



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 ⁴)	In(In ⁴)	Sp(In ³)	Sn(In ³)
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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