



Type 2" Composite Cellular  
Acoustical Type Shown

Helpful Hint: Type 2" composite cellular deck is utilized in exposed ceiling areas where a flat bottom deck is desired for aesthetic purposes under a slab and the spans exceed the capability of type 1-1/2" composite cellular deck.

### Section Properties (Fy=40 ksi)

Gage Top/Bot	Weight (psf) Glv	Ip(In <sup>4</sup> )	In(In <sup>4</sup> )	Sp(In <sup>3</sup> )	Sn(In <sup>3</sup> )
20/20	3.55	0.609	0.631	0.402	0.404
20/18	4.05	0.663	0.687	0.465	0.454
18/20	4.05	0.774	0.683	0.553	0.517
18/18	4.62	0.845	0.845	0.57	0.558
18/16	5.18	0.909	0.909	0.588	0.602
16/18	5.14	1.002	1.002	0.729	0.678
16/16	6.4	1.08	1.08	0.749	0.743

- Section properties calculated in accordance with AISI specifications

### Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	.80
.39	.54	.87	.98	.79	.71	

### Maximum Allowable Unshored Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
4.5"	20/20	46	7'-8"	9'-11"	10'-3"
	20/18	46	8'-5"	10'-6"	10'-10"
	18/20	46	9'-4"	11'-2"	11'-7"
	18/18	47	9'-5"	11'-7"	11'-11"
	18/16	47	9'-7"	12'-0"	12'-5"
	16/18	47	10'-11"	12'-9"	13'-2"
	16/16	48	11'-0"	13'-3"	13'-8"
5.0"	20/20	52	7'-4"	9'-6"	9'-9"
	20/18	52	8'-0"	10'-0"	10'-5"
	18/20	52	8'-11"	10'-8"	11'-1"
	18/18	53	9'-0"	11'-0"	11'-5"
	18/16	53	9'-2"	11'-6"	11'-10"
	16/18	53	10'-4"	12'-2"	12'-7"
	16/16	54	10'-5"	12'-8"	13'-1"
5.5"	20/20	58	7'-0"	9'-1"	9'-5"
	20/18	58	7'-8"	9'-8"	10'-0"
	18/20	58	8'-6"	10'-4"	10'-8"
	18/18	59	8'-7"	10'-7"	11'-0"
	18/16	59	8'-9"	11'-0"	11'-5"
	16/18	60	9'-10"	11'-8"	12'-0"
	16/16	60	10'-0"	12'-2"	12'-7"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
6.0"	20/20	64	6'-9"	8'-9"	9'-0"
	20/18	64	7'-4"	9'-4"	9'-7"
	18/20	64	8'-2"	9'-11"	10'-3"
	18/18	65	8'-3"	10'-3"	10'-7"
	18/16	65	8'-5"	10'-8"	11'-0"
	16/18	66	9'-5"	11'-3"	11'-7"
	16/16	66	9'-7"	11'-9"	12'-2"
6.5"	20/20	70	6'-6"	8'-6"	8'-9"
	20/18	70	7'-1"	9'-0"	9'-3"
	18/20	70	7'-10"	9'-7"	9'-11"
	18/18	71	7'-11"	9'-11"	10'-3"
	18/16	71	8'-1"	10'-4"	10'-7"
	16/18	72	9'-1"	10'-10"	11'-3"
	16/16	72	9'-3"	11'-4"	11'-9"

For superimposed live load tables, see  
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