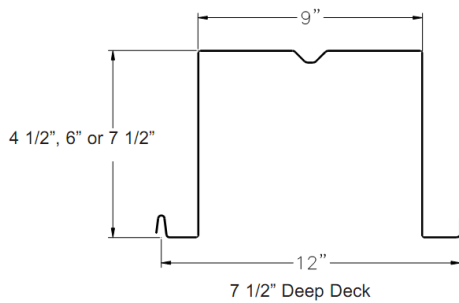
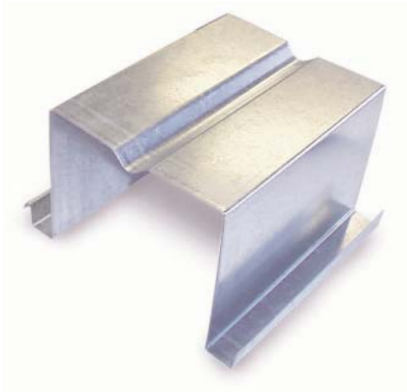


Roof Deck



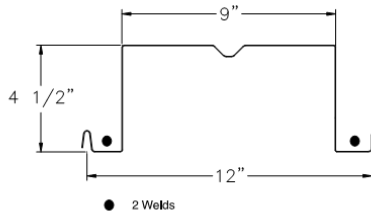
Deep Deck

Deep Deck is a 12" wide (net coverage) deck available in three depths; 4 1/2", 6" or 7 1/2". Deep Deck can be used as roof deck as form deck. It is not available as composite deck. Deep Deck is available with a cellular option, including acoustical which provides pan perforations only.

Features and Benefits:

- ASC is the only manufacturer on the west coast for Deep Deck type products.
- ASC is the only manufacturer in the country with an ICBO. Evaluation Report covering Deep Deck with diaphragm shears.
- Deeper sections allow for longer spans up to 30'+.
- Interlocking seam allows for button punching and/or welded seams.
- Optional cellular flat pan provides clean look for exposed ceilings.

Deep Deck 4 1/2" and 6"



Deep Deck 4 1/2"

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

Allowable Reactions

Gauge	Bearing Length (in) 3"
20	390
	853
18	815
	1477
16	1362
	2316
14	2282
	3721

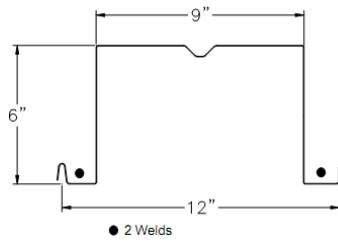
4 1/2" Deep Deck Section Properties

Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20	2.86	2.44	0.924	0.957
18	3.74	3.42	1.266	1.313
16	4.69	4.36	1.608	1.635
14	5.86	5.49	2.056	2.056

1. Section properties are based on minimum 33 ksi steel (Fy).

4 1/2" Deep Deck Allowable Total (DL + LL) Uniform Load (psf) 1, 2 (footnote page 26)

Span Condition	Gauge		Span										
			10'0"	12'0"	14'0"	16'0"	18'0"	20'0"	22'0"	24'0"	26'0"	28'0"	30'0"
SINGLE SPAN	20	Stress	123	86	63	48	38	31	25	21	18	16	14
		Deflection	123	86	58	39	27	20	15	12	9	7	6
	18	Stress	169	117	86	66	52	42	35	29	25	22	19
		Deflection	169	117	82	55	38	28	21	16	13	10	8
	16	Stress	214	149	109	84	66	54	44	37	32	27	24
		Deflection	214	149	104	70	49	36	27	21	16	13	11
	14	Stress	274	190	140	107	85	69	57	48	41	35	30
		Deflection	274	190	131	88	62	45	34	26	20	16	13



Deep Deck 6"

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

Allowable Reactions

Gauge	Bearing Length (in) 3"
20	351
	793
18	757
	1403
16	1289
	2226
14	2188
	3610

6" Deep Deck Section Properties

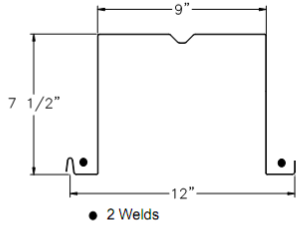
Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20	3.22	4.79	1.386	1.314
18	4.22	6.68	1.892	1.966
16	5.29	8.56	2.406	2.451
14	6.61	10.78	3.085	3.087

1. Section properties are based on minimum 33 ksi steel (Fy).

6" Deep Deck Allowable Total (DL + LL) Uniform Load (psf) 1, 2 (footnote page 26)

Span Condition	Gauge		Span										
			10'0"	12'0"	14'0"	16'0"	18'0"	20'0"	22'0"	24'0"	26'0"	28'0"	30'0"
SINGLE SPAN	20	Stress	185	128	94	72	57	46	38	32	27	24	21
		Deflection	185	128	94	72	54	39	29	23	18	14	12
	18	Stress	252	175	129	99	78	63	52	44	37	32	28
		Deflection	252	175	129	99	75	55	41	32	25	20	16
	16	Stress	321	223	164	125	99	80	66	56	47	41	36
		Deflection	321	223	164	125	96	70	53	41	32	26	21
	14	Stress	411	286	210	161	127	103	85	71	61	52	46
		Deflection	411	286	210	161	121	88	66	51	40	32	26

7 1/2" Deep Deck



Deep Deck 7 1/2"

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

Allowable Reactions

Gauge	Bearing Length (in) 3"
20	311
	733
18	700
	1330
16	1216
	2137
14	2095
	3499

7 1/2" Deep Deck Section Properties

Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20	3.59	8.11	1.899	1.670
18	4.70	11.28	2.593	2.528
16	5.90	14.47	3.300	3.367
14	7.38	18.26	4.238	4.245

1. Section properties are based on minimum 33 ksi steel (Fy).

7 1/2" Deep Deck Allowable Total (DL + LL) Uniform Load (psf)^{1,2}

Span Condition	Gauge		Span										
			10'0"	12'0"	14'0"	16'0"	18'0"	20'0"	22'0"	24'0"	26'0"	28'0"	30'0"
SINGLE SPAN	20	Stress	253	176	129	99	78	63	52	44	37	32	28
		Deflection	253	176	129	99	78	63	50	38	30	24	20
	18	Stress	346	240	176	135	107	86	71	60	51	44	38
		Deflection	346	240	176	135	107	86	69	53	42	34	27
	16	Stress	440	306	224	172	136	110	91	76	65	56	49
		Deflection	440	306	224	172	136	110	89	69	54	43	35
	14	Stress	565	392	288	221	174	141	117	98	84	72	63
		Deflection	565	392	288	221	174	141	112	87	68	55	44

1. Loads based on bending stress limit of $F_b=20\text{ksi}$ or deflection limit of $L/240$.
2. Bearing must be checked using actual loads and bearing lengths.