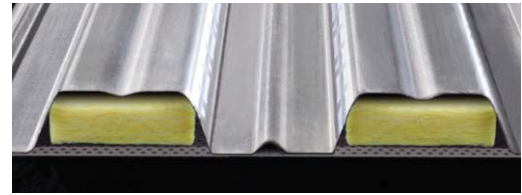
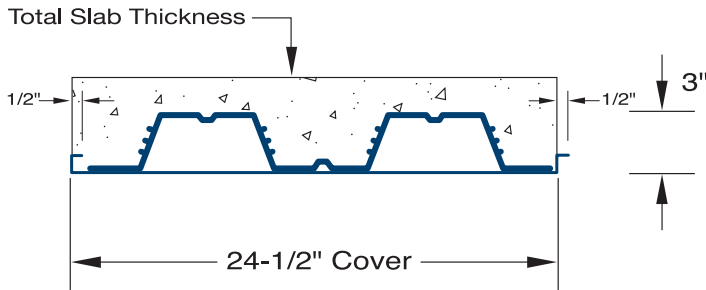


3" COMPOSITE CELLULAR



Type 3" Composite Cellular
Acoustical Type Shown

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	3.65	1.417	1.296	0.639	0.604
20/18	4.15	1.532	1.532	0.723	0.654
18/20	4.15	1.734	1.466	0.865	0.78
18/18	4.72	1.891	1.891	0.886	0.826
18/16	5.28	2.02	2.02	0.905	0.903
16/18	5.24	2.246	2.246	1.097	1.01
16/16	6.55	2.405	2.405	1.121	1.087

Helpful Hint: Type 3" 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 2" composite cellular deck.

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	.85
.45	.62	1.1	.98	.78	.65	

- Section properties calculated in accordance with AISI specifications

Maximum Allowable Unshored Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
5.5"	20/20	58	9'-3"	11'-1"	11'-6"
	20/18	58	9'-11"	11'-7"	11'-11"
	18/20	58	11'-0"	12'-8"	13'-1"
	18/18	59	11'-1"	12'-11"	13'-4"
	18/16	59	11'-2"	13'-6"	14'-0"
	16/18	60	12'-5"	14'-3"	14'-8"
	16/16	60	12'-6"	14'-9"	15'-3"
6.0"	20/20	64	8'-10"	10'-9"	11'-1"
	20/18	64	9'-6"	11'-2"	11'-6"
	18/20	64	10'-6"	12'-2"	12'-7"
	18/18	65	10'-7"	12'-6"	12'-10"
	18/16	65	10'-9"	13'-0"	13'-6"
	16/18	66	11'-11"	13'-9"	14'-2"
	16/16	66	12'-0"	14'-3"	14'-8"
6.5"	20/20	70	8'-6"	10'-4"	10'-9"
	20/18	70	9'-1"	10'-9"	11'-2"
	18/20	70	10'-1"	11'-9"	12'-2"
	18/18	71	10'-2"	12'-1"	12'-6"
	18/16	71	10'-4"	12'-7"	13'-0"
	16/18	71	11'-6"	13'-4"	13'-9"
	16/16	72	11'-7"	13'-9"	14'-3"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
7.0"	20/20	76	8'-2"	10'-0"	10'-4"
	20/18	76	8'-10"	10'-5"	10'-10"
	18/20	76	9'-9"	11'-5"	11'-9"
	18/18	77	9'-10"	11'-8"	12'-1"
	18/16	77	10'-0"	12'-2"	12'-7"
	16/18	77	11'-1"	12'-11"	13'-4"
	16/16	78	11'-2"	13'-4"	13'-9"
7.5"	20/20	82	7'-11"	9'-9"	10'-1"
	20/18	82	8'-6"	10'-2"	10'-6"
	18/20	82	9'-5"	11'-1"	11'-5"
	18/18	83	9'-7"	11'-4"	11'-9"
	18/16	83	9'-8"	11'-10"	12'-3"
	16/18	83	10'-9"	12'-6"	12'-11"
	16/16	84	10'-10"	12'-11"	13'-4"

For superimposed live load tables, see
3" Composite Floor Deck - page 20-21