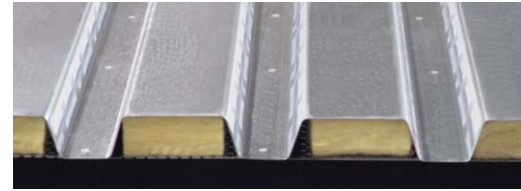
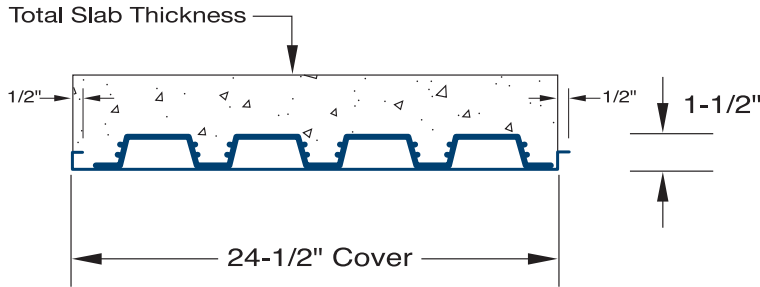


## 1-1/2" COMPOSITE CELLULAR



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 <sup>4</sup> )	In(In <sup>4</sup> )	Sp(In <sup>3</sup> )	Sn(In <sup>3</sup> )
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	
.11	.47	.63	.87	.88	.70	<b>.70</b>

### 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