

1.4 Fire Ratings



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

UL Design Number	Minimum Beam or Joist	Unrestrained Assembly Rating ⁸ hr	Minimum Concrete Reinforcing	Fire Proofing ² On	
				Beam	Deck
D759	W8x28, 12K5, 12" deep OWSJ at 7.1plf	1, 1-1/2, 2, 3	6x6 W1.4xW1.4 with beams, 6x6 W2.9xW2.9 with joists, Fiber reinforcement	SFRM	SFRM
D760	W8x28, OWSJ	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4	SFRM	SFRM
D764	W8x28, OWSJ	2	6x6, 6x6 SWG	SFRM	SFRM
D767	W8x28, W6x12, OWSJ, Cast in place concrete beams	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4 with beams, 6x6 W2.9xW2.9 with OWSJ	SFRM	SFRM
D768	W10x17	1-1/2, 3	6x6 W2.9xW2.9	SFRM	SFRM
D775	W8x21	1-1/2, 2	6x6 W1.4xW1.4	SFRM	SFRM
D779	W8x28, 8K1	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4, Synthetic fibers	SFRM	SFRM
D782	W8x28, 10" Deep OWSJ	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4	SFRM	SFRM
D788	W8x28, 10K1	1, 1-1/2, 2, 3, 4	6x6 8x8 SWG	SFRM	SFRM
D794	W8x28, OWSJ	2	6x6 6x6 SWG	SFRM	SFRM
D795	W8x28, OWSJ	1, 1-1/2, 2, 3	6x6 W1.4xW1.4 with beams, 6x6 W2.9xW2.9 with OWSJ	SFRM	SFRM
D798	W8x28, OWSJ	1, 1-1/2, 2, 3, 4	6x6 10X10 with beams, 6x6 W1.4xW1.4 with OWSJ	SFRM	SFRM
D799	W8x28, 10K1	1, 1-1/2, 2, 3	6x6 W1.4xW1.4 with beams, 6x6 W2.9xW2.9 with OWSJ	SFRM	SFRM
D825	W8x17	1, 1-1/2, 2	6x6 W1.4xW1.4	SFRM	SFRM
D826	W8x20	0	6x6 W1.4xW1.4	SFRM	SFRM
D832	W8x24, W8x28	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM
D833	W10x25	2, 3	WWF Optional	SFRM	SFRM
D840	W8x28	0	6x6 10x10 SWG	SFRM	SFRM
D858	W10x25, Concrete beam	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4	SFRM	SFRM
D859	W8x20	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

Restrained Assembly Rating ⁸	Concrete		CF 1-3/8	Deck ³											Smooth Series™ Option	Note	UL Design Number
	Thickness	Type		BH-36	BHN-36	BHN-35 ¹ / ₄	BHF-36	NH-32	NHN-32	NHF-32	2WH-36	2WHF-36	3WXH-36	3WXHF-36			
	in	pcf															
1, 1-1/2, 2, 3	2 1/2	"147-13 NW 109-115 LW"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D759
2, 3, 4	2 1/2	"144-150 NW 107-113 LW"		✓	✓	✓					✓		✓		N		D760
2	2 1/2	117 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D764
1, 1-1/2, 2, 3, 4	2 1/2	"142-148 NW 102-120 LW (110 LW with joists)"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	3	D767
3	2 1/2	"145-151 NW 109-115 LW"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	3	D768
2	2 1/2	"142-148 NW 105-111 LW"		✓	✓	✓		✓	✓				✓		N/A		D775
1, 1-1/2, 2, 3, 4	2 1/2	"142-148 NW 102-120 LW"		✓	✓	✓		✓	✓		✓		✓		N/A		D779
1, 1-1/2, 2, 3, 4	3 1/4	115-121 LW		✓	✓	✓		✓	✓		✓		✓		N/A		D782
1, 1-1/2, 2, 3, 4	2 1/2	"NW LW"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D788
2	2 1/2	"147-153 NW 117 LW"		✓	✓	✓					✓	✓	✓	✓	N		D794
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 109-115 LW"		✓							✓	✓	✓	✓	N		D795
1, 1-1/2, 2, 3, 4	2 1/2	"142-148 NW 107-113 LW"		✓	✓	✓		✓	✓		✓		✓		N/A		D798
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 109-115 LW"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D799
2	2 1/2	"147-153 NW 105-111 LW"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	3	D825
2	3 1/4	108-114 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	3	D826
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 109-115 LW"		✓	✓	✓	✓	✓	✓	✓	✓		✓		N	3	D832
2, 3	2 1/2	"147-153 NW 109-115 LW"									✓	✓	✓	✓	N	3	D833
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D840
	3 1/4	107-116 LW						✓	✓	✓	✓	✓	✓	✓	N		
	3 1/2	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		
1, 1-1/2, 2, 3, 4	2 1/2	"147-153 NW 108-115 LW"									✓		✓		N/A	3	D858
1, 1-1/2, 2, 3	2	"142-148 NW 108-115 LW"									✓	✓	✓	✓	N	3	D859

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Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

UL Design Number	Minimum Beam or Joist	Unrestrained Assembly Rating ⁸	Minimum Concrete Reinforcing	Fire Proofing ² On	
		hr		Beam	Deck
D861	W8x15, W10x25	1-1/2, 2	6x6 W1.4xW1.4	SFRM	SFRM
D862	W8x21	1	6x6 W1.4xW1.4	SFRM	SFRM
D867	W8x18	1-1/2, 2	6x6 6x6 SWG	SFRM	SFRM
D871	W8x21, Concrete beam	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM
D875	W8x20	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM
D877	W8x17	1, 1-1/2, 2	6x6 W1.4xW1.4	SFRM	SFRM
D878	W8x20	0	6x6 W1.4xW1.4	SFRM	SFRM
D883	W8x24, W8x28	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM
D884	W10x25	2, 3	WWF Optional	SFRM	SFRM
D888	W8x28	0	6x6 10x10 SWG	SFRM	None
D891	W10x25, Concrete beam	1, 1-1/2, 2, 3, 4	6x6 W1.4xW1.4	SFRM	SFRM
D892	W8x15, W10x25	1-1/2, 2	6x6 W1.4xW1.4	SFRM	SFRM
D893	W8x21	1	6x6 W1.4xW1.4	SFRM	SFRM
D898	W8x21, Concrete beam	1, 1-1/2, 2, 3	6x6 W1.4xW1.4	SFRM	SFRM
D902	W12x14, W8x28, W8x24, W6x21, 8K1, 12K5, OWSJ	1, 1-1/2, 2, 3	6x6 10x10 SWG, Fiber reinforcement	SFRM	none



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

Restrained Assembly Rating ⁸	Concrete		CF 1-3/8	Deck ³										Smooth Series™ Option	Note	UL Design Number	
	Thickness	Type		BH-36	BHN-36	BHN-35¼	BHF-36	NH-32	NHN-32	NHF-32	2WH-36	2WHF-36	3WXH-36				3WXHF-36
hr	in	pcf															
2	2 1/2	"137-150 NW 107-115 LW"									✓		✓	N		D861	
2	2 1/2	99-105 LW						✓	✓		✓		✓	N/A		D862	
3	-	"144-150 NW 107-113 LW"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N		D867	
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 108-115 LW"									✓		✓	✓	N	3	D871
1, 1-1/2, 2, 3	2	"142-148 NW 108-115 LW"									✓		✓	N/A	3	D875	
2	2 1/2	"147-153 NW 105-111 LW"									✓		✓	N/A	3	D877	
2	3 1/4	108-114 LW		✓	✓	✓					✓		✓	N/A	3	D878	
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 109-115 LW"									✓		✓	N/A	3	D883	
2, 3	2 1/2	"147-153 NW 107-115 LW"									✓			N/A	3	D884	
2	3 1/4	107-113 LW		✓	✓	✓		✓	✓		✓		✓	N/A		D888	
	3 1/4	107-116 LW						✓	✓		✓		✓				
	3 1/2	107-120 LW	✓	✓	✓	✓		✓	✓		✓		✓				
1, 1-1/2, 2, 3, 4	2 1/2	"147-153 NW 108-115 LW"									✓		✓	N/A	3	D891	
2	2 1/2	"137-150 NW 107-115 LW"									✓			N/A	3	D892	
2	2 1/2	109-115 LW									✓		✓	N/A		D893	
1, 1-1/2, 2, 3	2 1/2	"147-153 NW 108-115 LW"									✓		✓	N/A	3	D898	
1	3 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	D902		
1-1/2	4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
2	4 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
3	5 1/4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
1-1/2	3	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
2	3 1/4	107-116 LW						✓	✓	✓	✓	✓	✓	Y			
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
1	2 5/8	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
2	3 1/2	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			
3	4 7/16	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y			

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Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

UL Design Number	Minimum Beam or Joist	Unrestrained Assembly Rating ⁸	Minimum Concrete Reinforcing	Fire Proofing ² On	
		hr		Beam	Deck
D907	W8x17, W8x28	0	6x6 W1.4xW1.4	SFRM	none
D914	W8x28	0	6x6 W1.4xW1.4	SFRM	none
D916	W8x28, OWSJ	0	6x6 10x10 SWG	SFRM	none
D918	W8x20	0	6x6 W1.4xW1.4	SFRM	none
D919	W8x28	0	6x6 W1.4xW1.4	SFRM	none
D920	W8x28	0	6x6 W1.4xW1.4	SFRM	none
D922	W8x28, OWSJ	0	6x6 10x10 SWG	SFRM	none

Figure 1.4.1: **ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE**

Restrained Assembly Rating ⁸	Concrete		CF 1-3/8	Deck ³										Smooth Series™ Option	Note	UL Design Number	
	Thickness	Type		BH-36	BHN-36	BHN-35¼	BHF-36	NH-32	NHN-32	NHF-32	2WH-36	2WHF-36	3WXH-36				3WXHF-36
hr	in	pcf															
2	3 1/4	110 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		D907
3/4, 1	2 1/2	110 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		D914
1	3 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	4, 5	D916
1-1/2	4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	4 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	5 1/4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3/4 or 1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1-1/2	3	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-116 LW						✓	✓	✓	✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	2 5/8	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/2	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 7/16	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	3 1/2	150-156 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	4, 5	D918
1-1/2	4	150-156 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	4 1/2	150-156 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	5 1/4	150-156 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/2	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 7/16	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	3 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		D919
1-1/2	4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	4 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	5 1/4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1-1/2	3	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-116 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/2	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 7/16	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	110-120 LW									✓	✓	✓	✓	Y		D920
Refer to D916 for these values.																D922	

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Figure 1.4.1: **ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE**

UL Design Number	Minimum Beam or Joist	Unrestrained Assembly Rating ⁸	Minimum Concrete Reinforcing	Fire Proofing ² On	
		hr		Beam	Deck
D923	W8x28	0	6x6 10x10 SWG	SFRM	none
D924	W8x28	0	Synthetic fibers, negative reinforcing steel	SFRM	none
D925	W8x28, W8x16, 8K1 OWSJ	0	6x6 10x10 SWG or negative bending reinforcement with synthetic fibers	SFRM	none
D927	W8x28, OWSJ	0	6x6 10x10 SWG	SFRM	none
D929	W8x28	0	6x6 10x10 SWG	SFRM	none
D931	W8x28	0 or 1	6x6 10x10 SWG	SFRM	none
D949	W8x28	0	6x6 10x10 SWG	SFRM	none
D957	W12x14, W8x28, W8x24, W6x12, OWSJ	1, 1-1/2, 2, 3	6x6 10x10 SWG		none



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

Restrained Assembly Rating ⁸	Concrete		CF 1-3/8	Deck ³										Smooth Series™ Option	Note	UL Design Number	
	Thickness	Type		BH-36	BHN-36	BHN-35 ¹ / ₄	BHF-36	NH-32	NHN-32	NHF-32	2WH-36	2WHF-36	3WXH-36				3WXHF-36
hr	in	pcf															
1	3 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	D923	
1-1/2	4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	4 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	5 1/4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1-1/2	3	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/4	107-116 LW						✓	✓	✓	✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
1	2 5/8	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	3 1/2	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
3	4 7/16	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y		
2	4 1/8	142-148 NW		✓	✓	✓					✓		✓		N/A	4	D924
2	4 3/8	142-148 NW		✓	✓	✓					✓		✓		N/A	5	
2	3 1/8	105-111 LW		✓	✓	✓					✓		✓		N/A		
3	5	142-148 NW		✓	✓	✓					✓		✓		N/A	4	
3	5 3/8	142-148 NW		✓	✓	✓					✓		✓		N/A	5	
3	4	105-111 LW		✓	✓	✓					✓		✓		N/A		
Refer to D902 for these values.																D925	
Refer to D916 for these values.																D927	
Refer to D916 for these values.																D929	
Refer to D902 for these values.																D931	
Refer to D916 for these values.																D949	
1	3 1/2	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y	D957	
1-1/2	4	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	4 1/2	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
3	5 1/4	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
1	2 1/2	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
1-1/2	3	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 1/4	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 1/4	107-116 LW									✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
1	2 5/8	107-120 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 1/2	114-120 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
3	4 7/16	114-120 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		

1.4 Fire Ratings



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

UL Design Number	Minimum Beam or Joist	Unrestrained Assembly Rating ⁸	Minimum Concrete Reinforcing	Fire Proofing ² On	
				Beam	Deck
		hr			
D967	W8x28	0	6x6 W1.4xW1.4	SFRM	none
D968	W8x28	0	6x6 W1.4xW1.4		none
D973	W8x28	0	Fiber - Ultra Fiber 500		none
D974	W8x28	1-1/2	6x6 10x10 SWG		none
D975	W8x28, W8x24, W6x12	1, 1-1/2, 2, 3	6x6 10x10 SWG		none
D976	W8x28 OWSJ	1, 1-1/2, 2	6x6 8x8 SWG		none
D977	W8x28, OWSJ	1, 1-1/2	6x6 8x8 SWG		none
D985	W8x28, 10K1	0	6x6 10x10 SWG		none
D988	W8x28, 10K1	1, 1-1/2, 2, 3	6x6 W1.4xW1.4		none

Table Notes:

1. This table summarizes ASC Steel Deck's UL fire listings. Refer to the UL website for the most accurate and up-to-date listings.
2. SFRM = Spray-Applied Fire Resistive Material.
3. ASC Steel Deck may be used as blend deck with other manufacturers electrified cellular deck or trench.
4. Carbonate Aggregate.
5. Siliceous Aggregate.
6. BK Holding Corp. Ultra Fiber 500®
7. Syntheon Inc. Elemix® XE and Grey XE concrete additive.
8. For restrained fire ratings see UL listing for additional requirements.



Figure 1.4.1: ASC STEEL DECK- UNDERWRITERS LABORATORIES (UL) FIRE RESISTANCE

Restrained Assembly Rating ⁸	Concrete		CF 1-3/8	Deck ³										Smooth Series™ Option	Note	UL Design Number	
	Thickness	Type		BH-36	BHN-36	BHN-35 ¹ / ₄	BHF-36	NH-32	NHN-32	NHF-32	2WH-36	2WHF-36	3WXH-36				3WXHF-36
hr	in	pcf															
3/4, 1	2 1/2	110 LW		✓	✓	✓					✓		✓		N/A	D967	
1	3 1/2	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y	D968	
1-1/2	4	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	4 1/2	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
3	5 1/4	147-153 NW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
1	2 1/2	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
1-1/2	3	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 1/4	107-116 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
3	4 3/16	107-113 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 1/2	114-120 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
3	4 7/16	114-120 LW		✓	✓	✓	✓				✓	✓	✓	✓	Y		
2	3 3/4	142-148 NW									✓				N/A	6	D973
3	4 1/2	114-120 NW						✓							N/A	7	D974
Refer to D957 for these values.																D975	
1, 1-1/2, 2	3 1/2	111-117 NW						✓							N/A	7	D976
1, 1-1/2, 2	3 1/2	112.5-106.5 LW						✓	✓						N/A	7	D977
1	3 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N	D985	
1-1/2	4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
2	4 1/2	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
3	5 1/4	147-153 NW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
3/4 or 1	2 1/2	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
1-1/2	3	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
2	3 1/4	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
2	3 1/4	107-116 LW						✓	✓	✓	✓		✓		N		
3	4 3/16	107-113 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
1	2 5/8	107-120 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
2	3 1/2	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
3	4 7/16	114-120 LW		✓	✓	✓	✓	✓	✓	✓	✓		✓		N		
Refer to D902 for these values.																	D988