

Comparison of UL HW-D Listings by Movement

Listing Information taken from the 2004 UL Fire Resistance - Volume 2A Directory

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UL Listing No.	Sponsor	Hourly Rating	Nominal (Installed) Width by "	% Compression (Deflection) Movement	Actual Compression (Deflection) by "	% Extension Movement	Actual Extension by "
HW-D-1011	Fire Trak	1,2&3	3"	100%	3"	100%	3"
HW-D-1012	Fire Trak	1,2&3	3"	100%	3"	100%	3"
HW-D-1019	Fire Trak	1&2	3"	100%	3"	100%	3"
HW-D-1020	Fire Trak	1&2	3"	100%	3"	100%	3"
HW-D-1016	JM	2	4 3/8"	45.7%	2"	11.4%	1/2"
HW-D-1028	PFPP	2	4 3/8"	45.7%	2"	11.4%	1/2"
HW-D-1033	PFPP	1&2	4 3/8"	45.7%	2"	11.4%	1/2"
HW-D-0060	Fire Trak	1,2&3	1"	100%	1"	100%	1"
HW-D-0061	Fire Trak	1,2&3	1"	100%	1"	100%	1"
HW-D-0117	Fire Trak	1&2	1"	100%	1"	100%	1"
HW-D-0118	Fire Trak	1&2	1"	100%	1"	100%	1"
HW-D-0119	Fire Trak	1&2	1"	100%	1"	100%	1"
HW-D-0120	Fire Trak	2&3	1"	100%	1"	100%	1"
HW-D-0363	STI	1&2	3/4"	100%	3/4"	100%	3/4"
HW-D-0371	STI	1&2	3/4"	100%	3/4"	100%	3/4"
HW-D-0100	WR Grace	1,2,3&4	1"	62.5%	5/8"	37.5%	3/8"
HW-D-0050	WR Grace	1,2,3&4	1"	62.5%	5/8"	37.5%	3/8"
HW-D-0131	Metal-lite	2	3/4"	67%	1/2"	67%	1/2"
HW-D-0031	3M	2	2"	25%	1/2"	25%	1/2"
HW-D-0265	3M	2	2"	25%	1/2"	25%	1/2"
HW-D-0315	FPS	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0042	Hilti	1&2	1"	50%	1/2"	50%	1/2"
HW-D-0049	Hilti	1&2	1"	50%	1/2"	50%	1/2"
HW-D-0223	Nelson	2	2"	25%	1/2"	25%	1/2"
HW-D-0227	Nelson	2	2"	25%	1/2"	25%	1/2"
HW-D-0228	Nelson	1,2,3&4	2"	25%	1/2"	25%	1/2"
HW-D-0304	Nelson	2,3,&4	2"	25%	1/2"	25%	1/2"
HW-D-0305	Nelson	2	2"	25%	1/2"	25%	1/2"
HW-D-0032	Rectorseal	2	1"	50%	1/2"	50%	1/2"
HW-D-0033	Rectorseal	2	1"	50%	1/2"	50%	1/2"
HW-D-0104	Rectorseal	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0105	Rectorseal	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0054	STI	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0102	STI	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0152	STI	1&2	2"	25%	1/2"	25%	1/2"
HW-D-0001	USG	1	5/8"	80%	1/2"	60%	3/8"
HW-D-0002	USG	2	5/8"	80%	1/2"	60%	3/8"
HW-D-0165	WR Grace	2	2"	25%	1/2"	25%	1/2"
HW-D-0314	FPS	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0320	FPS	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0087	Hilti	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0089	Hilti	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0106	Hilti	1&2	2"	20%	3/8"	20%	3/8"

Comparison of UL HW-D Listings by Movement

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UL Listing No.	Sponsor	Hourly Rating	Nominal (Installed) Width by "	% Compression (Deflection) Movement	Actual Compression (Deflection) by "	% Extension Movement	Actual Extension by "
HW-D-0058	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0059	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0187	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0188	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0221	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0222	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0297	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0298	Rectorseal	1&2	2"	20%	3/8"	20%	3/8"
HW-D-0053	Carboline	1,2&3	1"	37.5%	3/8"	37.5%	3/8"
HW-D-0223	Nelson	1	1 1/2"	25%	3/8"	25%	3/8"
HW-D-0304	Nelson	1	1 1/2"	25%	3/8"	25%	3/8"
HW-D-0305	Nelson	1	1 1/2"	25%	3/8"	25%	3/8"
HW-D-0165	WR Grace	1	1 1/2"	25%	3/8"	25%	3/8"
HW-D-0020	3M	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0029	3M	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0101	3M	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0122	3M	4	1"	25%	1/4"	25%	1/4"
HW-D-0168	3M	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0170	3M	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0173	3M	1&2		25%	1/4"	25%	1/4"
HW-D-0316	FPS	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0317	FPS	2&3	1"	25%	1/4"	25%	1/4"
HW-D-0190	Hilti	1&2	2"	12.5%	1/4"	12.5%	1/4"
HW-D-0218	Hilti	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0259	Hilti	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0321	Hilti	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0322	Hilti	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0246	JM	1	1"	25%	1/4"	25%	1/4"
HW-D-0275	JM	1&2	1"	25%	1/4"	12.5%	1/8"
HW-D-0277	JM	2	1"	25%	1/4"	25%	1/4"
HW-D-0358	JWA	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0141	Metal-lite	1&2	1/2"	50%	1/4"	50%	1/4"
HW-D-0142	Metal-lite	1&2	1/2"	50%	1/4"	50%	1/4"
HW-D-0175	Metal-lite	1&2	1/2"	50%	1/4"	50%	1/4"
HW-D-0176	Metal-lite	1&2	1/2"	50%	1/4"	50%	1/4"
HW-D-0224	Nelson	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0226	Nelson	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0229	Nelson	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0231	Nelson	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0239	Nelson	2	1"	25%	1/4"	25%	1/4"
HW-D-0309	Nelson	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0310	Nelson	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0360	Nelson	1&2	1"	25%	1/4"	25%	1/4"

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HW-D-0269	Pecora	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0162	PFPP	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0185	PFPP	1		25%	1/4"	25%	1/4"
HW-D-0263	PFPP	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0271	PFPP	1&2	1"	25%	1/4"	12.5%	1/8"
HW-D-0272	PFPP	2	1"	25%	1/4"	25%	1/4"
HW-D-0278	PFPP	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0093	Rectorseal	1,2,3&4	1"	25%	1/4"	25%	1/4"
HW-D-0094	Rectorseal	1,2,3&4	1"	25%	1/4"	25%	1/4"
HW-D-0095	Rectorseal	2,3&4	1"	25%	1/4"	25%	1/4"
HW-D-0096	Rectorseal	2,3&4	1"	25%	1/4"	25%	1/4"
HW-D-0127	Rectorseal	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0128	Rectorseal	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0129	Rectorseal	2&3	1"	25%	1/4"	25%	1/4"
HW-D-0130	Rectorseal	2&3	1"	25%	1/4"	25%	1/4"
HW-D-0034	STI	2	1"	25%	1/4"	25%	1/4"
HW-D-0365	STI	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0016	Tremco	1&2	1"	25%	1/4"	0%	-0-
HW-D-0091	Tremco	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0158	USG	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0160	USG	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0107	WR Grace	2	1"	25%	1/4"	25%	1/4"
HW-D-0108	WR Grace	2	1"	25%	1/4"	25%	1/4"
HW-D-0144	WR Grace	1&2	1"	25%	1/4"	0%	-0-
HW-D-0146	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0147	WR Grace	1&2	1"	25%	1/4"	0%	-0-
HW-D-0148	WR Grace	1&2	1"	25%	1/4"	0%	-0-
HW-D-0149	WR Grace	2	1"	25%	1/4"	0%	-0-
HW-D-0150	WR Grace	2	1"	25%	1/4"	0%	-0-
HW-D-0192	WR Grace	2	2"	12.5%	1/4"	12.5%	1/4"
HW-D-0069	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0073	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0213	WR Grace	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0219	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0238	WR Grace	1,2&3	1"	25%	1/4"	25%	1/4"
HW-D-0255	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0299	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0327	WR Grace	1&2	1"	25%	1/4"	25%	1/4"
HW-D-0164	B & F	1&2	3/4"	33%	1/4"	33%	1/4"
HW-D-0339	Flammadur	1&2	3/4"	33%	1/4"	33%	1/4"
HW-D-0045	Hilti	1&2	3/4"	33%	1/4"	33%	1/4"
HW-D-0046	Hilti	1&2	3/4"	33%	1/4"	33%	1/4"
HW-D-0084	Hilti	1&2	3/4"	33%	1/4"	33%	1/4"

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HW-D-0082	Hilti	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0313	Hilti	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0047	JM	1,2,3&4	3/4”	33%	1/4”	33%	1/4”
HW-D-0048	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0066	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0067	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0068	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0167	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0186	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0193	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0195	JM	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0353	JWA	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0356	JWA	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0357	JWA	1,2,3&4	3/4”	33%	1/4”	33%	1/4”
HW-D-0368	JWA	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0370	JWA	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0027	Metal-lite	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0028	Metal-lite	1	3/4”	33%	1/4”	33%	1/4”
HW-D-0051	Metal-lite	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0052	Metal-lite	1	3/4”	33%	1/4”	33%	1/4”
HW-D-0143	Metal-lite	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0208	Metal-lite	1	3/4”	33%	1/4”	33%	1/4”
HW-D-0288	Nelson	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0183	OSI	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0341	OSI	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0024	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0025	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0036	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0062	PFPP	1,2,3&4	3/4”	33%	1/4”	33%	1/4”
HW-D-0063	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0071	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0072	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0191	PFPP	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0201	PFPP	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0211	SlipTrack	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0241	STI	1&2	3/4”	33%	1/4”	0%	0
HW-D-0242	STI	1&2	3/4”	33%	1/4”	0%	0
HW-D-0243	STI	1&2	3/4”	33%	1/4”	0%	0
HW-D-0260	STI	1&2	3/4”	33%	1/4”	33%	1/4”
HW-D-0217	WR Grace	2	3/4”	33%	1/4”	33%	1/4”
HW-D-0125	Rectorseal	3	2”	12%	1/4”	12%	1/4”
HW-D-0126	Rectorseal	3	2”	12%	1/4”	12%	1/4”
HW-D-0132	Nelson	2	3/4”	30%	7/32”	30%	7/32”

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HW-D-0014	Rectorseal	2	3/4"	30%	7/32"	30%	7/32"
HW-D-0015	Rectorseal	2	3/4"	30%	7/32"	30%	7/32"
HW-D-0112	Nelson	2	5/8"	33%	3/16"	33%	3/16"
HW-D-0282	FPS	1	1"	20%	3/16"	20%	3/16"
HW-D-0301	FPS	1	1"	20%	3/16"	20%	3/16"
HW-D-0283	Nelson	1&2	1"	20%	3/16"	20%	3/16"
HW-D-0179	Rectorseal	1&2	1"	20%	3/16"	20%	3/16"
HW-D-0180	Rectorseal	1&2	1"	20%	3/16"	20%	3/16"
HW-D-0021	3M	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0178	3M	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0205	3M	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0247	FPS	2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0249	FPS	2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0337	JM	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0290	Nelson	2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0325	Nelson	1,2&3	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0335	PFPP	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0257	SlipTrack	2	3/4"	25%	3/16"	25%	3/16"
HW-D-0043	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0044	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0079	STI	1&2	3/4"	25%	3/16"	0%	-0-
HW-D-0088	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0099	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0103	STI	1&2	3/4"	25%	3/16"	0%	-0-
HW-D-0136	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0137	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0153	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0003	STI	1&2	3/4"	25%	3/16"	0%	0
HW-D-0194	STI	2	3/4"	25%	3/16"	25%	3/16"
HW-D-0210	STI	1&2	3/4"	25%	3/16"	25%	3/16"
HW-D-0252	STI	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0291	Tremco	2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0037	WR Grace	2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0264	WR Grace	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0267	WR Grace	1&2	1"	18.75%	3/16"	18.75%	3/16"
HW-D-0018	Rectorseal	2	5/8"	25%	5/32"	25%	5/32"
HW-D-0019	Rectorseal	2	5/8"	25%	5/32"	25%	5/32"
HW-D-0197	Rectorseal	1&2	3/4"	20%	5/32"	20%	5/32"
HW-D-0198	Rectorseal	2	3/4"	20%	5/32"	20%	5/32"
HW-D-0215	Rectorseal	1&2	3/4"	20%	5/32"	20%	5/32"
HW-D-0216	Rectorseal	1&2	3/4"	20%	5/32"	20%	5/32"
HW-D-1097	Rectorseal	1&2	3/4"	20%	5/32"	20%	5/32"
HW-D-0076	Hilti	1&2	3/4"	17%	1/8"	17%	1/8"

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HW-D-0077	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0083	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0085	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0154	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0184	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0209	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0324	Hilti	1&2	3/4”	17%	1/8”	17%	1/8”
HW-D-0256	Tremco	1&2	1/2”	25%	1/8”	25%	1/8”
HW-D-0262	USG	1&2	1/2”	25%	1/8”	25%	1/8”
HW-D-0111	3M	1&2	3/4”	16.6%	1/8”	16.6%	1/8”
HW-D-0134	3M	1&2	3/4”	16.6%	1/8”	16.6%	1/8”