	1506	1683	1833

* TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

EZ 3" CONCRETE DECK



SPECIFICATIONS

- Rib height 3"
- 3" major ribs
- Embossments and special lap nesting detail to bond concrete and provide a composite floor system
- Allows designers to space out more the structural members.
- Coverage 36"
- Gauges 18, 20 and 22
- Galvanized G60 and G90

SECTION PROPERTIES											
YIELD STRESS KSI	GAUGE	THIKNE SS (in)	AREA (in2)	WEIGHT (psf)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION			SHEAR STRENGTH VA LB/FT
					(POSITIVE MOMENT)			(NEGATIVE MOMENT)			
					Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	Ixe(in4/ft)	Sxe(in3/ft)	Ma(in.kips/ft)	
33	22	0.0295	0.474	1.630	0.670	0.481	8.103	0.627	0.386	7.623	1422
	20	0.0358	0.585	1.978	0.837	0.587	10.263	0.790	0.496	9.803	2176
	18	0.0474	0.762	2.618	1.150	0.784	14.403	1.093	0.706	13.950	3688
50	22	0.0295	0.474	1.630	0.633	0.472	11.247	0.590	0.352	10.537	1545
	20	0.0358	0.575	1.978	0.793	0.577	14.283	0.747	0.453	13.577	2555
	18	0.0474	0.746	2.618	1.070	0.656	19.653	1.017	0.636	19.037	4465

* SECTION PROPERTIES AND ALLOWABLES ARE CALCULATED IN ACCORDANCE WITH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

* I +/- IS FOR DEFLECTION DETERMINATIONS, S +/- IS FOR BENDING DETERMINATION & Ma IS ALLOWABLE BENDING DESIGN.

* Ma IS ALLOWABLE BENDING MOMENT AND Va IS ALLOWABLE SHEAR STRENGTH OF PANEL WEB ELEMENTS.

* ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

* MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

ALLOWABLE WEB CRIPPLING LOADS, Pa (lb/ft)										
YIELD STRESS KSI	GAUGE	THIKNES S (in)	EXTERIOR				INTERIOR			
			BEARING LENGTH				BEARING LENGTH			
			1.5"	2"	3"	4"	1.5"	2"	3"	4"
33	22	0.0295	218	239	275	306	380	412	466	512
	20	0.0358	314	344	395	437	546	591	665	728
	18	0.0474	533	582	662	731	924	994	1111	1210
50	22	0.0295	330	363	417	464	576	625	707	776
	20	0.0358	476	522	598	663	828	895	1008	1102
	18	0.0474	808	881	1004	1107	1400	1506	1683	1833

*TABULATED VALUES ARE CALCULATED IN ACCORDANCE WITH SECTION G5 OF NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(2016 EDITION).

*ALL VALUES ARE FOR ONE FOOT OF PANEL WIDTH

*MINIMUM DELIVERABLE BARE STEEL THICKNESS SHOULD NOT BE LESS THAN 0.95 OF THE DESIGN THICKNESS.

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE, 33KSI EZ 3" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	6	7	8	9	10	11	12	13
5"	22	7.1	6.4	7.3	315	222	163	122	92	70	54	41
	20	9.5	9.1	10.3	382	272	200	151	116	90	71	55
	18	11.7	12.0	12.4	400	360	267	204	159	126	100	80
5.5"	22	6.3	5.9	6.6	368	261	191	143	109	83	64	49
	20	9.1	8.3	9.4	400	318	235	178	137	106	83	66
	18	11.1	11.5	11.8	400	400	313	239	187	148	118	95
6"	22	5.6	5.4	5.9	400	301	221	166	126	97	75	58
	20	8.7	7.6	8.7	400	367	271	206	159	124	97	77
	18	10.6	11.0	11.4	400	400	362	277	216	171	137	110
6.5"	22	5.0	5.0	5.3	400	343	252	189	144	111	86	66
	20	8.3	7.1	8.0	400	400	310	235	181	142	112	88
	18	10.2	10.6	10.9	400	400	400	316	247	196	157	127
7"	22	4.6	4.7	4.8	400	386	284	213	163	126	98	76
	20	8.0	6.6	7.5	400	400	349	265	205	160	127	100
	18	9.8	10.2	10.6	400	400	400	356	279	221	178	144
7.5"	22	4.2	4.4	4.4	400	400	316	238	183	141	110	85
	20	7.7	6.2	7.0	400	400	389	296	229	179	142	113
	18	9.5	9.9	10.2	400	400	400	398	311	248	199	161

1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/180 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

MAXIMUM UNSHORED CLEAR SPAN & ALLOWABLE SUPERIMPOSED LOAD 36" WIDE, 50 KSI EZ 3" PANEL WITH NORMAL WEIGHT (145 PCF) CONCRETE FILL (F'C=3000PSI)												
TOTAL SLAB DEPTH	GAUGE	MAXIMUM UNSHORED			SUPERIMPOSED LIVE LOAD (psf)							
		CLEAR SPAN (ft)			SPAN (ft)							
		1	2	3	7	8	9	10	11	12	13	14
5"	22	9.7	9.7	10.8	350	260	199	155	122	97	78	63
	20	11.5	11.9	12.3	400	317	244	191	152	123	100	81
	18	12.4	14.0	14.5	400	400	317	250	201	163	134	111
5.5"	22	8.5	8.9	10.1	400	306	234	182	144	115	93	75
	20	11.1	11.4	11.7	400	372	286	225	179	145	118	96
	18	12.0	13.4	13.8	400	400	371	294	236	192	158	131
6"	22	7.6	8.2	9.3	400	354	271	211	167	134	108	87
	20	10.6	10.9	11.3	400	400	331	260	208	168	137	112
	18	11.7	12.8	13.3	400	400	400	340	273	223	184	152
6.5"	22	6.9	7.6	8.6	400	400	309	241	191	153	124	100
	20	10.2	10.5	10.8	400	400	378	297	237	192	157	129
	18	11.4	12.4	12.8	400	400	400	388	312	255	210	175
7"	22	6.3	7.1	7.8	400	400	348	272	216	174	140	114
	20	9.8	10.0	10.5	400	400	400	335	268	217	177	146
	18	11.1	11.9	12.3	400	400	400	400	353	288	238	198
7.5"	22	5.8	6.6	7.2	400	400	388	304	242	194	157	128
	20	9.5	9.3	10.1	400	400	400	374	300	243	199	164
	18	10.8	11.7	11.9	400	400	400	400	394	322	266	222

1. SHORING CALCULATIONS ARE BASED ON DECK SUPPORTING DEAD LOAD OF CONCRETE AND METAL DECK PLUS 20 PSF UNIFORM CONSTRUCTION OR 150 POUNDS CONCENTRATED LOAD FOR FLEXURE. DEAD LOAD DEFLECTION LIMITED TO 1/80 OF SPAN OR 3/4" WHICHEVER IS SMALLER.

2. ONE ROW OF SHORING IS REQUIRED AT MIDSPAN IN EXCESS OF THESE VALUES.

3. TOTAL SLAB DEPTH IS NOMINAL DEPTH FROM THE TOP OF CONCRETE TO BOTTOM OF DECK

4. MINIMUM BEARING LENGTHS FOR END AND INTERIOR SUPPORTS ARE 2" AND 4", RESPECTIVELY.