



BHF-36 Profile



36/4 Attachment Pattern

Panel Properties

Gage	Weight w psf	Base Metal Thickness t in	Yield Strength F _y ksi	Tensile Strength F _u ksi	Gross Section Properties					
					Area A _g in ² /ft	Moment of Inertia I _g in ⁴ /ft	Distance to N.A. from Bottom		Section Modulus S _g in ³ /ft	Radius of Gyration r in
							y _b in	S _g in ³ /ft		
20/20	3.69	0.0359 / 0.036	50	65	1.040	0.460	0.58	0.462	0.665	
20/18	4.16	0.0359 / 0.047	50	65	1.179	0.499	0.52	0.471	0.651	
20/16	4.68	0.0359 / 0.059	50	65	1.330	0.535	0.48	0.479	0.634	
18/20	4.35	0.0478 / 0.036	50	65	1.231	0.564	0.65	0.601	0.677	
18/18	4.83	0.0478 / 0.047	50	65	1.370	0.614	0.59	0.613	0.670	
18/16	5.35	0.0478 / 0.059	50	65	1.521	0.661	0.55	0.624	0.659	
16/20	5.03	0.0598 / 0.036	50	65	1.423	0.661	0.70	0.736	0.682	
16/18	5.51	0.0598 / 0.047	50	65	1.562	0.721	0.65	0.752	0.679	
16/16	6.03	0.0598 / 0.059	50	65	1.713	0.777	0.60	0.767	0.674	

Gage	Effective Section Modulus at F _y					Effective Moment of Inertia for Deflection			
	Compression	Bending				Moment of Inertia	Moment of Inertia	Uniform Load Only	
	Area	Section Modulus	Distance to N.A. from Bottom	Section Modulus	Distance to N.A. from Bottom			I _d = (2I _e +I _g)/3	
A _e in ² /ft	S _e ⁺ in ³ /ft	y _b in	S _e ⁻ in ³ /ft	y _b in	I _e ⁺ in ⁴ /ft	I _e ⁻ in ⁴ /ft	I _d ⁺ in ⁴ /ft	I _d ⁻ in ⁴ /ft	
20/20	0.643	0.272	0.43	0.438	0.73	0.354	0.389	0.389	0.413
20/18	0.744	0.278	0.39	0.452	0.66	0.381	0.445	0.420	0.463
20/16	0.861	0.284	0.35	0.465	0.58	0.404	0.505	0.448	0.515
18/20	0.876	0.409	0.53	0.569	0.77	0.489	0.486	0.514	0.512
18/18	0.977	0.419	0.48	0.587	0.71	0.529	0.547	0.558	0.569
18/16	1.094	0.427	0.44	0.604	0.65	0.566	0.617	0.598	0.631
16/20	1.105	0.564	0.61	0.698	0.81	0.619	0.582	0.633	0.609
16/18	1.206	0.577	0.56	0.719	0.75	0.673	0.646	0.689	0.671
16/16	1.323	0.588	0.52	0.739	0.70	0.724	0.723	0.742	0.741

B PANELS

4.3 BHF-36 Cellular Composite Deck

Normal Weight Concrete (145 pcf)

Maximum Unshored Spans



BHF-36 Cellular Shoring Table

Total Slab Depth (in)	145 pcf Normal Weight Concrete					
	Volume cy/100sf	Gage	Slab and Deck psf	Maximum Unshored Span		
				Single	Double	Triple
3 1/2	0.776	20/20	34.0	8' - 5"	10' - 9"	9' - 9"
		20/18	34.5	8' - 7"	10' - 11"	9' - 10"
		20/16	35.0	8' - 8"	11' - 0"	10' - 0"
		18/20	34.7	10' - 5"	12' - 5"	11' - 11"
		18/18	35.2	10' - 8"	13' - 3"	12' - 0"
		18/16	35.7	10' - 11"	13' - 5"	12' - 2"
		16/20	35.4	11' - 1"	13' - 3"	12' - 11"
		16/18	35.8	11' - 4"	13' - 11"	13' - 1"
		16/16	36.3	11' - 6"	14' - 1"	13' - 3"
4 1/2	1.085	20/20	46.1	7' - 7"	9' - 9"	8' - 10"
		20/18	46.6	7' - 9"	9' - 11"	9' - 0"
		20/16	47.1	7' - 10"	10' - 0"	9' - 1"
		18/20	46.8	9' - 6"	11' - 3"	10' - 10"
		18/18	47.2	9' - 9"	12' - 1"	10' - 11"
		18/16	47.8	9' - 11"	12' - 2"	11' - 0"
		16/20	47.4	10' - 1"	12' - 0"	12' - 1"
		16/18	47.9	10' - 5"	13' - 0"	12' - 3"
		16/16	48.4	10' - 7"	13' - 2"	12' - 4"
5 1 Hour Fire Rating	1.239	20/20	52.1	7' - 3"	9' - 5"	8' - 6"
		20/18	52.6	7' - 5"	9' - 6"	8' - 7"
		20/16	53.1	7' - 6"	9' - 7"	8' - 8"
		18/20	52.8	9' - 1"	10' - 10"	10' - 4"
		18/18	53.3	9' - 4"	11' - 7"	10' - 6"
		18/16	53.8	9' - 7"	11' - 8"	10' - 7"
		16/20	53.5	9' - 9"	11' - 6"	11' - 9"
		16/18	54.0	10' - 0"	12' - 8"	11' - 11"
		16/16	54.5	10' - 3"	12' - 10"	12' - 0"
6 2 Hour Fire Rating	1.548	20/20	64.2	6' - 9"	8' - 9"	7' - 11"
		20/18	64.7	6' - 10"	8' - 10"	8' - 0"
		20/16	65.2	6' - 11"	8' - 11"	8' - 1"
		18/20	64.9	8' - 7"	10' - 0"	9' - 8"
		18/18	65.4	8' - 9"	10' - 9"	9' - 9"
		18/16	65.9	8' - 10"	10' - 10"	9' - 10"
		16/20	65.6	9' - 2"	10' - 9"	11' - 1"
		16/18	66.0	9' - 5"	11' - 11"	11' - 4"
		16/16	66.6	9' - 7"	12' - 2"	11' - 6"
6 3/4 3 Hour Fire Rating	1.780	20/20	73.3	6' - 5"	8' - 4"	7' - 6"
		20/18	73.8	6' - 6"	8' - 5"	7' - 7"
		20/16	74.3	6' - 8"	8' - 6"	7' - 8"
		18/20	73.9	8' - 2"	9' - 7"	9' - 2"
		18/18	74.4	8' - 4"	10' - 3"	9' - 3"
		18/16	74.9	8' - 5"	10' - 4"	9' - 4"
		16/20	74.6	8' - 9"	10' - 3"	10' - 8"
		16/18	75.1	9' - 0"	11' - 5"	10' - 10"
		16/16	75.6	9' - 3"	11' - 9"	10' - 11"

Shaded area the span is governed by maximum deck panel length of 40 feet; 20 feet for double span, 13 feet 4 inches for triple span.



BHF-36 Cellular Shoring Table

Total Slab Depth (in)	110 pcf Light Weight Concrete					
	Volume cy/100sf	Gage	Slab and Deck psf	Maximum Unshored Span		
				Single	Double	Triple
3 1/2	0.776	20/20	26.7	9' - 3"	11' - 9"	10' - 7"
		20/18	27.2	9' - 4"	11' - 10"	10' - 9"
		20/16	27.7	9' - 6"	11' - 11"	10' - 10"
		18/20	27.3	11' - 3"	13' - 6"	12' - 11"
		18/18	27.8	11' - 6"	14' - 4"	13' - 1"
		18/16	28.3	11' - 8"	14' - 5"	13' - 2"
		16/20	28.0	11' - 10"	14' - 5"	13' - 4"
		16/18	28.5	12' - 1"	14' - 9"	13' - 4"
		16/16	29.0	12' - 3"	14' - 11"	13' - 4"
4 1 Hour Fire Rating	0.931	20/20	31.3	8' - 9"	11' - 2"	10' - 1"
		20/18	31.7	8' - 11"	11' - 4"	10' - 3"
		20/16	32.3	9' - 0"	11' - 5"	10' - 4"
		18/20	31.9	10' - 9"	12' - 10"	12' - 4"
		18/18	32.4	11' - 0"	13' - 9"	12' - 6"
		18/16	32.9	11' - 3"	13' - 11"	12' - 7"
		16/20	32.6	11' - 5"	13' - 9"	13' - 3"
		16/18	33.1	11' - 8"	14' - 3"	13' - 4"
		16/16	33.6	11' - 10"	14' - 5"	13' - 4"
4 1/2	1.085	20/20	35.9	8' - 4"	10' - 8"	9' - 8"
		20/18	36.3	8' - 6"	10' - 10"	9' - 10"
		20/16	36.8	8' - 7"	10' - 11"	9' - 11"
		18/20	36.5	10' - 4"	12' - 3"	11' - 10"
		18/18	37.0	10' - 7"	13' - 2"	11' - 11"
		18/16	37.5	10' - 10"	13' - 4"	12' - 1"
		16/20	37.2	11' - 0"	13' - 2"	12' - 10"
		16/18	37.7	11' - 3"	13' - 10"	13' - 0"
		16/16	38.2	11' - 6"	14' - 0"	13' - 2"
4 3/4 2 Hour Fire Rating	1.162	20/20	38.1	8' - 2"	10' - 6"	9' - 6"
		20/18	38.6	8' - 4"	10' - 7"	9' - 7"
		20/16	39.1	8' - 5"	10' - 8"	9' - 8"
		18/20	38.8	10' - 2"	12' - 1"	11' - 7"
		18/18	39.3	10' - 5"	12' - 11"	11' - 8"
		18/16	39.8	10' - 7"	13' - 0"	11' - 10"
		16/20	39.5	10' - 10"	12' - 10"	12' - 8"
		16/18	39.9	11' - 1"	13' - 8"	12' - 10"
		16/16	40.5	11' - 4"	13' - 10"	13' - 0"
5 11/16 3 Hour Fire Rating	1.452	20/20	46.7	7' - 7"	9' - 10"	8' - 11"
		20/18	47.2	7' - 9"	9' - 11"	9' - 0"
		20/16	47.7	7' - 10"	10' - 0"	9' - 1"
		18/20	47.4	9' - 6"	11' - 3"	10' - 10"
		18/18	47.9	9' - 9"	12' - 1"	10' - 11"
		18/16	48.4	10' - 0"	12' - 2"	11' - 1"
		16/20	48.1	10' - 2"	12' - 1"	12' - 1"
		16/18	48.5	10' - 5"	13' - 0"	12' - 3"
		16/16	49.1	10' - 8"	13' - 2"	12' - 5"

Shaded area the span is governed by maximum deck panel length of 40 feet; 20 feet for double span, 13 feet 4 inches for triple span.