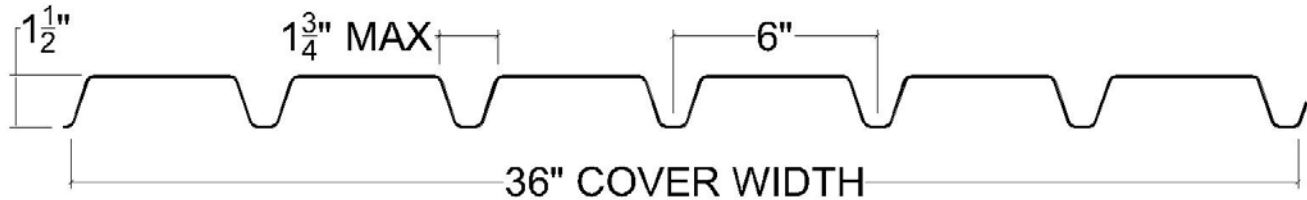


TYPE "F" INTERMEDIATE RIB DECK



SECTION PROPERTIES $F_y = 50$ KSI

DECK TYPE	DESIGN THICKNESS	WT PSF GALV	WT PSF PNTD	I^d+ IN. ⁴	I^d- IN. ⁴	S^e+ IN. ³	S^e- IN. ³	M^p/Ω IN. - LBS. PER FT.	M^N/Ω IN. - LBS. PER FT.
20	.0358 IN.	2.0	1.88	0.156	0.180	0.153	0.166	4569	4975
18	.0474 IN.	2.6	2.47	0.218	0.240	0.208	0.219	6228	6547
16	.0598 IN.	3.0	3.10	0.289	0.300	0.268	0.274	8014	8194

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
SINGLE	22	STRESS DOWNWARD	153	121	98	81	68	58	50	44	38	34	30
		STRESS UPWARD	171	135	110	91	76	65	56	49	43	38	34
		DEFLECTION L/240	127	89	65	49	37	29	24	19	16	13	11
	20	STRESS DOWNWARD	190	150	122	101	85	72	62	54	48	42	38
		STRESS UPWARD	207	164	133	110	92	79	68	59	52	46	41
		DEFLECTION L/240	160	112	82	61	47	37	30	24	20	17	14
	18	STRESS DOWNWARD	259	205	166	137	115	98	85	74	65	57	51
		STRESS UPWARD	273	216	175	144	121	103	89	78	68	60	54
		DEFLECTION L/240	223	157	114	86	66	52	42	34	28	23	20
	16	STRESS DOWNWARD	334	264	214	177	148	126	109	95	83	74	66
		STRESS UPWARD	341	270	218	181	152	129	111	97	85	76	67
		DEFLECTION L/240	296	208	152	114	88	69	55	45	37	31	26

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
DOUBLE	22	STRESS DOWNWARD	171	135	110	91	76	65	56	49	43	38	34
		STRESS UPWARD	153	121	98	81	68	58	50	44	38	34	30
		DEFLECTION L/240	305	214	156	117	90	71	57	46	38	32	27
	20	STRESS DOWNWARD	207	164	133	110	92	79	68	59	52	46	41
		STRESS UPWARD	190	150	122	101	85	72	62	54	48	42	38
		DEFLECTION L/240	384	270	197	148	114	90	72	58	48	40	34
	18	STRESS DOWNWARD	273	216	175	144	121	103	89	78	68	60	54
		STRESS UPWARD	259	205	166	137	115	98	85	74	65	57	51
		DEFLECTION L/240	538	378	275	207	159	125	100	82	67	56	47
	16	STRESS DOWNWARD	341	270	218	181	152	129	111	97	85	76	67
		STRESS UPWARD	334	264	214	177	148	126	109	95	83	74	66
		DEFLECTION L/240	714	501	365	274	211	166	133	108	89	74	63

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. FOR LOADS THAT CAUSE L/120 DEFLECTION, MULTIPLY BY 2.0. FOR LOADS THAT CAUSE L/180 DEFLECTION, MULTIPLY BY 1.5. FOR LOADS THAT CAUSE L/360 DEFLECTION, MULTIPLY BY 0.667.

TYPE "F" INTERMEDIATE

FY = 50 KSI

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
TRIPLE	22	STRESS DOWNWARD	214	169	137	113	95	81	70	61	54	47	42
		STRESS UPWARD	192	151	123	101	85	73	63	54	48	42	38
		DEFLECTION L/240	238	167	122	92	71	56	44	36	30	25	21
	20	STRESS DOWNWARD	259	205	166	137	115	98	85	74	65	57	51
		STRESS UPWARD	238	188	152	126	106	90	78	68	59	53	47
		DEFLECTION L/240	301	211	154	116	89	70	56	46	38	31	26
	18	STRESS DOWNWARD	341	269	218	180	152	129	111	97	85	76	67
		STRESS UPWARD	324	256	208	172	144	123	106	92	81	72	64
		DEFLECTION L/240	421	296	216	162	125	98	79	64	53	44	37
	16	STRESS DOWNWARD	427	337	273	226	190	162	139	121	107	95	84
		STRESS UPWARD	417	330	267	221	186	158	136	119	104	92	82
		DEFLECTION L/240	558	392	286	215	165	130	104	85	70	58	49

GAGE NUMBER	$\frac{V^n}{\Omega}$ LBS PER Ft	Web Crippling (R^n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R^n/Ω), lbs/ft One flange Loading Interior Bearing		
		1-1/2"	2"	3"	1-1/2"	2"	3"
22	2585	818	899	1036	1217	1320	1493
20	3155	1167	1278	1465	1759	1901	2140
18	4149	1948	2124	2420	2993	3219	3599
16	5197	2978	3234	3664	4642	4973	5527

ALL SECTION PROPERTIES AND ASD FLEXURAL STRENGTHS ARE CALCULATED IN ACCORDANCE WITH ANSI/SDI C-2017, ANSI/SDI SD-2022 AND AISI S100-2012 AND AISI S100-2016

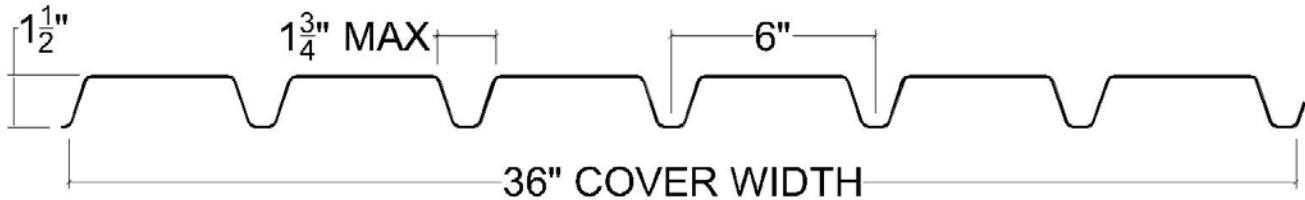
Span Cond.	GAGE NUMBER	ASD Span	ASD Cantilever Span
Single	22	6'- 02"	1'- 08"
	20	7'- 07"	2'- 01"
	18	10'- 05"	2'- 08"
	16	13'- 04"	3'- 04"
Double or Triple	22	7'- 07"	
	20	9'- 04"	
	18	12'- 09"	
	16	16'- 05"	

1. Roof deck section properties calculated in accordance with the AISI "Specification for the design of Cold-Formed Steel Structural Members."
2. Roof decks loads computed in accordance with the SDI bending moment and deflection formulas.
3. Loads shown in tables are uniformly distributed total (dead plus) loads in pounds per square foot. Loads in shaded area are governed by the live load deflection not in excess of L/240. The dead load included is 10 psf. All other loads are governed by the allowable flexural stress limit of 20,000 psi for 33,000 psi minimum yield.
4. Span lengths are considered center-to-center spacing of supports.
5. Spans which extend beyond the heavy vertical line in the load tables exceed the "Recommended Maximum spans for Construction and Maintenance Loads" shown on page 30.
6. Where heavy construction loads or other unusual concentrated loads are anticipated during the lifetime of the deck, the specified live load must be increased to offset the effects of the abnormal concentrated loading.

TYPE "F" INTERMEDIATE

FY = 50 KSI

TYPE "F" INTERMEDIATE RIB DECK



SECTION PROPERTIES FY = 60 KSI (Grade 80)

DECK TYPE	DESIGN THICKNESS	WT PSF	WT PSF	I ^{d+}	I ^{d-}	S ^{e+}	S ^{e-}	M ^p /Ω	M ⁿ /Ω
		GALV	PNTD	IN. ⁴	IN. ⁴	IN. ³	IN. ³	IN. - LBS. PER FT.	IN. - LBS. PER FT.
22	.0295 IN.	1.6	1.54	0.121	0.150	0.121	0.137	4357	4933
20	.0358 IN.	2.0	1.88	0.151	0.180	0.151	0.166	5413	5970
18	.0474 IN.	2.6	2.47	0.216	0.240	0.206	0.219	7389	7856
16	.0598 IN.	3.0	3.10	0.282	0.300	0.265	0.274	9521	9832

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
SINGLE	22	STRESS DOWNWARD	182	143	116	96	81	69	59	52	45	40	36
		STRESS UPWARD	206	162	132	109	91	78	67	58	51	46	41
		DEFLECTION L/240	124	87	64	48	37	29	23	19	16	13	11
	20	STRESS DOWNWARD	226	178	144	119	100	85	74	64	56	50	45
		STRESS UPWARD	249	197	159	132	111	94	81	71	62	55	49
		DEFLECTION L/240	155	109	79	60	46	36	29	24	19	16	14
	18	STRESS DOWNWARD	308	243	197	163	137	117	101	88	77	68	61
		STRESS UPWARD	327	259	210	173	145	124	107	93	82	72	65
		DEFLECTION L/240	221	155	113	85	66	52	41	34	28	23	19
	16	STRESS DOWNWARD	397	313	254	210	176	150	130	113	99	88	78
		STRESS UPWARD	410	324	262	217	182	155	134	117	102	91	81
		DEFLECTION L/240	290	203	148	111	86	67	54	44	36	30	25

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
DOUBLE	22	STRESS DOWNWARD	206	162	132	109	91	78	67	58	51	46	41
		STRESS UPWARD	182	143	116	96	81	69	59	52	45	40	36
		DEFLECTION L/240	299	210	153	115	89	70	56	45	37	31	26
	20	STRESS DOWNWARD	249	197	159	132	111	94	81	71	62	55	49
		STRESS UPWARD	226	178	144	119	100	85	74	64	56	50	45
		DEFLECTION L/240	373	262	191	144	111	87	70	57	47	39	33
	18	STRESS DOWNWARD	327	259	210	173	145	124	107	93	82	72	65
		STRESS UPWARD	308	243	197	163	137	117	101	88	77	68	61
		DEFLECTION L/240	532	374	273	205	158	124	99	81	67	55	47
	16	STRESS DOWNWARD	410	324	262	217	182	155	134	117	102	91	81
		STRESS UPWARD	397	313	254	210	176	150	130	113	99	88	78
		DEFLECTION L/240	697	490	357	268	207	162	130	106	87	73	61

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. FOR LOADS THAT CAUSE L/120 DEFLECTION, MULTIPLY BY 2.0. FOR LOADS THAT CAUSE L/180 DEFLECTION, MULTIPLY BY 1.5. FOR LOADS THAT CAUSE L/360 DEFLECTION, MULTIPLY BY 0.667.

TYPE "F" INTERMEDIATE

FY = 60 KSI (Grade 80)

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)						POUNDS PER SQUARE FOOT				
			4-0	4-06	5-00	5-06	6-00	6-06	7-00	7-06	8-00	8-06	9-00
TRIPLE	22	STRESS DOWNWARD	257	203	164	136	114	97	84	73	64	57	51
		STRESS UPWARD	227	179	145	120	101	86	74	65	57	50	45
		DEFLECTION L/240	234	164	120	90	69	55	44	36	29	24	21
	20	STRESS DOWNWARD	311	246	199	164	138	118	102	88	78	69	61
		STRESS UPWARD	282	223	180	149	125	107	92	80	70	62	56
		DEFLECTION L/240	292	205	150	112	87	68	55	44	37	30	26
	18	STRESS DOWNWARD	409	323	262	216	182	155	134	116	102	91	81
		STRESS UPWARD	385	304	246	204	171	146	126	109	96	85	76
		DEFLECTION L/240	417	293	213	160	123	97	78	63	52	43	37
	16	STRESS DOWNWARD	512	405	328	271	228	194	167	146	128	113	101
		STRESS UPWARD	496	392	317	262	220	188	162	141	124	110	98
		DEFLECTION L/240	546	383	279	210	162	127	102	83	68	57	48

GAGE NUMBER	$\frac{V^N}{\Omega}$ LBS PER FT	Web Crippling (R^N/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R^N/Ω), lbs/ft One flange Loading Interior Bearing		
		1-1/2"	2"	3"	1-1/2"	2"	3"
22	3010	982	1079	1243	1460	1584	1791
20	3786	1400	1534	1758	2110	2282	2568
18	4979	2338	2549	2904	3592	3863	4319
16	6236	3574	3881	4397	5571	5967	6632

ALL SECTION PROPERTIES AND ASD FLEXURAL STRENGTHS ARE CALCULATED IN ACCORDANCE WITH ANSI/SDI C-2017, ANSI/SDI SD-2022 AND AISI S100-2012 AND AISI S100-2016

Span Cond.	GAGE NUMBER	ASD Span	ASD Cantilever Span
Single	22	7'- 03"	2'- 00"
	20	9'- 00"	2'- 06"
	18	12'- 04"	3'- 03"
	16	15'- 10"	4'- 00"
Double or Triple	22	8'- 11"	
	20	11'- 01"	
	18	15'- 02"	
	16	19'- 06"	

1. Roof deck section properties calculated in accordance with the AISI "Specification for the design of Cold-Formed Steel Structural Members."
2. Roof decks loads computed in accordance with the SDI bending moment and deflection formulas.
3. Loads shown in tables are uniformly distributed total (dead plus) loads in pounds per square foot. Loads in shaded area are governed by the live load deflection not in excess of L/240. The dead load included is 10 psf. All other loads are governed by the allowable flexural stress limit of 20,000 psi for 33,000 psi minimum yield.
4. Span lengths are considered center-to-center spacing of supports.
5. Spans which extend beyond the heavy vertical line in the load tables exceed the "Recommended Maximum spans for Construction and Maintenance Loads" shown on page 30.
6. Where heavy construction loads or other unusual concentrated loads are anticipated during the lifetime of the deck, the specified live load must be increased to offset the effects of the abnormal concentrated loading.
7. The design stress for Grade 80 is 0.75 times the 80 ksi due to the low ductility of the steel