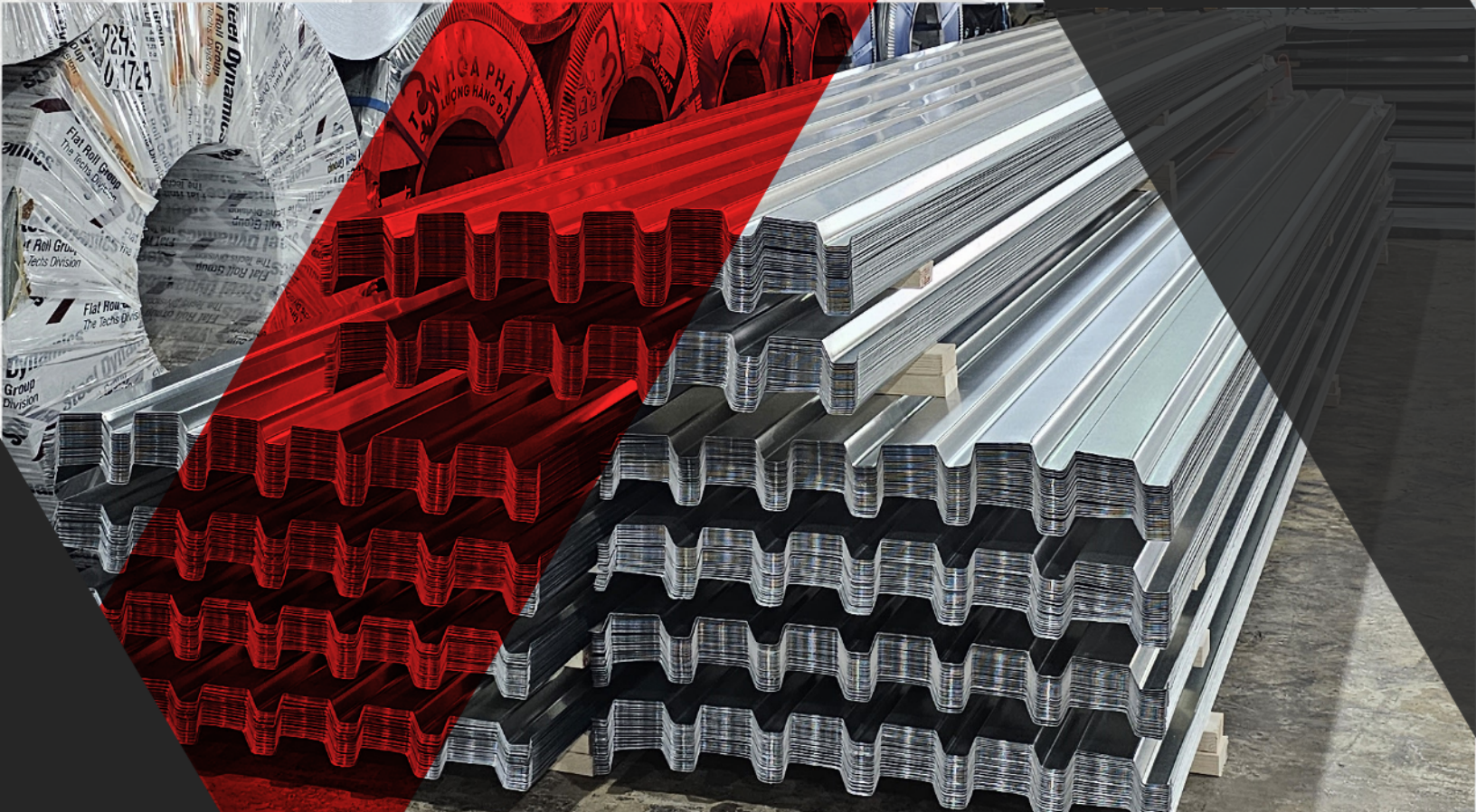


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STEEL DECK
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sdi
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ROOF DECK
FORM DECK

COMPOSITE DECK
STEEL PURLINS

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About Us

Our Journey

With 40 years of combined experience, MIAMI METAL DECK has established itself as a leading metal deck manufacturing company in Miami. From our humble beginnings as a small, family-operated business, we've grown into a renowned industry leader, always upholding the highest standards in metal decking manufacturing and distribution.

At MIAMI METAL DECK, we firmly believe that doing our job well is the key to success. We take pride in offering products and services of the highest quality, and we see the honest reward of making money as a reflection of our commitment and excellence. Of course, making money is important to us, but we view it as a natural by product of doing things right and satisfying our customers.



What Sets Us Apart

Strategic location

Situated in the Heart of South Florida

Our headquarters is strategically located in South Florida, allowing us to efficiently serve the region while simultaneously expanding our reach across the entirety of the United States. Being in one of the country's most dynamic areas allows us to stay at the forefront of the industry and respond quickly to our clients' needs.

Precision in Planning & Execution

Takeoff and Shop Drawings Services

We provide specialized takeoff services for accurate quotations and detailed shop drawings to produce optimized cutting lists for sheets, ensuring efficient execution and waste-free outcomes in your projects.

Delivering Excellence Coast to Coast

Swift Deliveries & Nationwide Reach

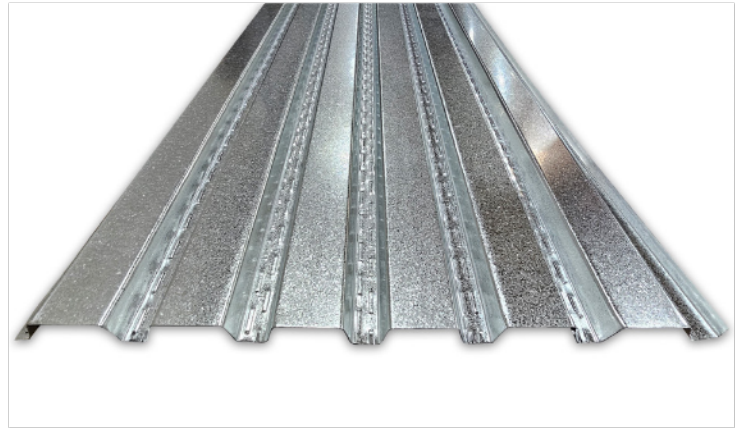
While our roots are in South Florida, our commitment and service have no bounds. Not only do we cater to clients throughout the entire U.S., consistently guaranteeing the level of quality and efficiency that defines us, but we also pride ourselves on our ability to ensure efficient and timely deliveries to every corner of the country.



ROOF, COMPOSITE & FORM DECK PRODUCTS

ROOF DECK

Roof Deck provides a durable surface for roofing materials while serving as a crucial structural member for lateral force distribution. Miami Metal Deck offers a wide range of profiles suitable for new builds, retrofits, or expansion projects, ensuring strength and flexibility.



COMPOSITE FLOOR DECK

A permanent form for concrete slab pours, available in 1.5", 2", and 3" profiles. Our Composite Floor Deck integrates with the concrete to create a high-strength floor system, ideal for multi-level buildings and heavy loads.

FORM DECK

Ideal for mezzanines and floor systems, our Form Deck serves as a temporary support for concrete until it hardens, providing structural integrity with minimal material use.

STEEL PURLINS

Our Steel Purlins, C and Z profiles, provide essential support for both roofing and walls in structural frameworks. Engineered for durability and load distribution, they ensure the integrity of commercial and industrial projects.



1.5" B MMD ROOF DECK

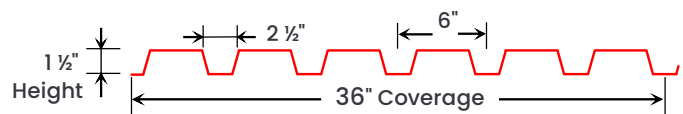
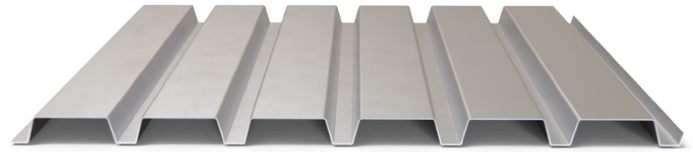
Wide Rib for Optimal Load Transfer

As specified by the SDI, the 1.5" B Roof Deck provides a structural base for supporting roof insulation and membrane, with strong resistance to seismic and wind loads.

Its wide rib design enhances lateral load transfer and optimizes coverage, reducing the number of panels required for faster and more cost-efficient installation.

Vented options are available to improve airflow and moisture control, ideal for projects using cementitious insulation.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi. Options: Painted and Vented.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.6	50	0.165	0.172	4939	5158	0.149	0.176
20	0.0358	2.0	50	0.221	0.222	6611	6656	0.189	0.218
18	0.0474	2.6	50	0.299	0.312	8962	9331	0.267	0.298
16	0.0598	3.0	50	0.386	0.394	11547	11806	0.356	0.378

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
				22	0.0295	50	2804	840	923
20	0.0358	50	3392	1194	1309	1500	1938	2095	2358
18	0.0474	50	4465	1988	2168	2470	3247	3493	3905
16	0.0598	50	5599	3032	3293	3730	4984	5339	5934

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.



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ASD Uniform Downward Loads (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Double	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Triple	22	50	172	142	119	102	88	76	67	59	53	48	43
	20	50	222	183	154	131	113	99	87	77	68	61	55
	18	50	311	257	216	184	159	138	122	108	96	86	78
	16	50	394	325	273	233	201	175	154	136	121	109	98

ASD Uniform Upward Loads (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Double	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Triple	22	50	165	136	114	97	84	73	64	57	51	46	41
	20	50	220	182	153	130	112	98	86	76	68	61	55
	18	50	299	247	207	177	152	133	117	103	92	83	75
	16	50	385	318	267	228	196	171	150	133	119	107	96

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports. Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.



Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	78	59	45	36	29	23	19	16	13	11	10
	20	50	99	75	57	45	36	29	24	20	17	14	12
	18	50	140	105	81	64	51	42	34	29	24	20	18
	16	50	187	140	108	85	68	55	46	38	32	27	23
Double	22	50	188	141	109	86	69	56	46	38	32	27	24
	20	50	239	179	138	109	87	71	58	49	41	35	30
	18	50	337	253	195	153	123	100	82	69	58	49	42
	16	50	450	338	260	205	164	133	110	92	77	66	56
Triple	22	50	147	111	85	67	54	44	36	30	25	21	18
	20	50	187	140	108	85	68	55	46	38	32	27	23
	18	50	264	198	153	120	96	78	64	54	45	38	33
	16	50	352	264	204	160	128	104	86	72	60	51	44

Note: 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.

Roof Deck Construction Spans

Span Cond.	Gage	ASD Span	ASD Cantilever Span
Single	22	8'-03"	2'-02"
	20	11'-00"	2'-09"
	18	14'-11"	3'-10"
	16	19'-03"	4'-10"
Double Or Triple	22	10'-02"	
	20	13'-07"	
	18	18'-05"	
	16	23'-08"	

Note:

1. All construction load spans are calculated using a 200 pound service load on a 1 foot width of deck, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.

2. All cantilever construction load spans are calculated using a 200 pound service load on a 1 foot width of deck and a 10 psf uniform distributed load, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.



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1.5" B MMD VENTED ROOF DECK

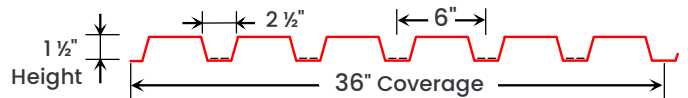
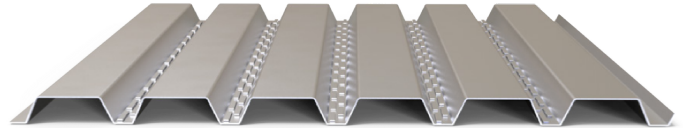
Vented Design for Efficient Concrete Drying

The 1.5" B Vented Roof Deck is designed to enhance structural support while facilitating the efficient drainage of lightweight concrete.

The vented slots allow excess water to escape, accelerating the drying process and ensuring a high-quality concrete finish.

Its wide rib profile maximizes load transfer and coverage, making it an ideal choice for commercial roofing applications that use cementitious insulation.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.6	50	0.165	0.172	4939	5158	0.149	0.176
20	0.0358	2.0	50	0.221	0.222	6611	6656	0.189	0.218
18	0.0474	2.6	50	0.299	0.312	8962	9331	0.267	0.298
16	0.0598	3.0	50	0.386	0.394	11547	11806	0.356	0.378

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
				22	0.0295	50	2804	840	923
20	0.0358	50	3392	1194	1309	1500	1938	2095	2358
18	0.0474	50	4465	1988	2168	2470	3247	3493	3905
16	0.0598	50	5599	3032	3293	3730	4984	5339	5934

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

ASD Uniform Downward Loads (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Double	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Triple	22	50	172	142	119	102	88	76	67	59	53	48	43
	20	50	222	183	154	131	113	99	87	77	68	61	55
	18	50	311	257	216	184	159	138	122	108	96	86	78
	16	50	394	325	273	233	201	175	154	136	121	109	98

ASD Uniform Upward Loads (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Double	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Triple	22	50	165	136	114	97	84	73	64	57	51	46	41
	20	50	220	182	153	130	112	98	86	76	68	61	55
	18	50	299	247	207	177	152	133	117	103	92	83	75
	16	50	385	318	267	228	196	171	150	133	119	107	96

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.



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Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	Fy	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	7'- 6"	8'- 0"	8'- 6"	9'- 0"	9'- 6"	10'- 0"
Single	22	50	78	59	45	36	29	23	19	16	13	11	10
	20	50	99	75	57	45	36	29	24	20	17	14	12
	18	50	140	105	81	64	51	42	34	29	24	20	18
	16	50	187	140	108	85	68	55	46	38	32	27	23
Double	22	50	188	141	109	86	69	56	46	38	32	27	24
	20	50	239	179	138	109	87	71	58	49	41	35	30
	18	50	337	253	195	153	123	100	82	69	58	49	42
	16	50	450	338	260	205	164	133	110	92	77	66	56
Triple	22	50	147	111	85	67	54	44	36	30	25	21	18
	20	50	187	140	108	85	68	55	46	38	32	27	23
	18	50	264	198	153	120	96	78	64	54	45	38	33
	16	50	352	264	204	160	128	104	86	72	60	51	44

Note: 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.

Roof Deck Construction Spans

Span Cond.	Gage	ASD Span	ASD Cantilever Span
Single	22	8'-03"	2'-02"
	20	11'-00"	2'-09"
	18	14'-11"	3'-10"
	16	19'-03"	4'-10"
Double Or Triple	22	10'-02"	
	20	13'-07"	
	18	18'-05"	
	16	23'-08"	

Note:

1. All construction load spans are calculated using a 200 pound service load on a 1 foot width of deck, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.
2. All cantilever construction load spans are calculated using a 200 pound service load on a 1 foot width of deck and a 10 psf uniform distributed load, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.

3" N MMD ROOF DECK

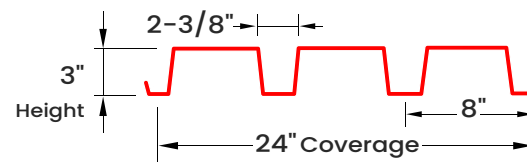
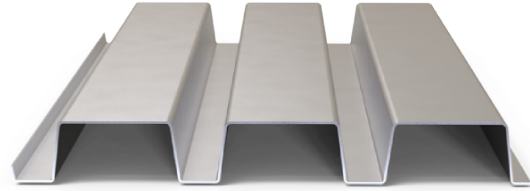
Long-Span and Structural Efficiency

The 3" N Roof Deck is engineered for long-span roofing applications where support spacing exceeds the limits of 'B' type decking.

With a 3" rib height and 24" coverage, it delivers exceptional load capacity and rigidity, reducing the need for additional support members and lowering construction costs.

Its deep profile ensures reliable structural performance, making it ideal for large commercial and industrial roofs.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi. Options: Painted.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.8	50	0.342	0.376	10246	11247	0.645	0.778
20	0.0358	2.2	50	0.447	0.499	13385	14945	0.805	0.982
18	0.0474	2.9	50	0.642	0.708	19229	21189	1.119	1.344
16	0.0598	3.7	50	0.833	0.902	24925	27010	1.482	1.705

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft			Web Crippling (R_n/Ω), lbs/ft		
				One Flange Loading End Bearing			One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
22	0.0295	50	2804	583	641	738	942	1022	1156
20	0.0358	50	3392	840	920	1055	1363	1474	1659
18	0.0474	50	4465	1421	1549	1765	2324	2500	2794
16	0.0598	50	5599	2192	2380	2696	3608	3865	4296

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.



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ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"	17'-00"	18'-00"	19'-00"	20'-00"
Single	22	50	68	56	47	40	35	30	27	24	21	19	17
	20	50	89	74	62	53	46	40	35	31	28	25	22
	18	50	128	106	89	76	65	57	50	44	40	36	32
	16	50	166	137	115	98	85	74	65	57	51	46	42
Double	22	50	75	62	52	44	38	33	29	26	23	21	19
	20	50	100	82	69	59	51	44	39	34	31	28	25
	18	50	141	117	98	84	72	63	55	49	44	39	35
	16	50	180	149	125	107	92	80	70	62	56	50	45
Triple	22	50	94	77	65	55	48	42	37	32	29	26	23
	20	50	125	103	86	74	64	55	49	43	38	34	31
	18	50	177	146	123	104	90	78	69	61	54	49	44
	16	50	225	186	156	133	115	100	88	78	69	62	56

ASD Uniform Superimposed Upward Loads (psf)

Span Cond.	Gage	F _y (ksi)	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"	17'-00"	18'-00"	19'-00"	20'-00"
Single	22	50	75	62	52	44	38	33	29	26	23	21	19
	20	50	100	82	69	59	51	44	39	34	31	28	25
	18	50	141	117	98	84	72	63	55	49	44	39	35
	16	50	180	149	125	107	92	80	70	62	56	50	45
Double	22	50	68	56	47	40	35	30	27	24	21	19	17
	20	50	89	74	62	53	46	40	35	31	28	25	22
	18	50	128	106	89	76	65	57	50	44	40	36	32
	16	50	166	137	115	98	85	74	65	57	51	46	42
Triple	22	50	85	71	59	51	44	38	33	30	26	24	21
	20	50	112	92	77	66	57	50	44	39	34	31	28
	18	50	160	132	111	95	82	71	63	55	49	44	40
	16	50	208	172	144	123	106	92	81	72	64	58	52

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"	17'-00"	18'-00"	19'-00"	20'-00"
Single	22	50	42	32	25	19	15	13	10	9	7	6	5
	20	50	53	40	31	24	19	16	13	11	9	8	7
	18	50	73	55	43	33	27	22	18	15	13	11	9
	16	50	97	73	56	44	35	29	24	20	17	14	12
Double	22	50	102	77	59	46	37	30	25	21	17	15	13
	20	50	127	96	74	58	46	38	31	26	22	19	16
	18	50	177	133	102	81	64	52	43	36	30	26	22
	16	50	234	176	136	107	85	69	57	48	40	34	29
Triple	22	50	80	60	46	36	29	24	19	16	14	12	10
	20	50	100	75	58	45	36	30	24	20	17	15	12
	18	50	138	104	80	63	50	41	34	28	24	20	17
	16	50	183	138	106	83	67	54	45	37	31	27	23

Note: 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 0.67.

Roof Deck Construction Spans

Span Cond.	Gage	ASD Span	ASD Cantilever Span
Single	22	17'-01"	4'-07"
	20	22'-04"	6'-01"
	18	32'-01"	8'-06"
	16	41'-07"	10'-09"
Double Or Triple	22	21'-00"	
	20	27'-05"	
	18	39'-05"	
	16	51'-02"	

Note:

1. All construction load spans are calculated using a 200 pound service load on a 1 foot width of deck, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.

2. All cantilever construction load spans are calculated using a 200 pound service load on a 1 foot width of deck and a 10 psf uniform distributed load, in accordance with ANSI/SDI RD-2017 and ANSI/SDI SD-2022.



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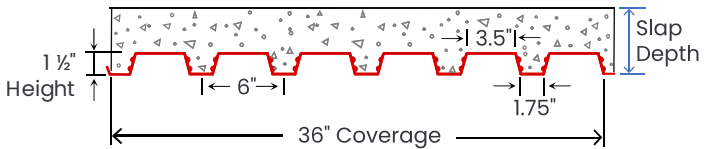
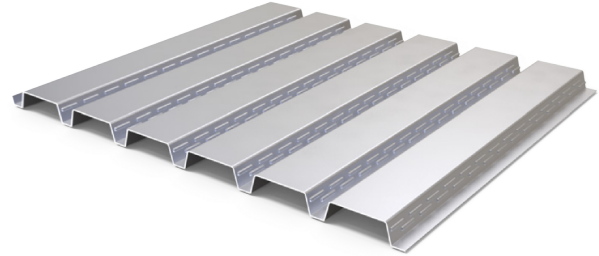
1.5" MMD COMPOSITE DECK

Formwork & Reinforcement

The 1.5" Composite Deck is widely used in flooring systems due to its dual functionality as both a formwork during concrete placement and a reinforcement element for the concrete slab.

The embossed ribs on the deck are designed to interlock securely with the concrete, creating a composite structure that enhances the slab's overall strength and rigidity.

This deck type is ideal for multi-story buildings and other structures requiring a strong, reliable base for floors.



Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi.

Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.7	50	0.165	0.172	4939	5158	0.149	0.176
20	0.0358	2.1	50	0.221	0.222	6611	6656	0.189	0.218
18	0.0474	2.7	50	0.299	0.312	8962	9331	0.267	0.298
16	0.0598	3.4	50	0.386	0.394	11547	11806	0.356	0.378

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
22	0.0295	50	2804	840	923	1063	1357	1472	1665
20	0.0358	50	3392	1194	1309	1500	1938	2095	2358
18	0.0474	50	4465	1988	2168	2470	3247	3493	3905
16	0.0598	50	5599	3032	3293	3730	4984	5339	5934

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"	7'-06"	8'-00"	8'-06"	9'-00"	9'-06"	10'-00"
Single	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Double	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Triple	22	50	172	142	119	102	88	76	67	59	53	48	43
	20	50	222	183	154	131	113	99	87	77	68	61	55
	18	50	311	257	216	184	159	138	122	108	96	86	78
	16	50	394	325	273	233	201	175	154	136	121	109	98

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"	7'-06"	8'-00"	8'-06"	9'-00"	9'-06"	10'-00"
Single	22	50	78	59	45	36	29	23	19	16	13	11	10
	20	50	99	75	57	45	36	29	24	20	17	14	12
	18	50	140	105	81	64	51	42	34	29	24	20	18
	16	50	187	140	108	85	68	55	46	38	32	27	23
Double	22	50	188	141	109	86	69	56	46	38	32	27	24
	20	50	239	179	138	109	87	71	58	49	41	35	30
	18	50	337	253	195	153	123	100	82	69	58	49	42
	16	50	450	338	260	205	164	133	110	92	77	66	56
Triple	22	50	147	111	85	67	54	44	36	30	25	21	18
	20	50	187	140	108	85	68	55	46	38	32	27	23
	18	50	264	198	153	120	96	78	64	54	45	38	33
	16	50	352	264	204	160	128	104	86	72	60	51	44

Note: 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.



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Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50" (t=2.00) 31 psf	22	6' 3"	7' 4"	7' 5"
	20	7' 8"	8' 11"	9' 1"
	18	8' 8"	10' 6"	10' 11"
	16	9' 6"	11' 10"	12' 3"
4.00" (t=2.50) 37 psf	22	6' 0"	7' 0"	7' 1"
	20	7' 3"	8' 6"	8' 7"
	18	8' 3"	10' 0"	10' 4"
	16	9' 1"	11' 3"	11' 8"
4.50" (t=3.00) 43 psf	22	5' 9"	6' 8"	6' 9"
	20	7' 1"	8' 6"	8' 9"
	18	7' 10"	9' 7"	9' 11"
	16	8' 8"	10' 9"	11' 1"
5.00" (t=3.50) 49 psf	22	5' 6"	6' 5"	6' 6"
	20	6' 8"	7' 9"	7' 10"
	18	7' 7"	9' 2"	9' 6"
	16	8' 4"	10' 4"	10' 8"
5.50" (t=4.00) 55 psf	22	5' 4"	6' 3"	6' 3"
	20	6' 5"	7' 5"	7' 7"
	18	7' 4"	8' 10"	9' 1"
	16	8' 0"	9' 11"	10' 3"
6.00" (t=4.50) 61 psf	22	5' 2"	6' 0"	6' 1"
	20	6' 3"	7' 2"	7' 4"
	18	7' 1"	8' 6"	8' 9"
	16	7' 9"	9' 7"	9' 11"

Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span
3.50" (t=2.00) 23 psf	22	7' 1"	8' 5"	8' 6"
	20	8' 9"	10' 2"	10' 6"
	18	10' 1"	12' 0"	12' 5"
	16	11' 1"	13' 6"	14' 0"
4.00" (t=2.50) 28 psf	22	6' 9"	7' 11"	8' 1"
	20	8' 3"	9' 7"	9' 10"
	18	9' 5"	11' 5"	11' 9"
	16	10' 4"	12' 10"	13' 3"
4.50" (t=3.00) 33 psf	22	6' 5"	7' 7"	7' 8"
	20	8' 0"	9' 9"	10' 0"
	18	8' 11"	10' 10"	11' 2"
	16	9' 10"	12' 2"	12' 7"
5.00" (t=3.50) 37 psf	22	6' 3"	7' 4"	7' 5"
	20	7' 7"	8' 10"	9' 0"
	18	8' 7"	10' 5"	10' 10"
	16	9' 5"	11' 9"	12' 2"
5.50" (t=4.00) 42 psf	22	6' 0"	7' 0"	7' 1"
	20	7' 3"	8' 6"	8' 7"
	18	8' 3"	10' 0"	10' 4"
	16	9' 1"	11' 3"	11' 8"
6.00" (t=4.50) 46 psf	22	5' 10"	6' 10"	6' 11"
	20	7' 1"	8' 2"	8' 4"
	18	8' 0"	9' 9"	10' 0"
	16	8' 9"	10' 11"	11' 3"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Fy: 50 ksi		f'c : 3000 psi						Normal Weight Concrete (145 pcf)							
		Weight (psf)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
3.5"	22	31	400	400	400	365	312	268	233	204	179	365	141	126	112	101	91
	20	31	400	400	400	400	374	323	281	246	217	400	171	153	138	124	112
	18	31	400	400	400	400	377	326	283	248	219	400	173	155	139	125	113
	16	31	400	400	400	400	366	315	274	240	212	400	167	150	134	121	109
4"	22	37	400	400	400	400	391	337	293	256	225	400	177	158	142	127	115
	20	37	400	400	400	400	400	400	353	309	273	400	216	193	174	156	141
	18	37	400	400	400	400	400	400	357	313	276	400	219	196	176	158	143
	16	37	400	400	400	400	400	398	347	304	268	400	212	190	170	153	139
4.5"	22	43	400	400	400	400	400	400	355	311	274	400	216	193	173	155	140
	20	43	400	400	400	400	400	400	400	376	332	400	263	235	211	191	173
	18	43	400	400	400	400	400	400	400	381	337	400	266	239	215	194	175
	16	43	400	400	400	400	400	400	400	371	328	400	259	232	209	188	170
5"	22	49	400	400	400	400	400	400	400	367	323	400	255	228	204	184	166
	20	49	400	400	400	400	400	400	400	400	392	400	311	279	251	226	205
	18	49	400	400	400	400	400	400	400	400	399	400	316	283	255	230	208
	16	49	400	400	400	400	400	400	400	400	389	400	308	276	248	224	203
5.5"	22	55	400	400	400	400	400	400	400	400	374	400	295	264	237	213	192
	20	55	400	400	400	400	400	400	400	400	400	400	360	323	291	262	238
	18	55	400	400	400	400	400	400	400	400	400	400	367	329	296	268	242
	16	55	400	400	400	400	400	400	400	400	400	400	359	322	289	261	237
6"	22	61	400	400	400	400	400	400	400	400	400	400	336	301	210	243	220
	20	61	400	400	400	400	400	400	400	400	400	400	400	368	331	299	271
	18	61	400	400	400	400	400	400	400	400	400	400	400	376	338	306	277
	16	61	400	400	400	400	400	400	400	400	400	400	400	368	331	299	271

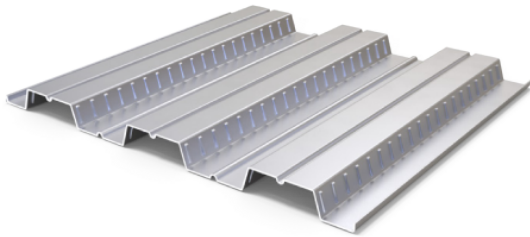
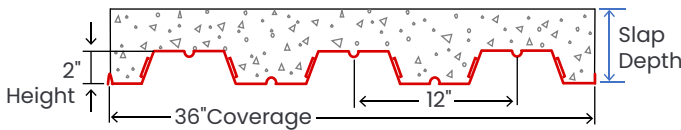
Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Weight (psf)	F _y : 50 ksi		f'c : 3000 psi				Lightweight Concrete (115 pcf)								
			5'-0"	5'-6"	6'-0"	6'-5"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
3.5"	22	23	400	400	400	354	302	261	228	200	200	176	156	139	125	112	101
	20	23	400	400	400	400	361	312	272	239	211	188	168	151	136	123	111
	18	3	400	400	400	400	362	313	273	240	212	189	168	151	136	123	112
	16	3	400	400	400	395	338	292	255	224	198	176	157	141	127	114	104
4"	22	28	400	400	400	400	380	329	286	252	251	222	197	176	157	142	128
	20	28	400	400	400	400	400	393	343	301	266	237	212	190	171	155	141
	18	28	400	400	400	400	400	395	345	303	268	238	213	191	172	156	142
	16	28	400	400	400	400	400	382	333	293	259	230	206	184	166	150	136
4.5"	22	33	400	400	400	400	400	399	348	306	305	270	240	214	192	172	156
	20	33	400	400	400	400	400	400	400	367	324	289	258	232	209	189	172
	18	33	400	400	400	400	400	400	400	370	327	291	260	234	211	191	173
	16	33	400	400	400	400	400	400	400	358	317	282	252	226	204	184	167
5"	22	37	400	400	400	400	400	400	400	363	362	320	284	254	228	205	185
	20	37	400	400	400	400	400	400	400	400	385	343	307	276	249	225	205
	18	37	400	400	400	400	400	400	400	400	390	347	310	279	252	228	207
	16	37	400	400	400	400	400	400	400	400	378	337	301	271	244	221	201
5.5"	22	42	400	400	400	400	400	400	400	400	400	371	329	294	264	238	215
	20	42	400	400	400	400	400	400	400	400	400	398	356	320	289	261	238
	18	42	400	400	400	400	400	400	400	400	400	400	361	324	293	265	241
	16	42	400	400	400	400	400	400	400	400	400	393	351	316	285	258	234
6"	22	46	400	400	400	400	400	400	400	400	400	400	376	336	302	272	246
	20	46	400	400	400	400	400	400	400	400	400	400	400	366	330	299	272
	18	46	400	400	400	400	400	400	400	400	400	400	400	372	336	304	276
	16	46	400	400	400	400	400	400	400	400	400	400	400	363	327	297	269

2" MMD COMPOSITE DECK Formwork & Reinforcement

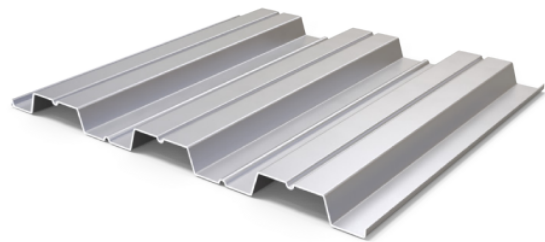
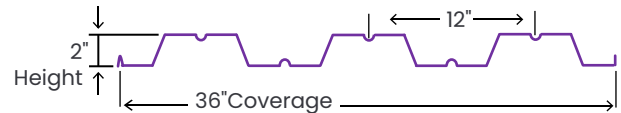
The 2" Composite Deck serves as formwork during concrete placement and provides reinforcement once the concrete sets. Its embossed ribs interlock with the concrete, creating a composite structure that resists seismic and wind loads.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel.
F_y = 50 ksi.



2" MMD FORM DECK Steel Formwork

The 2" Form Deck is a temporary formwork designed to support wet concrete during placement and curing. Once the concrete sets, the deck remains in place, providing additional stability.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F _y (ksi)	S _{e+} (in ³ per foot)	S _{e-} (in ³ per foot)	ASD (Ω = 1.67)		I _{d+} (in ⁴ per foot)	I _{d-} (in ⁴ per foot)
						M _p /Ω (inch-lbs per foot)	M _n /Ω (inch-lbs per foot)		
22	0.0295	1.7	50	0.232	0.248	6931	7438	0.298	0.277
20	0.0358	2.1	50	0.309	0.328	9251	9830	0.378	0.353
18	0.0474	2.7	50	0.466	0.490	13942	14681	0.529	0.503
16	0.0598	3.4	50	0.624	0.629	18693	18822	0.682	0.670

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F _y (ksi)	V _n /Ω (lbs per foot)	Web Crippling (R _n /Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R _n /Ω), lbs/ft One Flange Loading Interior Bearing		
				2"	3"	4"	2"	3"	4"
				22	0.0295	50	1994	413	476
20	0.0358	50	2792	589	675	748	924	1041	1139
18	0.0474	50	3676	983	1120	1235	1558	1742	1897
16	0.0598	50	4611	1501	1700	1868	2400	2667	2893

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.



ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	6'-00"	7'-00"	8'-00"	9'-00"	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"
Single	22	50	128	94	72	57	46	38	32	27	24	21	18
	20	50	171	126	96	76	62	51	43	36	31	27	24
	18	50	258	190	145	115	93	77	65	55	47	41	36
	16	50	346	254	195	154	125	103	87	74	64	55	49
Double	22	50	138	101	77	61	50	41	34	29	25	22	19
	20	50	182	134	102	81	66	54	46	39	33	29	26
	18	50	272	200	153	121	98	81	68	58	50	43	38
	16	50	349	256	196	155	125	104	87	74	64	56	49
Triple	22	50	172	126	97	77	62	51	43	37	32	28	24
	20	50	228	167	128	101	82	68	57	48	42	36	32
	18	50	340	250	191	151	122	101	85	72	62	54	48
	16	50	436	320	245	194	157	130	109	93	80	70	61

Notes:

- All I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports. Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	6'-00"	7'-00"	8'-00"	9'-00"	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"
Single	22	50	84	53	35	25	18	14	11	8	7	5	4
	20	50	107	68	45	32	23	17	13	11	8	7	6
	18	50	153	96	65	45	33	25	19	15	12	10	8
	16	50	204	128	86	60	44	33	25	20	16	13	11
Double	22	50	202	128	85	60	44	33	25	20	16	13	11
	20	50	259	163	109	77	56	42	32	25	20	17	14
	18	50	368	232	155	109	80	60	46	36	29	24	19
	16	50	490	309	207	145	106	80	61	48	39	31	26
Triple	22	50	158	100	67	47	34	26	20	16	12	10	8
	20	50	202	127	85	60	44	33	25	20	16	13	11
	18	50	288	182	122	85	62	47	36	28	23	18	15
	16	50	384	242	162	114	83	62	48	38	30	25	20

Note: 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.

Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)					Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span			Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span			1 span	2 span	3 span
4.00" (t=2.00) 39 psf	22	7' 8"	9' 0"	9' 1"	4.00" (t=2.00) 31psf	22	8' 4"	9' 9"	9' 10"
	20	9' 4"	10' 6"	10' 11"		20	10' 1"	11' 4"	11' 9"
	18	10' 7"	12' 11"	13' 4"		18	11' 5"	13' 10"	14' 4"
	16	11' 6"	14' 7"	15' 1"		16	12' 5"	15' 8"	16' 3"
4.50" (t=2.50) 45 psf	22	7' 4"	8' 7"	8' 8"	4.50" (t=2.50) 35 psf	22	7' 12"	9' 4"	9' 5"
	20	8' 10"	10' 0"	10' 5"		20	9' 8"	10' 11"	11' 3"
	18	10' 1"	12' 3"	12' 8"		18	11' 0"	13' 4"	13' 9"
	16	11' 0"	13' 11"	14' 4"		16	11' 11"	15' 1"	15' 7"
5.00" (t=3.00) 51 psf	22	7' 0"	8' 2"	8' 3"	5.00" (t=3.00) 39 psf	22	7' 8"	9' 0"	9' 1"
	20	8' 9"	10' 6"	10' 10"		20	9' 7"	11' 7"	12' 0"
	18	9' 8"	11' 9"	12' 2"		18	10' 7"	12' 11"	13' 4"
	16	10' 6"	13' 4"	13' 9"		16	11' 6"	14' 7"	15' 1"
5.50" (t=3.50) 57 psf	22	6' 9"	7' 10"	7' 11"	5.50" (t=3.50) 44 psf	22	7' 5"	8' 8"	8' 9"
	20	8' 1"	9' 3"	9' 6"		20	8' 11"	10' 1"	10' 6"
	18	9' 4"	11' 3"	11' 8"		18	10' 2"	12' 4"	12' 9"
	16	10' 2"	12' 9"	13' 2"		16	11' 1"	14' 0"	14' 6"
6.00" (t=4.00) 63 psf	22	6' 6"	7' 7"	7' 8"	6.00" (t=4.00) 48 psf	22	7' 2"	8' 4"	8' 6"
	20	7' 10"	8' 11"	9' 2"		20	8' 8"	9' 10"	10' 2"
	18	9' 0"	10' 10"	11' 3"		18	9' 11"	12' 0"	12' 5"
	16	9' 10"	12' 4"	12' 9"		16	10' 9"	13' 7"	14' 0"
6.50" (t=4.50) 69 psf	22	6' 4"	7' 4"	7' 5"	6.50" (t=4.50) 53 psf	22	6' 11"	8' 1"	8' 2"
	20	7' 6"	8' 7"	8' 10"		20	8' 4"	9' 6"	9' 9"
	18	8' 9"	10' 6"	10' 10"		18	9' 7"	11' 7"	12' 0"
	16	9' 6"	11' 10"	12' 3"		16	10' 5"	13' 1"	13' 7"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Weight (psf)	F _y : 50 ksi				f'c : 3000 psi				Normal Weight Concrete (145 pcf)							
			7'- 0"	7'- 6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	
4"	22	39	324	280	243	213	187	166	148	132	118	106	96	86	78	71	64	
	20	39	392	338	295	258	228	202	181	162	145	131	119	108	98	89	81	
	18	39	400	400	386	340	300	267	239	215	194	175	159	145	132	121	111	
	16	39	400	400	400	400	374	333	298	269	243	220	200	183	167	154	141	
4.5"	22	45	400	394	295	259	228	202	180	161	144	130	117	106	96	87	79	
	20	45	400	400	358	314	277	246	220	197	177	160	145	131	119	109	99	
	18	45	400	400	400	400	364	324	290	261	235	213	194	177	161	148	136	
	16	45	400	400	400	400	400	400	362	326	295	268	244	222	204	187	172	
5"	22	51	400	400	350	307	270	240	213	191	171	154	139	126	114	104	95	
	20	51	400	400	400	372	328	292	260	234	210	190	172	156	142	130	119	
	18	51	400	400	400	400	400	385	344	309	279	253	230	210	192	176	161	
	16	51	400	400	400	400	400	400	400	387	350	318	289	264	242	223	205	
5.5"	22	57	400	400	400	356	314	278	248	222	199	180	162	147	134	121	111	
	20	57	400	400	400	400	381	339	303	272	245	221	200	182	166	151	139	
	18	57	400	400	400	400	400	400	400	360	325	295	268	244	223	205	188	
	16	57	400	400	400	400	400	400	400	400	400	370	337	308	282	259	239	
6"	22	63	400	400	400	400	359	318	284	254	228	206	186	169	153	139	127	
	20	63	400	400	400	400	400	387	346	311	280	253	229	209	190	174	159	
	18	63	400	400	400	400	400	400	400	400	372	337	307	280	256	235	216	
	16	63	400	400	400	400	400	400	400	400	400	400	386	353	324	297	274	
6.5"	22	69	400	400	400	400	400	359	320	286	257	232	210	190	173	158	144	
	20	69	400	400	400	400	400	400	390	350	316	285	259	236	215	196	180	
	18	69	400	400	400	400	400	400	400	400	400	400	381	346	316	289	265	244
	16	69	400	400	400	400	400	400	400	400	400	400	400	400	399	366	336	310

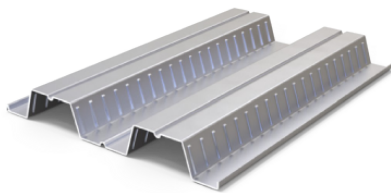
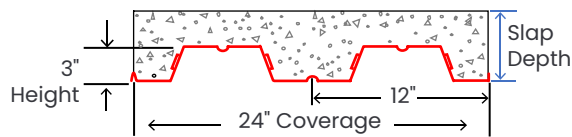
Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Fy: 50 ksi		f'c : 3000 psi						Lightweight Concrete (115 pcf)								
		Weight (psf)	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	
4"	22	31	315	272	237	208	184	163	145	130	117	106	96	87	79	72	66	
	20	31	379	328	286	251	222	198	177	159	143	129	117	107	97	89	81	
	18	31	400	400	372	328	290	259	232	209	188	171	155	142	130	119	110	
	16	31	400	400	400	400	359	320	287	259	234	213	194	177	163	150	138	
4.5"	22	35	384	332	289	254	224	199	178	159	144	130	117	107	97	89	81	
	20	35	400	399	348	306	271	241	215	194	175	158	144	131	119	109	100	
	18	35	400	400	400	398	353	315	282	254	230	208	190	173	159	146	134	
	16	35	400	400	400	400	400	389	349	315	285	259	236	216	199	183	168	
5"	22	39	400	394	344	302	267	237	212	190	171	155	140	128	116	106	97	
	20	39	400	400	400	364	322	287	256	231	208	188	171	156	143	131	120	
	18	39	400	400	400	400	400	374	336	302	273	248	226	207	189	174	160	
	16	39	400	400	400	400	400	400	400	375	340	309	282	258	237	218	201	
5.5"	22	44	400	400	399	351	310	276	246	221	199	180	163	149	136	124	113	
	20	44	400	400	400	374	333	298	268	242	220	200	182	166	152	140		
	18	44	400	400	400	400	400	400	391	352	318	289	264	241	221	203	187	
	16	44	400	400	400	400	400	400	400	400	396	360	329	301	276	254	235	
6"	22	48	400	400	400	400	355	316	282	254	229	207	188	171	156	143	131	
	20	48	400	400	400	400	400	382	342	308	278	252	229	209	191	175	161	
	18	48	400	400	400	400	400	400	400	400	365	332	303	277	254	233	215	
	16	48	400	400	400	400	400	400	400	400	400	400	377	346	318	292	270	
6.5"	22	53	400	400	400	400	400	356	319	286	258	234	212	193	176	161	148	
	20	53	400	400	400	400	400	400	386	347	314	284	259	236	216	198	182	
	18	53	400	400	400	400	400	400	400	400	400	400	375	342	313	287	264	243
	16	53	400	400	400	400	400	400	400	400	400	400	400	391	359	331	306	

3" MMD COMPOSITE DECK Formwork & Reinforcement

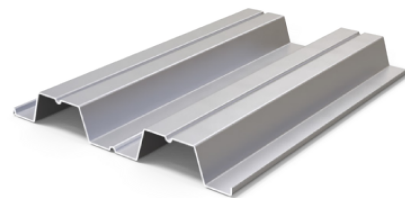
The 3" Composite Deck acts as formwork during concrete placement and provides structural reinforcement once the concrete cures. Its ribs interlock with the concrete, improving resistance to wind and seismic loads.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi.



3" MMD FORM DECK Steel Formwork

The 3" Form Deck is used as a temporary formwork for concrete slabs. Once the concrete sets, the deck remains in place, offering added stability.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.7	50	0.389	0.436	11636	13066	0.756	0.712
20	0.0358	2.1	50	0.574	0.574	15470	17184	0.955	0.909
18	0.0474	2.7	50	0.778	0.842	23281	25223	1.335	1.289
16	0.0598	3.4	50	1.077	1.078	32243	32265	1.752	1.720

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				2"	3"	4"	2"	3"	4"
22	0.0295	50	1791	417	480	533	666	754	827
20	0.0358	50	2852	599	686	760	961	1082	1184
18	0.0474	50	4897	1008	1149	1267	1629	1822	1984
16	0.0598	50	6370	1549	1755	1929	2520	2800	3037

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	7'-00"	8'-00"	9'-00"	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"	17'-00"
Single	22	50	158	121	96	78	64	54	46	40	34	30	27
	20	50	210	161	127	103	85	72	61	53	46	40	36
	18	50	317	243	192	155	128	108	92	79	69	61	54
	16	50	439	336	265	215	178	149	127	110	96	84	74
Double	22	50	178	136	108	87	72	60	52	44	39	34	30
	20	50	234	179	141	115	95	80	68	58	51	45	40
	18	50	343	263	208	168	139	117	99	86	75	66	58
	16	50	439	336	266	215	178	149	127	110	96	84	74
Triple	22	50	222	170	134	109	90	76	64	56	48	43	38
	20	50	292	224	177	143	118	99	85	73	64	56	50
	18	50	429	328	259	210	174	146	124	107	93	82	73
	16	50	549	420	332	269	222	187	159	137	119	105	93

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	7'-00"	8'-00"	9'-00"	10'-00"	11'-00"	12'-00"	13'-00"	14'-00"	15'-00"	16'-00"	17'-00"
Single	22	50	136	91	64	47	35	27	21	17	14	11	10
	20	50	174	117	82	60	45	35	27	22	18	15	12
	18	50	247	165	116	85	64	49	19	31	25	21	17
	16	50	329	221	155	113	85	65	25	41	33	28	23
Double	22	50	328	220	154	112	84	65	25	41	33	27	23
	20	50	419	281	197	144	108	83	32	52	43	35	29
	18	50	594	398	279	204	153	118	46	74	60	50	41
	16	50	793	531	373	272	204	157	61	99	81	66	55
Triple	22	50	257	172	121	88	66	51	20	32	26	21	18
	20	50	328	220	154	112	84	65	25	41	33	27	23
	18	50	465	311	219	159	120	92	36	58	47	39	32
	16	50	620	416	292	213	160	123	48	78	63	52	43

Note: 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.



Member

MIAMI METAL DECK

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Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)					Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span			Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span			1 span	2 span	3 span
5.00" (t=2.00) 44 psf	22	10' 4"	11' 8"	12' 1"	5.00" (t=2.00) 34 psf	22	11' 4"	12' 8"	13' 2"
	20	12' 3"	13' 5"	13' 10"		20	13' 6"	14' 7"	15' 1"
	18	13' 10"	16' 3"	16' 9"		18	15' 1"	17' 8"	18' 3"
	16	15' 2"	18' 4"	18' 11"		16	16' 6"	19' 11"	20' 8"
5.50" (t=2.50) 50 psf	22	9' 10"	11' 2"	11' 6"	5.50" (t=2.50) 39 psf	22	10' 9"	12' 2"	12' 7"
	20	11' 8"	12' 10"	13' 3"		20	12' 10"	13' 11"	14' 5"
	18	13' 3"	15' 6"	16' 0"		18	14' 5"	16' 11"	17' 5"
	16	14' 6"	17' 6"	18' 1"		16	15' 9"	19' 1"	19' 9"
6.00" (t=3.00) 56 psf	22	9' 5"	10' 8"	11' 0"	6.00" (t=3.00) 43 psf	22	10' 5"	11' 9"	12' 2"
	20	11' 8"	13' 4"	13' 10"		20	12' 8"	14' 9"	15' 3"
	18	12' 4"	14' 10"	15' 4"		18	13' 11"	16' 4"	16' 11"
	16	13' 6"	16' 10"	17' 5"		16	15' 3"	18' 6"	19' 1"
6.50" (t=3.50) 62 psf	22	9' 0"	10' 4"	10' 7"	6.50" (t=3.50) 48 psf	22	9' 12"	11' 4"	11' 8"
	20	10' 8"	11' 2"	12' 3"		20	11' 10"	13' 0"	13' 5"
	18	12' 4"	14' 11"	14' 10"		18	13' 5"	15' 9"	16' 3"
	16	13' 6"	16' 5"	16' 9"		16	14' 9"	17' 9"	18' 5"
7.00" (t=4.00) 68 psf	22	8' 8"	9' 10"	10' 2"	7.00" (t=4.00) 52 psf	22	9' 8"	11' 0"	11' 4"
	20	10' 4"	11' 8"	11' 10"		20	11' 6"	12' 7"	13' 0"
	18	12' 11"	13' 10"	14' 3"		18	13' 1"	15' 3"	15' 10"
	16	13' 1"	15' 8"	16' 2"		16	14' 4"	17' 3"	17' 10"
7.50" (t=4.50) 74 psf	22	8' 5"	9' 8"	9' 10"	7.50" (t=4.50) 57 psf	22	9' 4"	10' 8"	10' 11"
	20	9' 11"	11' 0"	11' 5"		20	11' 1"	12' 2"	12' 7"
	18	11' 8"	13' 4"	13' 10"		18	12' 8"	14' 9"	15' 3"
	16	12' 9"	15' 2"	15' 8"		16	13' 11"	16' 9"	17' 3"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Fy: 50 ksi		f'c : 3000 psi						Normal Weight Concrete (145 pcf)							
		Weight (psf)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
5"	22	44	324	284	251	223	199	178	160	144	130	118	107	98	89	81	74
	20	44	393	346	306	272	243	202	196	177	161	146	133	122	112	102	94
	18	44	393	346	306	272	243	267	196	177	161	146	133	122	112	102	94
	16	44	400	400	400	360	323	333	262	238	216	197	181	166	152	140	129
5.5"	22	44	400	400	400	400	202	331	301	274	251	230	211	195	180	166	
	20	50	381	334	295	262	233	246	188	169	153	139	126	115	105	96	88
	18	50	400	400	358	319	285	324	230	208	189	172	157	143	131	120	111
	16	50	400	400	358	319	285	400	230	208	189	172	157	143	131	120	111
6"	22	50	400	400	400	400	377	240	307	278	253	231	212	194	179	165	152
	20	50	400	400	400	400	400	292	386	351	320	293	268	247	228	210	195
	18	56	400	386	341	303	270	385	218	196	178	161	147	134	122	112	102
	16	56	400	400	400	368	329	400	267	241	219	199	182	166	152	140	129
6.5"	22	56	400	400	400	368	329	278	267	241	219	199	182	166	152	140	129
	20	56	400	400	400	400	400	339	355	322	293	267	245	225	207	190	176
	18	56	400	400	400	400	400	400	400	400	369	338	310	285	263	243	225
	16	62	400	400	389	346	308	400	249	225	203	185	168	153	140	128	117
7"	22	62	400	400	400	400	376	318	304	275	250	228	208	190	174	160	147
	20	62	400	400	400	400	376	387	304	275	250	228	208	190	174	160	147
	18	62	400	400	400	400	400	400	400	367	334	305	280	257	236	218	201
	16	62	400	400	400	400	400	400	400	400	400	385	354	325	300	277	257
7.5"	22	68	400	400	400	390	348	359	304	254	230	209	190	173	158	145	133
	20	68	400	400	400	400	400	400	343	311	282	257	235	215	197	181	167
	18	68	400	400	400	400	400	400	343	311	282	257	235	215	197	181	167
	16	68	400	400	400	400	400	400	400	400	377	344	316	290	267	246	227



Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Weight (psf)	Fy: 50 ksi				f'c : 3000 psi				Lightweight Concrete (115 pcf)						
			8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
5"	22	34	317	278	246	219	196	176	158	143	130	118	108	99	90	83	76
	20	34	382	336	298	265	238	214	193	175	159	145	133	122	112	103	95
	18	34	400	400	391	349	313	282	256	232	212	194	178	163	150	139	128
	16	34	400	400	400	400	392	354	320	292	266	244	224	206	190	176	163
5.5"	22	39	372	327	289	257	230	206	186	168	153	139	127	116	106	98	90
	20	39	400	394	349	311	279	251	226	205	187	170	156	143	131	121	111
	18	39	400	400	400	400	366	330	299	272	248	226	208	191	176	163	150
	16	39	400	400	400	400	400	400	373	340	310	284	261	240	222	205	191
6"	22	43	400	379	335	298	267	240	216	196	178	162	148	135	124	114	105
	20	43	400	400	400	360	323	291	263	238	217	198	181	166	153	141	130
	18	43	400	400	400	400	400	382	346	314	287	262	241	221	204	189	175
	16	43	400	400	400	400	400	400	400	392	358	328	302	278	257	238	221
6.5"	22	48	400	400	382	340	305	274	247	224	203	185	169	155	142	130	120
	20	48	400	400	400	400	368	332	300	272	248	226	207	190	175	161	149
	18	48	400	400	400	400	400	400	395	359	327	299	275	253	233	215	199
	16	48	400	400	400	400	400	400	400	400	400	375	344	317	293	271	252
7"	22	52	400	400	400	385	344	310	279	253	230	210	192	176	161	148	137
	20	52	400	400	400	400	400	375	339	308	280	256	234	215	198	182	169
	18	52	400	400	400	400	400	400	400	400	370	339	311	286	264	244	226
	16	52	400	400	400	400	400	400	400	400	400	400	389	359	332	307	285
7.5"	22	57	400	400	400	400	384	346	312	283	257	234	214	196	180	166	153
	20	57	400	400	400	400	400	400	379	344	313	286	262	240	221	204	189
	18	57	400	400	400	400	400	400	400	400	400	378	347	320	295	273	253
	16	57	400	400	400	400	400	400	400	400	400	400	400	400	371	344	319

9/16" MMD FORM DECK

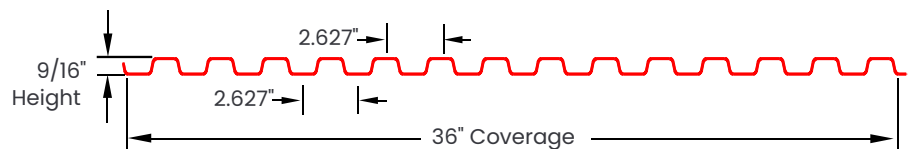
Lightweight Concrete Formwork

The 9/16" Standard Form Deck is commonly used as formwork for lightweight concrete slabs in commercial and industrial applications.

With a low rib height and 36" coverage, it offers efficient and cost-effective structural support.

Made from 60 ksi galvanized steel, it ensures durability and corrosion resistance, making it ideal for low-traffic

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 80$ ksi.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
28	0.0149	0.8	80	0.035	0.036	1061	1084	0.012	0.012
26	0.0179	1.0	80	0.046	0.047	1666	1703	0.015	0.015
24	0.0239	1.2	80	0.069	0.070	2469	2532	0.021	0.021
22	0.0295	1.4	80	0.090	0.090	3231	3230	0.027	0.027
20	0.0295	1.6	80	0.108	0.108	3880	3880	0.033	0.033

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
				28	0.0149	80	1031	772	858
26	0.0179	80	1059	1072	1187	1381	1361	1489	1704
24	0.0239	80	1391	1793	1978	2287	2377	2588	2942
22	0.0295	80	1691	2608	2867	3301	3552	3853	4358
20	0.0295	80	2016	3683	4035	4625	5127	5543	6240

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.



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ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	2'-00"	2'-06"	3'-00"	3'-06"	4'-00"	4'-06"	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"
Single	28	80	177	113	79	58	44	35	28	23	20	17	14
	26	80	278	178	123	91	69	55	44	37	31	26	23
	24	80	412	263	183	134	103	81	66	54	46	39	34
	22	80	539	345	239	176	135	106	86	71	60	51	44
	20	80	647	414	287	211	162	128	103	86	72	61	53
Double	28	80	216	138	96	71	54	43	35	29	24	20	18
	26	80	284	182	126	93	71	56	45	38	32	27	23
	24	80	422	270	188	138	105	83	68	56	47	40	34
	22	80	538	345	239	176	135	106	86	71	60	51	44
	20	80	647	414	287	211	162	128	103	86	72	61	53
Triple	28	80	270	173	120	88	68	53	43	36	30	26	22
	26	80	355	227	158	116	89	70	57	47	39	34	29
	24	80	527	338	234	172	132	104	84	70	59	50	43
	22	80	673	431	299	220	168	133	108	89	75	64	55
	20	80	808	517	359	264	202	160	129	107	90	77	66

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
 - Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
- Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
 - Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	2'-00"	2'-06"	3'-00"	3'-06"	4'-00"	4'-06"	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"
Single	26	80	102	52	30	19	13	9	7	5	4	3	2
	24	80	126	64	37	23	16	11	8	6	5	4	3
	22	80	173	89	51	32	22	15	11	8	6	5	4
	20	80	219	112	65	41	27	19	14	11	8	6	5
	26	80	274	140	81	51	34	24	18	13	10	8	6
Double	24	80	246	126	73	46	31	22	16	12	9	7	6
	22	80	303	155	90	57	38	27	19	15	11	9	7
	20	80	417	214	124	78	52	37	27	20	15	12	10
	26	80	527	270	156	98	66	46	34	25	20	15	12
	24	80	659	337	195	123	82	58	42	32	24	19	15
Triple	22	80	192	99	57	36	24	17	12	9	7	6	4
	20	80	237	121	70	44	30	21	15	11	9	7	6
	26	80	326	167	97	61	41	29	21	16	12	10	8
	24	80	412	211	122	77	52	36	26	20	15	12	10
	22	80	515	264	153	96	64	45	33	25	19	15	12

Note: 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 0.67.

Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)					Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span			Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span			1 span	2 span	3 span
2.00" (t=1.50) 23 PSF	28	2' 0"	2' 6"	2' 6"	2.00" (t=1.50) 19 psf	28	2' 1"	4' 3"	2' 7"
	26	3' 0"	3' 7"	3' 8"		26	3' 1"	6' 11"	3' 9"
	24	4' 2"	5' 0"	5' 0"		24	4' 4"	8' 6"	5' 3"
	22	4' 8"	6' 1"	5' 0"		22	5' 0"	9' 11"	6' 6"
	20	5' 0"	7' 0"	7' 1"		20	5' 4"	4' 1"	7' 6"
2.50" (t=2.00) 29 PSF	28	2' 0"	2' 5"	2' 5"	2.50" (t=2.00) 23 psf	28	2' 0"	6' 6"	2' 6"
	26	2' 11"	3' 6"	3' 6"		26	3' 0"	8' 0"	3' 8"
	24	4' 0"	4' 9"	4' 9"		24	4' 2"	9' 3"	5' 0"
	22	4' 4"	5' 9"	5' 10"		22	4' 8"	3' 11"	6' 2"
	20	4' 8"	6' 7"	6' 8"		20	5' 0"	6' 10"	7' 1"
3.00" (t=2.50) 35 PSF	28	1' 11"	2' 4"	2' 4"	3.00" (t=2.50) 28 psf	28	2' 0"	7' 7"	2' 5"
	26	3' 3"	4' 0"	4' 1"		26	3' 6"	8' 9"	4' 4"
	24	3' 9"	4' 6"	4' 7"		24	4' 0"	3' 10"	4' 10"
	22	4' 1"	5' 6"	5' 7"		22	4' 4"	6' 1"	5' 11"
	20	4' 4"	6' 3"	6' 4"		20	4' 8"	7' 4"	6' 9"
3.50" (t=3.00) 41 PSF	28	1' 11"	2' 3"	2' 3"	3.50" (t=3.00) 33 psf	28	1' 11"	8' 6"	2' 4"
	26	2' 8"	3' 3"	3' 3"		26	2' 10"	3' 9"	3' 5"
	24	3' 7"	4' 4"	4' 5"		24	3' 10"	5' 10"	4' 8"
	22	3' 10"	5' 3"	5' 4"		22	4' 2"	7' 0"	5' 8"
	20	4' 2"	6' 0"	6' 1"		20	4' 5"	8' 1"	6' 6"
4.00" (t=3.50) 47 PSF	28	1' 10"	2' 2"	2' 3"	4.00" (t=3.50) 38 psf	28	1' 11"	2' 3"	2' 4"
	26	2' 7"	3' 1"	3' 2"		26	2' 9"	3' 3"	3' 4"
	24	3' 5"	4' 2"	4' 3"		24	3' 8"	4' 5"	4' 6"
	22	3' 8"	5' 1"	5' 1"		22	3' 11"	5' 5"	5' 5"
	20	4' 0"	5' 9"	5' 10"		20	4' 3"	6' 1"	6' 2"
4.50" (t=4.00) 53 PSF	28	1' 9"	2' 2"	2' 2"	4.50" (t=4.00) 42 psf	28	1' 10"	2' 3"	2' 3"
	26	2' 7"	3' 0"	3' 1"		26	2' 8"	3' 2"	3' 3"
	24	3' 3"	4' 0"	4' 1"		24	3' 6"	4' 4"	4' 4"
	22	3' 6"	4' 10"	4' 11"		22	3' 10"	5' 3"	5' 3"
	20	3' 10"	5' 6"	5' 7"		20	4' 1"	5' 11"	6' 0"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

1" MMD FORM DECK

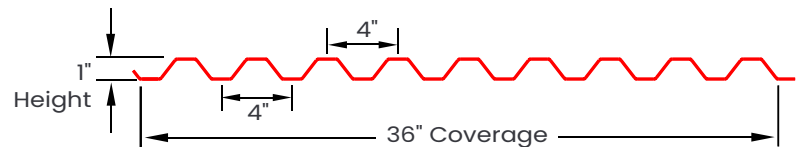
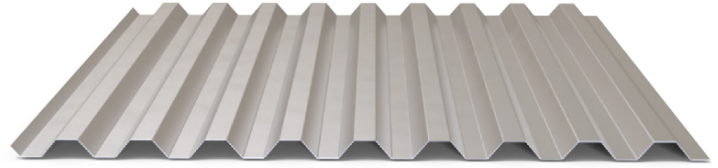
Heavy-Duty Concrete Formwork

The 1" Form Deck Type HD is designed for heavy-duty concrete applications, providing a durable, permanent steel base for concrete slabs.

With a 1" rib height and 36" coverage, it is ideal for commercial and industrial floors and roofs, offering quick installation and reducing labor costs.

Made from galvanized steel, it ensures excellent corrosion resistance and long-term performance.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 80$ ksi.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
26	0.0179	0.9	80	0.066	0.067	1965	2005	0.039	0.038
24	0.0239	1.2	80	0.099	0.101	3574	3636	0.054	0.054
22	0.0295	1.5	80	0.130	0.132	4674	4726	0.070	0.068
20	0.0358	1.8	80	0.161	0.160	5774	5743	0.087	0.084

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
				26	0.0179	80	1497	491	543
24	0.0239	80	2478	823	908	1050	1211	1318	1499
22	0.0295	80	3327	1214	1334	1536	1813	1967	2225
20	0.0358	80	4049	1722	1887	2163	2606	2817	3172

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI NC-2017, ANSI/SDI SD-2022, and AISI S100-2012 and AISI S100-2016.



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ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	F _y (ksi)	2'-00"	2'-06"	3'-00"	3'-06"	4'-00"	4'-06"	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"
Single	26	80	328	210	146	107	82	65	52	43	36	31	27
	24	80	596	381	265	194	149	118	95	79	66	56	49
	22	80	779	499	346	254	195	154	125	103	87	74	64
	20	80	962	616	428	314	241	190	154	127	107	91	79
Double	26	80	400	256	178	131	100	79	64	53	44	38	33
	24	80	606	388	269	198	151	120	97	80	67	57	49
	22	80	788	504	350	257	197	156	126	104	88	75	64
	20	80	957	613	425	313	239	189	153	127	106	91	78
Triple	26	80	500	320	222	163	125	99	80	66	56	47	41
	24	80	757	485	337	247	189	150	121	100	84	72	62
	22	80	985	630	438	321	246	194	158	130	109	93	80
	20	80	1196	766	532	391	299	236	191	158	133	113	98

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports. Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	F _y (ksi)	2'-00"	2'-06"	3'-00"	3'-06"	4'-00"	4'-06"	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"
Single	26	80	316	162	93	59	39	28	20	15	12	9	7
	24	80	447	229	132	83	56	39	29	21	17	13	10
	22	80	556	285	165	104	70	49	36	27	21	16	13
	20	80	556	355	205	129	87	61	44	33	26	20	16
Double	26	80	760	389	225	142	95	67	49	37	28	22	18
	24	80	1076	551	319	201	134	94	69	52	40	31	25
	22	80	1339	686	397	250	167	118	86	64	50	39	31
	20	80	1669	854	494	311	209	146	107	80	62	49	39
Triple	26	80	594	304	176	111	74	52	38	29	22	17	14
	24	80	842	431	249	157	105	74	54	40	31	25	20
	22	80	1048	537	311	196	131	92	67	50	39	31	24
	20	80	1306	669	387	244	163	115	84	63	48	38	30

Note: 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 0.67.

Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)					Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span			Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span			1 span	2 span	3 span
2.50" (t=1.50) 25 psf	26	3' 5"	4' 1"	4' 2"	2.50" (t=1.50) 19 psf	26	3' 7"	4' 3"	4' 4"
	24	5' 6"	6' 6"	6' 7"		24	5' 10"	6' 11"	7' 0"
	22	6' 3"	7' 11"	8' 0"		22	6' 10"	8' 6"	8' 7"
	20	6' 9"	9' 2"	9' 3"		20	7' 4"	9' 11"	10' 0"
3.00" (t=2.00) 31 psf	26	3' 3"	3' 11"	3' 11"	3.00" (t=2.00) 24 psf	26	3' 5"	4' 1"	4' 2"
	24	5' 2"	6' 1"	6' 2"		24	5' 6"	6' 6"	6' 8"
	22	5' 10"	7' 5"	7' 6"		22	6' 4"	8' 0"	8' 1"
	20	6' 3"	8' 7"	8' 8"		20	6' 10"	9' 3"	9' 5"
3.50" (t=3.00) 37 psf	26	3' 2"	3' 9"	3' 9"	3.50" (t=2.50) 29 psf	26	3' 4"	3' 11"	4' 0"
	24	4' 10"	6' 3"	6' 3"		24	5' 4"	6' 10"	6' 11"
	22	5' 6"	7' 0"	7' 1"		22	5' 11"	7' 7"	7' 8"
	20	5' 11"	8' 1"	8' 3"		20	6' 5"	8' 9"	8' 11"
4.00" (t=3.00) 43 psf	26	3' 0"	3' 7"	3' 8"	4.00" (t=3.00) 32 psf	26	3' 3"	3' 10"	3' 11"
	24	4' 9"	5' 7"	5' 8"		24	5' 2"	6' 1"	6' 2"
	22	5' 3"	6' 8"	6' 9"		22	5' 9"	7' 4"	7' 5"
	20	5' 7"	7' 9"	7' 10"		20	6' 2"	8' 6"	8' 7"
4.50" (t=3.00) 48 psf	26	3' 0"	3' 6"	3' 7"	4.50" (t=3.50) 37 psf	26	3' 2"	3' 9"	3' 9"
	24	4' 7"	5' 5"	5' 5"		24	4' 11"	5' 10"	5' 11"
	22	5' 0"	6' 6"	6' 7"		22	5' 6"	7' 0"	7' 1"
	20	5' 5"	7' 5"	7' 6"		20	5' 11"	8' 1"	8' 3"
5.00" (t=4.00) 61 psf	26	2' 11"	3' 5"	3' 5"	5.00" (t=4.00) 41 psf	26	3' 1"	3' 8"	3' 8"
	24	4' 5"	5' 2"	5' 3"		24	4' 10"	5' 8"	5' 9"
	22	4' 10"	6' 3"	6' 3"		22	5' 4"	6' 10"	6' 11"
	20	5' 2"	7' 2"	7' 3"		20	5' 8"	7' 10"	7' 11"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

1.5" BI MMD FORM DECK

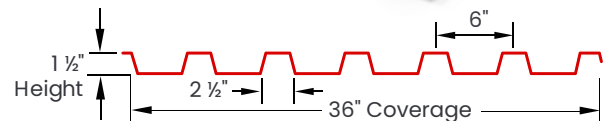
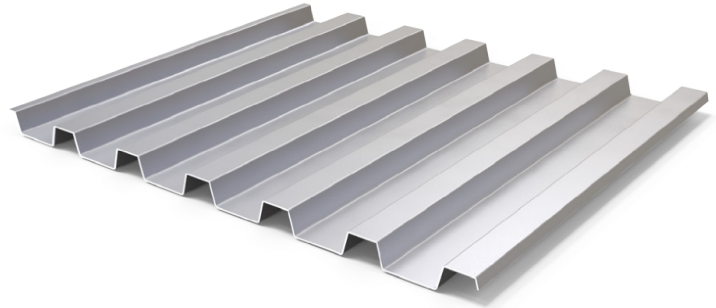
Inverted Formwork for Sleek Concrete Slabs

The 1.5" BI Form Deck features an inverted profile that not only enhances structural performance but also delivers a sleek and clean finish for exposed concrete slabs.

This design is ideal for projects where aesthetic appeal is as important as functionality, offering a modern and refined look to concrete surfaces.

Its inverted formwork ensures a smooth, visually appealing underside of the slab, making it perfect for architectural applications where the deck remains visible.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel. $F_y = 50$ ksi.



Section Properties and Flexural Resistance (Bare Deck)

Gage	Design Thickness (inches)	Weight (psf)	F_y (ksi)	S_{e+} (in ³) per foot	S_{e-} (in ³) per foot	ASD ($\Omega = 1.67$)		I_{d+} (in ⁴) per foot	I_{d-} (in ⁴) per foot
						M_p/Ω inch-lbs per foot	M_n/Ω inch-lbs per foot		
22	0.0295	1.7	50	0.172	0.165	5158	4939	0.149	0.176
20	0.0358	2.1	50	0.222	0.221	6656	6611	0.189	0.218
18	0.0474	2.7	50	0.312	0.299	9331	8962	0.267	0.298
16	0.0598	3.4	50	0.394	0.386	11806	11547	0.356	0.378

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.

Shear and Web Crippling (Bare Deck)

Gage	Design Thickness (inches)	F_y (ksi)	V_n/Ω lbs per foot	Web Crippling (R_n/Ω), lbs/ft One Flange Loading End Bearing			Web Crippling (R_n/Ω), lbs/ft One Flange Loading Interior Bearing		
				1.5"	2"	3"	1.5"	2"	3"
				22	0.0295	50	2804	840	923
20	0.0358	50	3392	1194	1309	1500	1938	2095	2358
18	0.0474	50	4465	1988	2168	2470	3247	3493	3905
16	0.0598	50	5599	3032	3293	3730	4984	5339	5934

Note: All section properties and ASD flexural strengths are calculated in accordance with ANSI/SDI C-2017, ANSI/SDI NC-2017, and AISI S100-2012 and AISI S100-2016.



Member

MIAMI METAL DECK

16000 NW 49TH AVENUE, SUITE A, MIAMI GARDENS, FL 33014
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WWW.MMDECK.COM

ASD Uniform Superimposed Downward Loads (psf)

Span Cond.	Gage	Fy (ksi)	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"	7'-06"	8'-00"	8'-06"	9'-00"	9'-06"	10'-00"
Single	22	50	138	114	96	81	70	61	54	48	42	38	34
	20	50	177	147	123	105	91	79	69	61	55	49	44
	18	50	249	206	173	147	127	111	97	86	77	69	62
	16	50	315	260	219	186	161	140	123	109	97	87	79
Double	22	50	132	109	91	78	67	59	51	46	41	36	33
	20	50	176	146	122	104	90	78	69	61	54	49	44
	18	50	239	198	166	141	122	106	93	83	74	66	60
	16	50	308	254	214	182	157	137	120	107	95	85	77
Triple	22	50	165	136	114	100	84	73	64	57	51	46	41
	20	50	220	182	153	130	112	98	86	76	68	61	55
	18	50	299	247	207	177	152	133	117	103	92	83	75
	16	50	385	318	267	228	196	171	150	133	119	107	96

Notes:

- All I I section properties and ASD ($\Omega = 1.67$) uniform loads are calculated in accordance with ANSI/SDI RD-2017, ANSI/SDI SD-2-22, AISI S100-2012 and AISI S100-2016.
- Loads shown in tables are uniformly distributed superimposed loads in psf. Span length assumes center-to-center spacing of supports.
Tabulated loads shall not be increased by assuming clear span dimensions.
- Bending Moment formulae used for flexural stress limitations are:
 - Simple and Two Span $M = (w\ell^2)/8$.
 - Three Span or More $M = (w\ell^2)/10$.
- Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Uniform Superimposed Service Load that Causes L/240 Deflection (psf)

Span Cond.	Gage	Fy (ksi)	5'-00"	5'-06"	6'-00"	6'-06"	7'-00"	7'-06"	8'-00"	8'-06"	9'-00"	9'-06"	10'-00"
Single	22	50	78	59	45	36	29	23	19	16	13	11	10
	20	50	99	75	57	45	36	29	24	20	17	14	12
	18	50	140	105	81	64	51	42	34	29	24	20	18
	16	50	187	140	108	85	68	55	46	38	32	27	23
Double	22	50	188	141	109	86	69	56	46	38	32	27	24
	20	50	239	179	138	109	87	71	58	49	41	35	30
	18	50	337	253	195	153	123	100	82	69	58	49	42
	16	50	450	338	260	205	164	133	110	92	77	66	56
Triple	22	50	147	111	85	67	54	44	36	30	25	21	18
	20	50	187	140	108	85	68	55	46	38	32	27	23
	18	50	264	198	153	120	96	78	64	54	45	38	33
	16	50	352	264	204	160	128	104	86	72	60	51	44

Note: 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.

Construction Span Table - 20 psf Construction Load

Normal Weight Concrete (145 pcf)					Lightweight Concrete (115 pcf)				
Total Slab Depth	Gage	Maximum Unshored Clear Span			Total Slab Depth	Gage	Maximum Unshored Clear Span		
		1 span	2 span	3 span			1 span	2 span	3 span
3.50" (t=2.00) 36 psf	22	6' 5"	7' 7"	7' 8"	3.50" (t=2.00) 27 psf	22	7' 0"	8' 3"	8' 5"
	20	7' 8"	8' 10"	9' 1"		20	8' 5"	9' 8"	10' 0"
	18	8' 8"	10' 4"	10' 8"		18	9' 6"	11' 3"	11' 8"
	16	9' 6"	11' 9"	12' 1"		16	10' 6"	12' 10"	13' 3"
4.00" (t=2.50) 42 psf	22	6' 2"	7' 3"	7' 4"	4.00" (t=2.50) 32 psf	22	6' 8"	7' 10"	7' 12"
	20	7' 4"	8' 5"	8' 8"		20	8' 0"	9' 2"	9' 6"
	18	8' 3"	9' 10"	10' 2"		18	9' 0"	11' 9"	11' 1"
	16	9' 1"	11' 2"	11' 8"		16	9' 11"	12' 2"	12' 7"
4.50" (t=3.00) 48 psf	22	5' 11"	6' 11"	7' 0"	4.50" (t=3.00) 37 psf	22	6' 5"	7' 6"	7' 7"
	20	7' 1"	8' 4"	8' 7"		20	7' 9"	9' 3"	9' 7"
	18	7' 10"	9' 4"	9' 8"		18	8' 7"	10' 3"	10' 7"
	16	8' 8"	10' 8"	11' 0"		16	9' 5"	11' 7"	12' 0"
5.00" (t=3.50) 54 psf	22	5' 8"	6' 8"	6' 9"	5.00" (t=3.50) 41 psf	22	6' 2"	7' 3"	7' 4"
	20	6' 8"	7' 9"	7' 11"		20	7' 4"	8' 6"	8' 9"
	18	7' 7"	9' 0"	9' 3"		18	8' 3"	9' 11"	10' 3"
	16	8' 4"	10' 2"	10' 7"		16	9' 1"	11' 3"	11' 7"
5.50" (t=4.00) 60 psf	22	5' 6"	6' 5"	6' 6"	5.50" (t=4.00) 46 psf	22	6' 0"	7' 0"	7' 1"
	20	6' 5"	7' 5"	7' 7"		20	7' 1"	8' 2"	8' 5"
	18	7' 4"	8' 8"	8' 11"		18	7' 12"	9' 6"	9' 10"
	16	8' 0"	9' 10"	10' 2"		16	8' 9"	10' 10"	11' 2"
6.00" (t=4.50) 66 psf	22	5' 4"	6' 2"	6' 3"	6.00" (t=4.50) 50 psf	22	5' 10"	6' 10"	6' 11"
	20	6' 3"	7' 2"	7' 4"		20	6' 11"	7' 11"	8' 2"
	18	7' 1"	8' 4"	8' 7"		18	7' 9"	9' 3"	9' 7"
	16	7' 9"	9' 6"	9' 9"		16	8' 6"	10' 6"	10' 10"

Note: Web crippling and shear have not been accounted for in these tables. Required bearing should be determined based on specific span conditions.

Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Weight (psf)	F _y : 50 ksi				f'c : 3000 psi				Normal Weight Concrete (145 pcf)						
			5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
3.5"	22	36	400	400	400	400	372	321	279	244	214	190	169	150	135	121	109
	20	36	400	400	400	400	400	387	337	296	295	260	231	206	184	165	149
	18	36	400	400	400	400	400	393	342	300	265	235	209	187	168	152	137
	16	36	400	400	400	400	400	383	333	292	258	228	204	182	164	147	133
4"	22	42	400	400	400	400	400	392	341	298	263	233	207	185	165	149	134
	20	42	400	400	400	400	400	400	400	362	362	319	283	253	226	203	183
	18	42	400	400	400	400	400	400	400	368	325	288	257	230	207	187	169
	16	42	400	400	400	400	400	400	400	359	317	281	251	224	202	182	164
4.5"	22	48	400	400	400	400	400	400	400	355	313	277	246	220	197	178	160
	20	48	400	400	400	400	400	400	400	400	400	380	337	301	270	242	219
	18	48	400	400	400	400	400	400	400	400	387	344	307	275	247	223	202
	16	48	400	400	400	400	400	400	400	400	379	336	300	269	242	218	197
5"	22	54	400	400	400	400	400	400	400	400	364	322	287	256	230	207	187
	20	54	400	400	400	400	400	400	400	400	400	400	393	350	314	283	255
	18	54	400	400	400	400	400	400	400	400	400	400	358	321	289	261	236
	16	54	400	400	400	400	400	400	400	400	400	393	351	314	283	255	231
5.5"	22	60	400	400	400	400	400	400	400	400	400	368	328	293	263	237	214
	20	60	400	400	400	400	400	400	400	400	400	400	400	400	359	323	292
	18	60	400	400	400	400	400	400	400	400	400	400	400	368	331	299	271
	16	60	400	400	400	400	400	400	400	400	400	400	400	361	325	293	266
6"	22	66	400	400	400	400	400	400	400	400	400	400	369	330	297	267	241
	20	66	400	400	400	400	400	400	400	400	400	400	400	400	400	365	329
	18	66	400	400	400	400	400	400	400	400	400	400	400	400	374	338	306
	16	66	400	400	400	400	400	400	400	400	400	400	400	400	367	332	301

Composite Deck-Slab Allowable Superimposed Load (ASD)

Slab Thickness	Gage	Fy: 50 ksi		f'c : 3000 psi						Lightweight Concrete (115 pcf)							
		Weight (psf)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
3.5"	22	27	400	400	400	400	364	314	274	240	212	188	168	150	135	122	110
	20	27	400	400	400	400	400	377	329	289	255	227	203	182	164	149	135
	18	27	400	400	400	400	400	374	326	287	253	225	201	181	163	147	134
	16	27	400	400	400	400	400	347	302	265	235	208	186	167	150	136	123
4"	22	32	400	400	400	400	400	385	335	294	260	231	206	185	166	150	136
	20	32	400	400	400	400	400	400	400	354	313	279	249	224	202	183	166
	18	32	400	400	400	400	400	400	400	359	317	282	252	227	204	185	168
	16	32	400	400	400	400	400	400	397	349	308	274	245	220	198	180	163
4.5"	22	37	400	400	400	400	400	400	400	400	373	332	297	267	241	218	198
	20	37	400	400	400	400	400	400	400	367	324	289	258	232	209	189	172
	18	37	400	400	400	400	400	400	400	379	337	302	271	244	221	201	
	16	37	400	400	400	400	400	400	400	369	328	294	264	238	215	195	
5"	22	41	400	400	400	400	400	400	400	400	361	321	287	257	232	209	190
	20	41	400	400	400	400	400	400	400	400	388	347	312	282	255	232	
	18	41	400	400	400	400	400	400	400	400	395	353	317	286	259	236	
	16	41	400	400	400	400	400	400	400	400	385	345	310	279	253	230	
5.5"	22	46	400	400	400	400	400	400	400	400	400	367	328	294	265	239	217
	20	46	400	400	400	400	400	400	400	400	400	398	357	323	292	266	
	18	46	400	400	400	400	400	400	400	400	400	400	364	329	298	271	
	16	46	400	400	400	400	400	400	400	400	400	396	356	321	291	264	
6"	22	50	400	400	400	400	400	400	400	400	400	400	370	332	300	271	246
	20	50	400	400	400	400	400	400	400	400	400	400	400	400	365	331	301
	18	50	400	400	400	400	400	400	400	400	400	400	400	400	372	337	307
	16	50	400	400	400	400	400	400	400	400	400	400	400	400	365	330	300

C PURLIN

High-Strength Structural Support for Roofs and Walls

C Purlins provide high-strength support for both roofs and walls in commercial and industrial buildings. Manufactured from 55 ksi galvanized steel, these purlins offer durability and corrosion resistance in harsh environments.

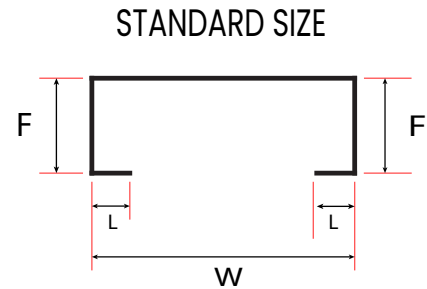
Available in a range of thicknesses and gauges, C Purlins are designed for long-span applications, reducing the need for additional structural supports and lowering construction costs.

Their lightweight design allows for quick installation while maintaining excellent load-bearing capacity.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel.
 Fy = 55 ksi.



Purlin Size	Thickness (in)	lb/ft	GAUGE	WEB	FLANGE	Lip
				W (± 0.078 in)	F (± 0.078 in)	(± 0.078 in)
C4x2-20	0.039	1.20	20	4.00	2.00	0.472
C4x2-18	0.047	1.41	18	4.00	2.00	0.472
C4x2-16	0.059	1.76	16	4.00	2.00	0.512
C4x2-14	0.075	2.21	14	4.00	2.00	0.551
C4x2-12	0.094	2.82	12	4.00	2.00	0.551
C5x2-20	0.039	1.35	20	5.00	2.00	0.591
C5x2-18	0.047	1.59	18	5.00	2.00	0.591
C5x2-16	0.059	1.99	16	5.00	2.00	0.591
C5x2-14	0.075	2.50	14	5.00	2.00	0.630
C5x2-12	0.094	3.19	12	5.00	2.00	0.630
C6x2.5-18	0.047	1.94	18	6.00	2.50	0.591
C6x2.5-16	0.059	2.41	16	6.00	2.50	0.630
C6x2.5-14	0.075	3.03	14	6.00	2.50	0.669
C6x2.5-12	0.094	3.83	12	6.00	2.50	0.709
C8x3-16	0.059	3.02	16	8.00	3.00	0.591
C8x3-14	0.075	3.86	14	8.00	3.00	0.709
C8x3-12	0.094	4.87	12	8.00	3.00	0.787
C10x3-14	0.075	4.37	14	10.00	3.00	0.709
C10x3-12	0.094	5.48	12	10.00	3.00	0.787
C12x3-14	0.075	5.40	14	12.00	3.00	0.787
C12x3-12	0.094	6.78	12	12.00	3.00	0.787



Z PURLIN

High-Strength Structural Support for Roofs and Walls

Z Purlins provide high-strength structural support for both roofs and walls in commercial and industrial projects. Manufactured from 55 ksi galvanized steel, they offer excellent durability and corrosion resistance in demanding environments.

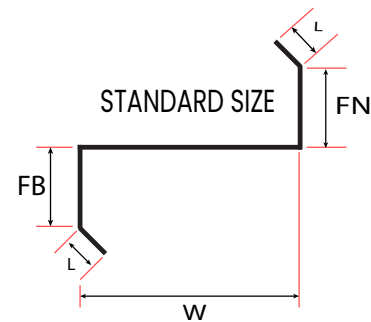
With a range of thicknesses and sizes, Z Purlins are designed for long-span applications, reducing the need for intermediate supports and lowering construction costs.

Their lightweight design ensures quick installation while maintaining high load-bearing capacity.

Material: Galvanized G90 or G60 ASTM A653 Structural Steel.
Fy = 55 ksi.



Purlin Size	Thickness (in)	lb/ft	GAUGE	WEB	FLANGE	Lip
				W (± 0.078 in)	F (± 0.078 in)	(± 0.078 in)
Z6x2.5-18	0.047	1.94	18	6.00	2.50	0.58
Z6x2.5-16	0.059	2.41	16	6.00	2.50	0.62
Z6x2.5-14	0.075	3.03	14	6.00	2.50	0.66
Z6x2.5-12	0.094	3.83	12	6.00	2.50	0.70
Z8x3-16	0.059	3.02	16	8.00	3.00	0.58
Z8x3-14	0.075	3.86	14	8.00	3.00	0.70
Z8x3-12	0.094	4.87	12	8.00	3.00	0.78
Z10x3-14	0.075	4.37	14	10.00	3.00	0.70
Z10x3-12	0.094	5.48	12	10.00	3.00	0.78
Z12x3-14	0.075	5.40	14	12.00	3.00	0.78
Z12x3-12	0.094	6.78	12	12.00	3.00	0.78

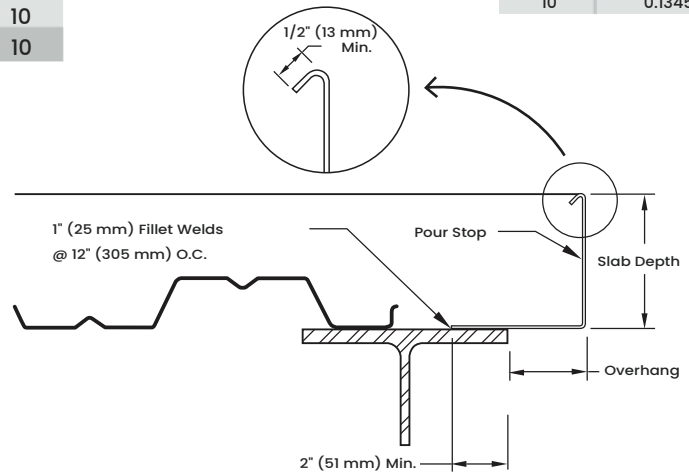


POUR STOP SELECTION TABLE

FOR COMPOSITE STEEL FLOOR DECK

Slab Depth (inches)	OVERHANG (INCHES)												
	0	1	2	3	4	5	6	7	8	9	10	11	12
4.00	20	20	20	20	18	18	16	14	12	12	12	10	10
4.25	20	20	20	18	18	16	16	14	12	12	12	10	10
4.50	20	20	20	18	18	16	16	14	12	12	12	10	10
4.75	20	20	18	18	16	16	14	14	12	12	10	10	10
5.00	20	20	18	18	16	16	14	14	12	12	10	10	
5.25	20	18	18	16	16	14	14	12	12	12	10	10	
5.50	20	18	18	16	16	14	14	12	12	12	10	10	
5.75	20	18	16	16	14	14	12	12	12	12	10	10	
6.00	18	18	16	16	14	14	12	12	12	12	10	10	
6.25	18	18	16	14	14	12	12	12	12	12	10	10	
6.50	18	16	16	14	14	12	12	12	12	12	10	10	
6.75	18	16	14	14	14	12	12	12	12	10	10	10	
7.00	18	16	14	14	12	12	12	12	12	10	10	10	
7.25	16	16	14	14	12	12	12	12	12	10	10		
7.50	16	14	14	12	12	12	12	12	10	10	10		
7.75	16	14	14	12	12	12	12	12	10	10	10		
8.00	14	14	12	12	12	12	12	10	10	10			
8.25	14	14	12	12	12	12	12	10	10	10			
8.50	14	12	12	12	12	12	10	10	10				
8.75	14	12	12	12	12	12	10	10	10				
9.00	14	12	12	12	12	12	10	10					
9.25	12	12	12	12	12	10	10	10					
9.50	12	12	12	12	12	10	10						
9.75	12	12	12	12	10	10	10						
10.00	12	12	12	10	10	10							
10.25	12	12	10	10	10								
10.50	12	12	10	10									
10.75	12	10	10										
11.00	12	10	10	10									
11.25	12	10	10										
11.50	10	10	10										
11.75	10	10											
12.00	10	10											

TYPES	DESIGN THICKNESS
20	0.358
18	0.474
16	0.598
14	0.747
12	0.1046
10	0.1345



NOTES:

The above Selection Table is based on the following criteria:

1. All Normal weight concrete (150 pcf).
2. Horizontal and vertical deflection is limited to 1/4" maximum for concrete dead load.
3. Design stress is limited to 20 ksi for concrete dead load temporarily increased by one-third for the construction live load of 20 psf.
4. Pour Stop Selection Table does not consider the effect of the performance, deflection, or rotation of the pour stop support which may include both the supporting composite deck and/or the frame.
5. Vertical leg return lip is recommended for all gages.
6. This selection is not meant to replace the judgement of experienced Structural Engineers and shall be considered as a reference only.

SPECIALTY DECK PRODUCTS

CELLULAR DECK

The Cellular Deck provides an ideal solution for projects that require both structural strength and a clean, exposed ceiling appearance. With a smooth, flat bottom plate, this deck offers a seamless aesthetic without compromising load-bearing capabilities.

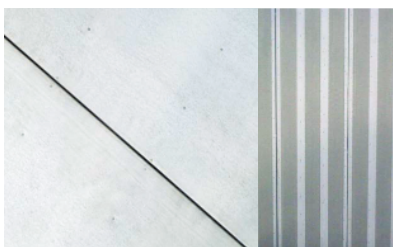
This type of deck is especially suited for projects where an uninterrupted, visually appealing ceiling is important, such as gyms, auditoriums, museums, and shopping centers. In addition, acoustic versions are available, significantly reducing noise levels, making them perfect for conference rooms, libraries, and convention centers.

Key Benefits:

- **Aesthetic Finish:** Flat bottom surface ideal for exposed ceiling areas.
- **Noise Reduction:** Acoustic options provide excellent sound absorption.
- **Versatile Applications:** Perfect for commercial and public spaces.

Common Uses:

- Auditoriums, theaters, and convention centers.
- Classrooms, libraries, and cafeterias.
- Office buildings and high-traffic areas.



Ceiling-side of MIAMI METAL DECK cellular decking.

DEEP ROOF DECK

The Deep Roof Deck is engineered for applications where long spans and high structural loads are essential. Available in multiple gauges and styles, this deck provides exceptional support in projects that require extended spans without the need for frequent support members.

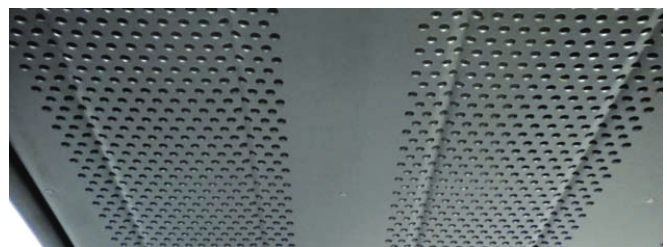
This deck is ideal for canopies, walkways, and other large-scale projects where long-span capacity is crucial. Cellular and acoustic options are available, combining structural strength with effective noise control, making it a flexible solution for a wide range of architectural and commercial applications.

Key Benefits:

- **Long-Span Capacity:** Ideal for projects requiring extended spans.
- **Cellular and Acoustic Options:** Combines structural strength with noise control.
- **Versatile Applications:** Perfect for walkways, canopies, and large-scale roofing.

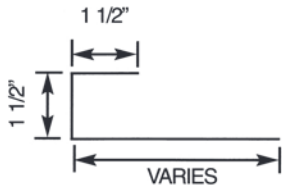
Common Uses:

- Canopies and walkways.
- Large-scale roofing for commercial installations.

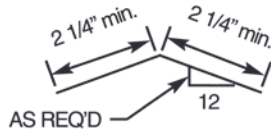


Optional Stiffening Ribs

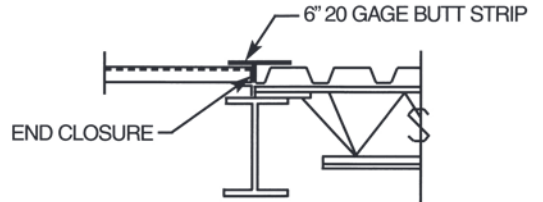
ACCESSORIES



CELL CLOSURE (20 GAGE MIN.)



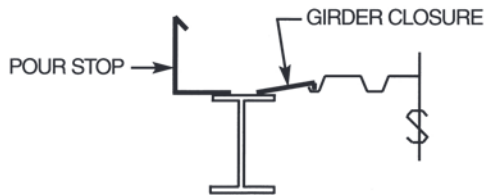
RIDGE AND VALLEY PLATE (20 GAGE MIN.)



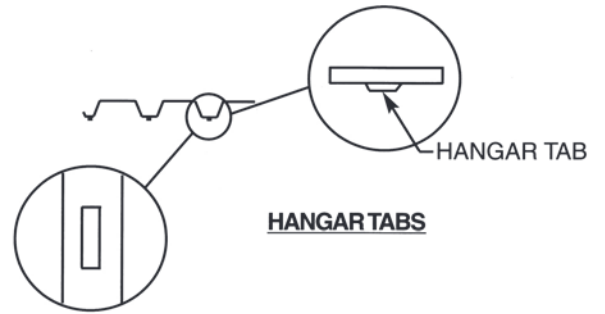
DETAIL WHERE DECK CHANGES DIRECTION



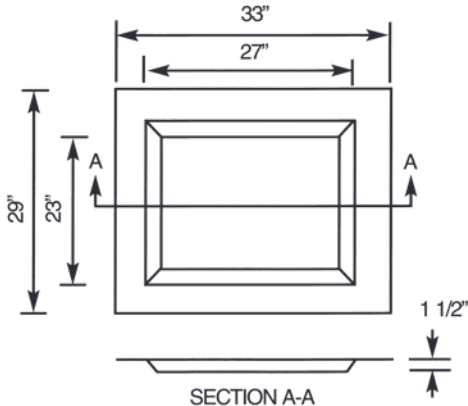
**WELDING WASHERS
5/16" HOLE, 14 GAGE**



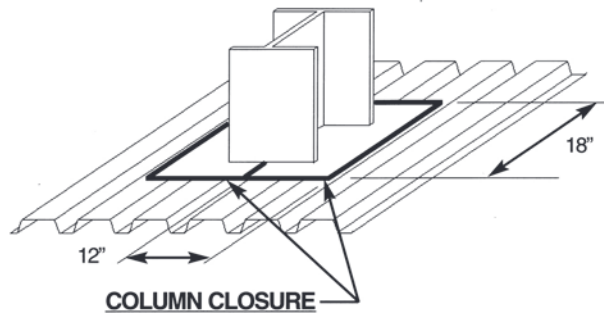
TYPICAL POUR STOP AND GIRDER CLOSURE APPLICATION



HANGAR TABS



**RECESSED SUMP PAN LEVEL (14 GAGE MIN.)
(HOLE CUT IN FIELD BY OTHERS)**

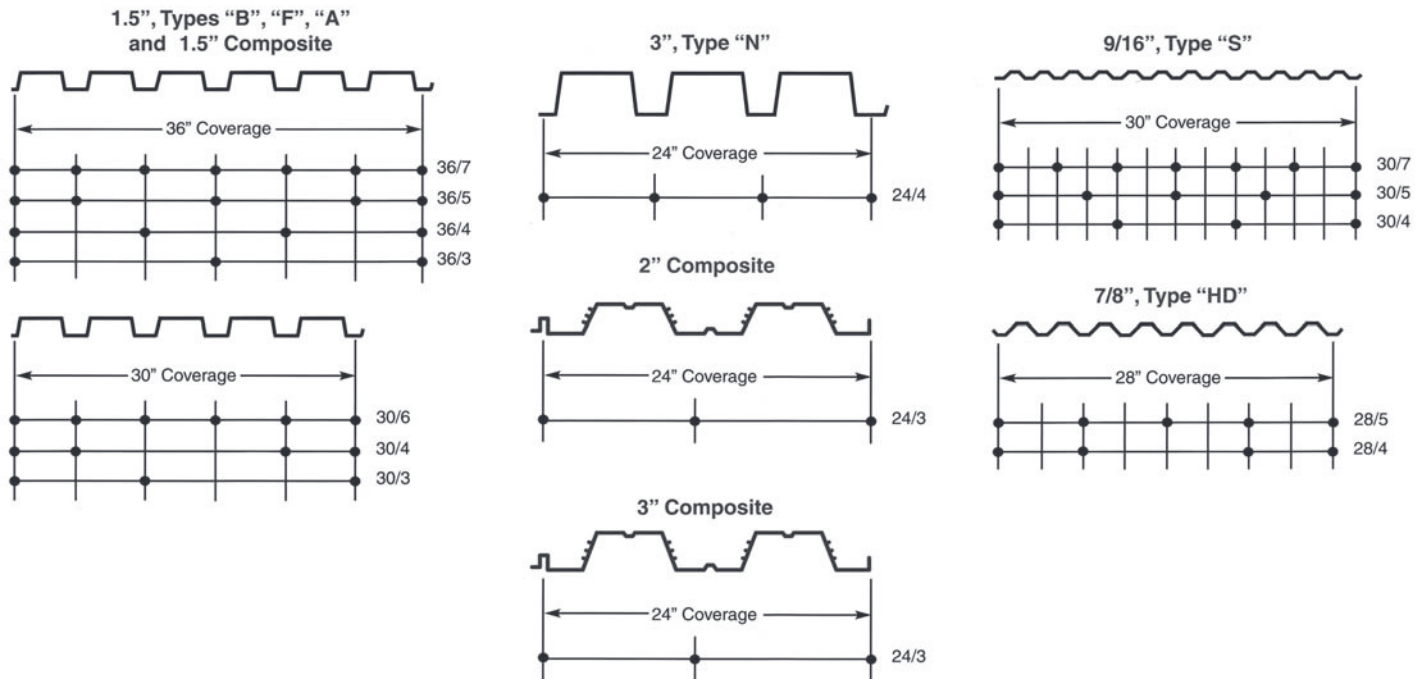


COLUMN CLOSURE

ACCESSORIES NOTES:

1. Recessed level sump pan is standard. Sloped sump pan will be furnished only when specified.
2. Accessories will be furnished in 10' lengths.
3. Accessories will only be furnished when ordered.
4. Tek screws are also available.
5. Hanger tabs available in all composite decks 20 gage and heavier.

TYPICAL FASTENER LAYOUTS



Sidelap Fastening:

In general, if spans are less than 5'-0" sidelap fastening is not required. If spans are greater than 5'-0", deck is to be fastened at midspan or every 36", whichever is smaller.

POLICY

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