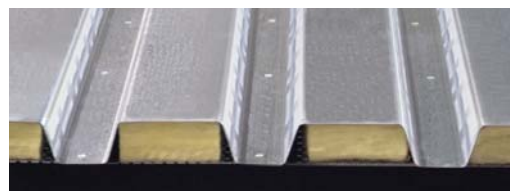
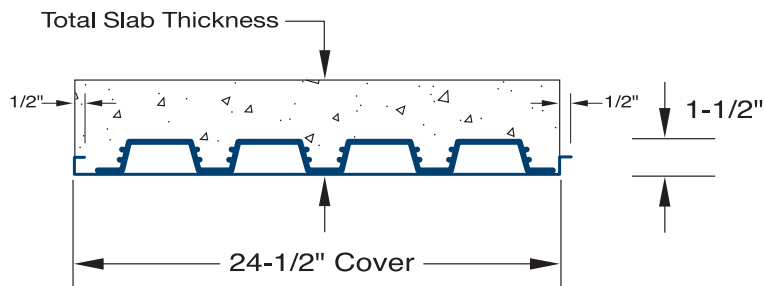


COMPOSITE CELLULAR 1-1/2" COMPOSITE CELLULAR



Type 1-1/2" Composite Cellular
Acoustical Type Shown

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

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	3.53	0.378	0.455	0.358	0.399
20/18	4.02	0.417	0.504	0.369	0.481
18/20	4.48	0.504	0.551	0.47	0.462
18/18	5.11	0.558	0.611	0.491	0.596
18/16	5.58	0.608	0.668	0.512	0.637
16/18	5.58	0.701	0.717	0.664	0.693
16/16	6.3	0.765	0.784	0.689	0.782

- Section properties calculated in accordance with AISI specifications

Acoustical Data

Absorption Coefficients						NRC
125	250	500	1000	2000	4000	.70
.11	.47	.63	.87	.88	.70	

Maximum Allowable Unshored Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
4.0"	20/20	41	7'-6"	10'-1"	10'-4"
	20/18	42	7'-7"	10'-3"	10'-5"
	18/20	42	8'-10"	10'-11"	11'-4"
	18/18	43	8'-11"	12'-2"	12'-4"
	18/16	43	9'-2"	12'-6"	12'-8"
	16/18	43	10'-9"	13'-2"	13'-8"
	16/16	43	10'-11"	14'-0"	14'-7"
	4.5"	20/20	47	7'-1"	9'-8"
20/18		48	7'-2"	9'-9"	9'-11"
18/20		48	8'-4"	10'-5"	10'-9"
18/18		49	8'-6"	11'-7"	11'-8"
18/16		49	8'-8"	11'-10"	12'-0"
16/18		49	10'-1"	12'-8"	13'-1"
16/16		50	10'-3"	13'-4"	13'-10"
5.0"		20/20	53	6'-10"	9'-3"
	20/18	54	6'-11"	9'-4"	9'-5"
	18/20	54	7'-11"	10'-0"	10'-4"
	18/18	55	8'-1"	11'-0"	11'-2"
	18/16	55	8'-4"	11'-4"	11'-6"
	16/18	55	9'-8"	12'-2"	12'-7"
	16/16	56	9'-10"	12'-10"	13'-3"

Slab Depth	Gage PSF	Weight	NW Concrete 145 PCF		
			1 Span	2 Span	3 Span
5.5"	20/20	59	6'-6"	8'-10"	9'-0"
	20/18	60	6'-7"	8'-11"	9'-1"
	18/20	60	7'-7"	9'-7"	9'-11"
	18/18	61	7'-9"	10'-7"	10'-9"
	18/16	61	8'-0"	10'-10"	11'-0"
	16/18	61	9'-3"	11'-8"	12'-0"
	16/16	62	9'-4"	12'-4"	12'-9"
	6.0"	20/20	65	6'-3"	8'-7"
20/18		66	6'-4"	8'-8"	8'-9"
18/20		66	7'-4"	9'-3"	9'-7"
18/18		67	7'-6"	10'-3"	10'-4"
18/16		67	7'-8"	10'-6"	10'-7"
16/18		67	8'-11"	11'-4"	11'-8"
16/16		68	9'-0"	11'-11"	12'-4"

For superimposed live load tables, see
1-1/2" Composite Floor Deck - page 16-17