



Listings / Approvals	
UL Category EMME (all models)	California State Fire Marshal
R13317	FSD/OFSD/SSFSD (fire) 3225-0981:103
	FSD/OFSD/SSFSD (leakage) 3230-0981:104
	CFSD (leakage) 3230-0981:105
	CFSD (fire) 3225-0981:106
	FSDR/SSFSDR (fire) 3225-0981:112
	FSDR/SSFSDR (leakage) 3230-0981:113

MODEL		FIRE RATING (hours)	LEAKAGE CLASS	SIZE LIMITATIONS (W X H, in.) Fail Close						SIZE LIMITATIONS (W X H, in.) Fail Open				TEMPERATURE RATING (°F)	MAXIMUM VELOCITY (fpm)	MAXIMUM PRESSURE (in. w.g.)
Old	New UL			SINGLE SECTION				MULTI-SECTION		SINGLE SECTION						
				HORIZONTAL		VERTICAL		HORIZONTAL	VERTICAL	HORIZONTAL		VERTICAL				
				MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MAXIMUM		MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			
Fire/Smoke Dampers																
FSD-23	FSD-211	1.5	I	6 x 6	32 X 50 or 36 X 48	6 x 6	32 X 50 or 36 X 48	144 X 96	128 X 100	8 X 6 (250°F)	30 X 30 (250°F)	8 X 6 (250°F)	30 X 30 (250°F)	350	2000	4
				6 x 6	36 X 48	6 x 6	36 X 48	144 X 96	128 X 96	---				350	2000	6
	FSD-211M	1.5	I	8 x 6	36 x 36	8 x 6	36 x 36	72 x 72	72 x 72	---				250	2000	4
	GFSD-211	1.5	I	12 x 12	36 x 48	12 x 12	36 x 48	48 x 48	48 x 48	---				350	2000	4
	SEFSD-211	1.5	I	8 X 6	24 X 30	8 X 6	24 X 30 or 22 X 36	48 X 30	88 X 72	8 X 6 (250°F)	24 X 30 (250°F)	8 X 6 (250°F)	24 X 30 (250°F)	350	2000	4
				8 X 6	24 X 30	8 X 6	24 X 30	48 X 30	88 X 72	---				350	2000	6
SSFSD-23	SSFSD-211	1.5	I	8 X 6	24 X 30	8 X 6	24 X 30 or 22 X 36	48 X 30	88 X 72	8 X 6 (250°F)	24 X 30 (250°F)	8 X 6 (250°F)	24 X 30 (250°F)	350	2000	4
				8 X 6	24 X 30	8 X 6	24 X 30	48 X 30	88 X 72	---				350	2000	6
FSD-33	FSD-311	1.5	I	6 x 6	32 x 50	6 x 6	32 x 50	144 x 96	128 X 100	6 x 6	33 x 30 (250°)	6 x 6	30 x 30 (250°)	250	2000	4
				6 x 6	32 x 50	6 x 6	32 x 50	144 x 96	128 X 100	---				350	2000	4
				6 X 6	32 X 50	6 X 6	32 X 50	128 x 96 or 144 x 72	128 X 100	---				250	2000	8
				6 X 6	32 x 50	6 X 6	32 x 50	128 x 96 or 144 x 72	128 x 100	---				350	3000	4
				6 X 6	32 x 50	6 X 6	32 x 50	128 x 96 or 144 x 72	128 x 100	---				250	3000	8
				6 x 6	32 X 50	6 x 6	32 X50	128 x 96	128 x 100	---				350	4000	4
---	FSD-311M	1.5	I	6 x 6	32 x 50	6 x 6	32 x 50	72 x 72	72 x 72	---	---	---	---	250	2000	4
---	FSD-311V	1.5	I	---	---	6 X 8	50 X 32	---	100 x 32	---				350	2000	4
				---	---	6 X 8	50 X 32	---	---	---				350	4000	4
---	FSDR-511	1.5	I	6" diameter	24" diameter	6" diameter	24" diameter	---		---				350	3000	4
				6" diameter	16" diameter	6" diameter	16" diameter	---		---				350	4000	4
---	SSFSDR-511	1.5	I	6" diameter	24" diameter	6" diameter	24" diameter	---		---				350	3000	4
		1.5	I	6" diameter	16" diameter	6" diameter	16" diameter	---		---				350	4000	4
CFSD-23	CFSD-211	1.5	I	8 X 6	24 X 24	8 x 6	24 x 24	single section only		8 X 6 (250°F)	24 X 24 (250°F)	8 X 6 (250°F)	24 X 24 (250°F)	350	2000	4
OFSD-23	OFSD-211	1.5	I	6 x 6	36 x 36	6 x 6	36 X 36	single section only		12 x 12 (250°F)	30 X 30 (250°F)	12 X 12 (250°)	30 X 30 (250°F)	350	2000	4
OFSD-33	OFSD-311	1.5	I	6 x 6	32 x 30	6 x 6	32 x 30	single section only		12 x 12	30 X 30	12 X 12	30 X 30	350	4000	4

Combination Fire/Smoke Damper UL Listings

MODEL		FIRE RATING (hours)	LEAKAGE CLASS	SIZE LIMITATIONS (W X H, in.) Fail Close						SIZE LIMITATIONS (W X H, in.) Fail Open				TEMPERATURE RATING (°F)	MAXIMUM VELOCITY (fpm)	MAXIMUM PRESSURE (in. w.g.)
Old	New UL			SINGLE SECTION				MULTI-SECTION		SINGLE SECTION						
				HORIZONTAL		VERTICAL		HORIZONTAL	VERTICAL	HORIZONTAL		VERTICAL				
				MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MAXIMUM		MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			
Fire/Smoke Dampers																
	FSD-331	3	I	8 x 6	30 x 48	8 x 6	32 x 36 or 30 x 48	144 x 96	128 x 96	6 x 6	36 x 36 (250°)	6 x 6	36 x 36 (250°)	350	2000	4
				8 x 6	30 x 48	8 x 6	32 x 36 or 30 x 48	120 x 96	128 x 96	---				250	2000	8
				8 x 6	30 x 48	8 x 6	32 x 36 or 30 x 48	120 x 96	128 x 96	---				350	3000	6
				8 x 6	30 x 48	8 x 6	32 x 36 or 30 x 48	120 x 96	128 x 96	---				250	3000	8
				8 x 6	30 x 48	8 x 6	30 X 48	120 x 96	128 x 96	---				350	4000	4
FSD-22	FSD-212	1.5	II	6 x 6	32 X 50 or 36 X 48	6 x 6	32 X 50 or 36 X 48	144 X 96	128 X 100	8 X 6 (250°F)	30 X 30 (250°F)	8 X 6 (250°F)	30 X 30 (250°F)	350	2000	4
				6 x 6	36 X 48	6 x 6	36 X 48	144 X 96	128 X 96	---				350	2000	6
---	FSD-312	1.5	II	6 x 6	32 x 50	6 x 6	32 x 50	144 x 96	128 X 100	6 x 6	36 x 36 (250°)	6 x 6	36 x 36 (250°)	250	2000	4
				6 x 6	32 x 50	6 x 6	32 x 50	144 x 96	128 X 100	---				350	2000	4
				6 X 6	32 X 50	6 X 6	32 X 50	128 x 96 or 144 x 72	128 X 50	---				250	2000	8
				6 X 6	32 x 50	6 X 6	32 x 50	128 x 96 or 144 x 72	128 x 100	---				350	3000	4
				6 X 6	32 x 50	6 X 6	32 x 50	128 x 96 or 144 x 72	128 x 100	---				250	3000	8
				6 x 6	32 X 50	6 x 6	32 X50	128 x 96	128 x 100	---				350	4000	4
OFSD-22	OFSD-212	1.5	II	6 x 6	36 x 36	6 x 6	36 X 36	single section only		12 x 12 (250°F)	30 X 30 (250°F)	12 X 12 (250°)	30 X 30 (250°F)	350	2000	4
FSD-21	FSD-213	1.5	III	6 x 6	32 X 50 or 36 X 48	6 x 6	32 X 50 or 36 X 48	144 X 96	128 X 100	8 X 6 (250°F)	30 X 30 (250°F)	8 X 6 (250°F)	30 X 30 (250°F)	350	2000	4
				6 x 6	36 X 48	6 x 6	36 X 48	144 X 96	128 X 96	---				350	2000	6