

FLOOR-CEILING ASSEMBLIES WITH COMPOSITE DECK

Restrained Assembly Rating	Type of Protection	Concrete Thickness & Type (1)	Classified Deck Type	U.L. Design No. (2, 3, 4)	Unrestrained Beam Rating
¾ Hr.	Unprotected Deck	2 ½" LW	1.5CF, 2CF, 3CF	D914	1 Hr.
			1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
1 Hr.	Exposed Grid	2 ½" NW	1.5CF, 2CF, 3CF	D216	2, 3 Hr.
	Cementitious	2" NW&LW	2CF, 3CF	D743	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D703	1.5 Hr.
		2 ½" NW&LW	1.5CF, 2CF, 3CF	D712	2 Hr.
			1.5CF, 2CF, 3CF	D722	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
			1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
	Sprayed Fiber	2" NW&LW	1.5CF, 2CF, 3CF	D859	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D832	1, 1.5, 2, 3 Hr.
		2 ½" NW&LW	2CF, 3CF	D847	1, 1.5, 3 Hr.
			1.5CF, 2CF, 3CF	D858	1, 1.5, 2, 4 Hr.
	Unprotected Deck	2 ½" LW	1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D914	1 Hr.
			1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D919	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
		3 ½" NW	1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D919	1, 1.5 Hr.
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
1 ½ Hr.	Gypsum Board	2 ½" NW	1.5CF, 2CF, 3CF	D502	1.5, 2 Hr.
	Cementitious	2" NW&LW	2CF, 3CF	D743	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D703	1.5 Hr.
		2 ½" NW&LW	1.5CF, 2CF, 3CF	D712	2 Hr.
			2CF, 3CF	D722	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
	Sprayed Fiber	2" NW&LW	1.5CF, 2CF, 3CF	D859	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D832	1, 1.5, 2, 3 Hr.
		2 ½" NW&LW	2CF, 3CF	D847	1, 1.5, 3 Hr.
			1.5CF, 2CF, 3CF	D858	1, 1.5, 2, 4 Hr.
	Unprotected Deck	3" LW	1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D919	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
		4" NW	1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D919	1, 1.5 Hr.
2 Hr.	Exposed Grid	2 ½" NW	1.5CF, 2CF, 3CF	D216	2, 3 Hr.
	Gypsum Board	2 ½" NW	1.5CF, 2CF, 3CF	D502	1.5, 2 Hr.
	Cementitious	2" NW&LW	2CF, 3CF	D743	1, 1.5, 2, 3 Hr.
			1.5CF	D746	1, 1.5, 2, 3 Hr.
		2 ½" LW	1.5CF, 2CF, 3CF	D752	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D703	1.5 Hr.
			1.5CF, 2CF, 3CF	D712	2 Hr.
			1.5CF, 2CF, 3CF	D716	1.5, 2 Hr.
			2CF, 3CF	D722	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
			2CF, 3CF	D745	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D755	1, 1.5, 2, 3 Hr.
			2CF, 3CF	D730	1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D742	1, 1.5 Hr.
2 ½" NW	2CF, 3CF	D730	1.5, 2 Hr.		
1.5CF, 2CF, 3CF	D742	1, 1.5 Hr.			

NOTES:

1. Concrete thickness is thickness of slab above deck, in.
2. Refer to the U.L. "Fire Resistance Directory" for the necessary construction details.

3. Deck finish shall be galvanized

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2 Hr. (continued)	Sprayed Fiber	2 ½" LW	1.5CF, 2CF, 3CF	D859	1, 1.5, 2, 3 Hr.
		2 ½" NW&LW	2CF, 3CF	D822	1 Hr.
			1.5CF, 2CF, 3CF	D825	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D831	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D832	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D833	1.5 Hr.
			2CF, 3CF	D847	1, 1.5, 3 Hr.
			1.5CF, 2CF, 3CF	D858	1, 1.5, 2, 4 Hr.
			2CF, 3CF	D861	1, 1.5 Hr.
		1.5CF, 2CF, 3CF	D870	1, 2 Hr.	
	2 ½" LW	2CF, 3CF	D862	1 Hr.	
	3 ¼" LW	1.5CF, 2CF, 3CF	D860	1, 1.5, 2 Hr.	
	Unprotected Deck	3 ¼" LW	1.5CF, 2CF, 3CF	D733	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D826	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D840	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D913	1 Hr.
			1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D919	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D920	1.5 Hr.
			1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
		4 ½" NW	1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D918	1, 1.5 Hr.
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
3 Hr.	Exposed Grid	3 ¼" NW	1.5CF, 2CF, 3CF	D216	2, 3 Hr.
	Cementitious	2" NW&LW	2CF, 3CF	D743	1, 1.5, 2, 3 Hr.
		2 ½" LW	1.5CF	D746	1, 1.5, 2, 3 Hr.
		2 ½" NW&LW	1.5CF, 2CF, 3CF	D703	1.5 Hr.
			1.5CF, 2CF, 3CF	D708	1.5, 3 Hr.
			1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
			1.5CF, 2CF, 3CF	D755	1, 1.5, 2, 3 Hr.
		3 ¼" LW	1.5CF, 2CF, 3CF	D754	1.5, 2 Hr.
		3 ½" NW	1.5CF, 2CF, 3CF	D742	1, 1.5 Hr.
	Sprayed Fiber	2" NW&LW	1.5CF, 2CF, 3CF	D859	1, 1.5, 2, 3 Hr.
		2 ½" NW&LW	1.5CF, 2CF, 3CF	D816	1.5, 2 Hr.
			2CF, 3CF	D831	1, 1.5, 2 Hr.
			1.5CF, 2CF, 3CF	D832	1, 1.5, 2, 3 Hr.
			1.5CF, 2CF, 3CF	D833	1.5 Hr.
			1.5CF, 2CF, 3CF	D858	1, 1.5, 2, 4 Hr.
		2CF, 3CF	D871	1, 1.5, 2, 3 Hr.	
		2 ½" NW	3CF	D864	1.5 Hr.
		3 ¼" LW	2CF, 3CF	D860	1, 1.5, 2 Hr.
		Unprotected Deck	4-3/16" LW	1.5CF, 2CF, 3CF	D902
	1.5CF, 2CF, 3CF			D916	1, 1.5, 2, 3 Hr.
	1.5CF, 2CF, 3CF			D918	1, 1.5 Hr.
	1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.
	5 ¼" LW		1.5CF, 2CF, 3CF	D902	1, 1.5 Hr.
			1.5CF, 2CF, 3CF	D916	1, 1.5, 2, 3 Hr.
1.5CF, 2CF, 3CF			D918	1, 1.5 Hr.	
1.5CF, 2CF, 3CF			D919	1, 1.5 Hr.	
4 Hr.	Cementitious	2 ½" NW&LW	1.5CF, 2CF, 3CF	D739	1, 1.5, 2, 3, 4 Hr.
		3 ¼" LW	1.5CF, 2CF, 3CF	D754	1.5, 2 Hr.
	Sprayed Fiber	2 ½" NW&LW	1.5CF, 2CF, 3CF	D858	1, 1.5, 2, 4 Hr.
		3 ¼" LW	1.5CF, 2CF, 3CF	D860	1, 1.5, 2 Hr.

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