



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 326-96-M Vol. 5

Manufacturer: Hilti, Inc., 5400 S. 122 East Avenue, Tulsa, OK 74146

Trade Name(s): Hilti, Inc.

Product: Fill, void or cavity material for fire protection

Pertinent Code Section(s): 27-345

Prescribed Test(s): RS 5-19 (ASTM E814), UL 2079

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): File R13240, dated July 16, 1993, July 21, 1993, July 13, 1993, July 22, 1993, April 1, 1993, March 25, 1994, March 3 and 6, 1995, September 4, 1996, September 27, 1997;
File R13644, dated April 12, 1993 and May 3, 1993;
File R12232, dated August 2, 1993; UL-design listings.

Description: Fill, void or cavity material for through-penetrations in fire-rated wall and/or floor/ceiling construction. The Hilti FS-ONE Firestop Sealant shall be applied in accordance with Underwriters Laboratories Inc. system numbers, listed on following pages, in achieving the required fire-resistance ratings.

System No.	Fire Protection Ratings (HR)	
	F	T
CAJ0070	2	2
CAJ0090	2	1 1/2
CAJ1149	2	0
CAJ1150	3	0
CAJ 1151	2	0
CAJ 1152	2	0
CAJ1153	2	1/4
CAJ1154	3	1/4
CAJ1155	3	0
CAJ1156	3	0
CAJ1158	2	0
CAJ1172	2	1 1/2
CAJ1173	1	1/4
CAJ1174	3	0
CAJ 1177	2	0
CAJ1184	3	0
CAJ1226	3	0
CAJ1278	3	0
CAJ1291	2	0
CAJ1326	2	1
CAJ1342	2	0
CAJ1346	2	0
CAJ 1380	2	0
CAJ 1421	3	0
CAJ1454	3	0
CAJ1513	2	0
CAJ1534	2	0
CAJ2062	1	0
CAJ2066	1	0
CAJ2091	3	3
CAJ2094	2	0
CAJ2095	3	2 1/2
CAJ2098	3	3
CAJ2110	3	0
CAJ2118	3	0
CAJ2141	3	2
CAJ2164	2	0
CAJ2167	2	0
CAJ2168	3	0
CAJ2169	2	0
CAJ2170	2	0
CAJ2218	2	0
CAJ2220	3	0
CAJ 2283	2	2
CAJ 2284	2	2
CAJ 2285	2	2
CAJ 2294	2	0

System No.	Fire Protection Ratings (HR)	
	F	T
CAJ2304	2	1-1/2
CAJ2305	3	1-1/2
CAJ2335	3	3
CAJ2336	3	2
CAJ2237	3	1
CAJ2343	3	1
CAJ2407	2	0
CAJ2451	3	3
CAJ2567	2	1¼, 2
CAJ3069	2	1/2
CAJ3070	3	0
CAJ3078	2	1 1/2
CAJ3079	2	1 1/2
CAJ3084	3	1 1/2
CAJ3095	3	1/2,1
CAJ3096	3	0,1/2,3/4, 1, 1-1/2
CAJ3152	2	1/2
CAJ3180	3	0
CAJ3209	3	0
CAJ3236	2	0
CAJ3239	3	0,1/2,3/4,1
CAJ4071	2	0
CAJ5044	3	1
CAJ5045	2	3/4,1
CAJ5046	2	1
CAJ5047	2	2
CAJ5048	2	2
CAJ5057	3	1
CAJ5061	3	1/2
CAJ5069	2	0,1
CAJ5090	3	0
CAJ5091	2	1
CAJ5096	2	0
CAJ5098	2	1
CAJ5184	3	1-1/2
CAJ5185	3	2
CAJ5198	2	1/2
CAJ5230	2	0
CAJ5264	2	0,3/4,1½
CAJ5276	2	1
CAJ5277	2	0
CAJ5295	2	0
CAJ5301	2	1-1/2
CAJ6017	3	0
CAJ7051	3	1
CAJ7084	2	0
CAJ7103	2	¼
CAJ7104	2	¼
CAJ7111	2	0
CAJ7119	2	2

System No.	Fire Protection Ratings (HR)	
	F	T
CAJ8038	3	0,1
CAJ8041	3	1
CAJ8044	3	0
CAJ8056	3	0
CAJ8058	2	0
CAJ8081	2	0
CAJ8099	3	0,3/4
CAJ8107	3	¾, 1,1-3/4,3
CAJ8110	3	0
CAJ8143	2	0
CAJ8148	2	0
CAJ8166	3	0
CBJ1034	4	0
CBJ1037	4	0
CBJ1045	2	¼
CBJ1046	2	¼
CBJ1055	2	2
CBJ1059	3	3
CBJ2021	2	2
CBJ2014	2	2
CBJ2028	3	2 3/4
CBJ3024	2	1/2
CBJ5006	4	1/2
CBJ5007	2	1
CBJ5013	2	1
CBJ5015	2	1-1/2
CBJ5018	3	1/2
CBJ8010	3	0
CBJ8013	2	0, 1,2
CBJ8020	2	0,2
FA 1014	2	0
FA 1018	2	0
FA 1028	2	0
FA 1029	2	0
FA 2025	2	2
FA 2046	2	0
FA 2058	2	0
FA 2067	2	1/4
FA 2068	2	0
FA 2074	2	0
FA 2075	2	0
FA 2154	2	3/4
FA 3005	2	½
FA 3012	3	0,1/2,3/4
FA 4003	2	0
FA 5009	2	0
FA 5019	2	1/2
FA 5021	2	0
FA 8004	2	0

System No.	Fire Protection Ratings (HR)	
	F	T
FC 0002	1,2	1,2
FC 1009	1,2	1,2
FC 1059	1,2	0,1/2
FC 1106	1	¼
FC 1134	1	0
FC 1136	1	1
FC 1142	1	1
FC 2018	1,2	1,2
FC 2025	1,2	2
FC 2029	2	2
FC 2030	1,2	0,3/4, 1,1-1/2,2
FC 2050	1	1
FC 2051	1	1
FC 2071	1,2	1,2
FC 2072	1,2	0,1-1/2
FC 2081	1,2	1,1-1/2
FC 2125	1	0
FC 2126	1	0
FC 2127	1	0
FC 2128	1	1
FC 2142	1	1
FC 2160	1	1
FC 2185	2	2
FC 2189	1	1
FC 2203	1	1/2
FC 2204	1	1/2
FC 2270	1	1/2
FC 2310	1,2	1, 1-1/2
FC 2334	1	1
FC 2325	1	1
FC 3012	1,2	1,2
FC 3044	1	1
FC 3094	1	1
FC 5004	1,2	1,2
FC 5036	1	1
FC 5037	1	0
FC 5044	1	1
FC 7013	1	0
FC 7036	1, 2	1, 2
FC 7042	1	0
FC 8014	1	1
FC 8026	1	1
FC 8038	1	1
FE 1004	1	0
FE 2005	1	1
FE 2026	1	½
FE 2028	1	1/2
FE 3005	1	1
FE 3012	1	1
FE 5002	1	1
FE 5004	1	¼
FE 8008	1	1

System No.	Fire Protection Ratings (HR)	
	F	T
WJ1020	2	0,1/4
WJ1021	2	0,1/4
WJ1022	2	1 1/2
WJ1028	1,2	0
WJ1041	4	0
WJ1042	4	0
WJ1058	1,2	0
WJ1067	1,2	0
WJ1068	4	0
WJ1088	1,2	0
WJ1089	1,2	0
WJ1095	1	0
WJ1174	2	¼
WJ1191	1	0
WJ1193	2	¼
WJ1202	2	1/4
WJ2019	1,2	1,2
WJ2057	4	0
WJ2072	1,2	1,2
WJ2091	4	2,4
WJ2108	2	0
WJ2191	3,4	3,4
WJ2206	2	1
WJ2207	2	1
WJ3050	4	1
WJ3060	2	0
WJ3061	1,2	0
WJ3074	2	0,1/2
WJ4016	2	0
WJ4026	1	0
WJ4027	2	0
WJ4029	2	0
WJ4059	2	1/2
WJ5003	2	1 3/4
WJ5028	4	1 1/2
WJ5041	1,2	1/2,3/4
WJ5042	1,2	1/2,3/4,1,1 ¾
WJ5066	1,2	1/2
WJ5067	1	1
WJ5126	2	1 ½
WJ5134	2	1
WJ6003	2	0
WJ7001	1	0
WJ7021	1,2	0,1
WJ7022	1,2	0
WJ7029	1,2	1/2, ¾
WJ7038	1,2	0
WJ7039	1,2	0
WJ7091	2	1/1
WJ8004	2	¼

System No.	Fire Protection Ratings (HR)	
	F	T
WJ8007	4	0
WJ8008	4	0
WJ8009	4	0
WJ8016	2	½,1,1-1/2,2
WJ8022	2	¼
WJ8035	2	0
WJ8039	2	1/2
WL1054	1,2	0
WL1056	2	0
WL1057	2	0
WL1058	2	0,1/4
WL1085	1,2	0
WL1092	1,2	0,1/4
WL1095	1,2	1,2
WL1110	4	0
WL1111	4	0
WL1148	1,2	0
WL1164	1,2	0
WL1165	4	0
WL1176	1	½
WL1205	1,2	0
WL1206	1,2	0
WL1214	1	0
WL1243	1,2	0
WL1252	4	0
WL1359	1,2	¼
WL1380	2	0
WL1389	1	0
WL1392	1,2	0
WL1406	2	0
WL1408	1,2	0, ¼
WL1410	1,2	0
WL2051	1	0,3/4
WL2052	1	0
WL2053	2	1 1/4, 2
WL2055	2	2
WL2075	1,2	0,2
WL2098	1,2	1,2
WL2124	1	0
WL2127	1,2	0,1
WL2128	1,2	0
WL2165	2	2
WL2184	4	0
WL2186	1,2	1/2,1
WL2196	1	1/2
WL2197	1	½
WL2244	1,2	¾,1 ¾
WL2217	2	0
WL2236	1,2	1,1-1/4
WL2244	1,2	1,2

System No.	Fire Protection Ratings (HR)	
	F	T
WL2245	4	2,4
WL2251	1,2	0
WL2330	1,2	0
WL2377	1,2	1,2
WL2444	3,4	3,4
WL2445	1,2	1, 1 ¾, 2
WL2466	1,2	0,1
WL2467	1,2	0,1
WL2472	2	2
WL2474	1,2	0
WL3045	1	1/2
WL3046	1	1/2
WL3047	2	3/4
WL3048	2	1 1/2
WL3049	2	3/4
WL3058	2	1 1/2
WL3059	2	1 1/2
WL3065	1,2	0
WL3071	1,2	1/4,3/4
WL3079	1,2	0
WL3112	1,2	0
WL3122	1,2	0
WL3139	4	1
WL3161	1,2	0
WL3185	1,2	0,1/2
WL3220	1	¼
WL3278	2	¼
WL3307	2	0
WL3310	1,2	0
WL3320	1,2	0
WL4006	1	½
WL4011	1,2	0
WL4019	1,2	0
WL4038	1,2	0
WL4060	1,2	1/2
WL5016	1	1/2
WL5021	1	1/2
WL5022	1	3/4
WL5024	2	1
WL5025	1,2	3/4,1 3/4
WL5026	2	3/4
WL5027	2	1/2
WL5028	1,2	1/2,3/4
WL5029	1,2	1/2,3/4,1,1 3/4
WL5046	1,2	0,1
WL5047	1,2	0
WL5073	4	1 1/2
WL5096	1,2	1/2,1
WL5143	1,2	1/2
WL5144	1	1
WL5195	1	0

System No.	Fire Protection Ratings (HR)	
	F	T
WL5223	1,2	0
WL5240	2	½, ¼
WL5247	1,2	0, 1 ½
WL5257	1,2	0,1
WL5259	2	0
WL5260	2	0
WL6017	1,2	1,1-1/2
WL6019	1,2	1/4
WL7003	1	0
WL7017	1	0
WL7018	2	1 1/2
WL7040	1,2	0,1
WL7042	1,2	0
WL7059	1,2	1/2,3/4
WL7068	1,2	0
WL7069	1,2	0
WL7096	1	0
WL7124	1,2	1,2
WL7130	1,2	0
WL7151	1,2	¼
WL7153	1,2	0
WL7154	1,2	0
WL7155	1,2	0
WL7156	1,2	0
WL8004	2	¼
WL8013	1,2	0
WL8014	4	0
WL8015	4	0
WL8023	2	0
WL8035	1,2	1,1-1/2,2
WL8047	2	¼
WL8065	1,2	0
WL8071	1,2	½
BWS0001	1,2	1,2
BWS0002	1,2	1,2
HWD0060	1,2,3	1,2,3
HWD0061	1,2,3	1,2,3
HWD0118	1,2	1,2
HWD0119	1,2	1,2
HWD0120	2,3	2,3
HWD1011	1,2,3	1,2,3
HWD1012	1,2,3	1,2,3
HWD1020	1,2	1,2
HWS0036	1,2	1,2
HWS0037	1,2	1,2
HWS0038	2	2
HWS0039	1,2	1,2

Terms and Conditions: The above-described fill, void or cavity material, used to fill the remaining voids in wall assemblies with the above-described fire protection rating is accepted with the following conditions:

1. Electrical trays, cables, mechanical piping or ductwork passing through the assembly, be installed in accordance with the manufacturer's application instruction.
2. Suitable support angles and fasteners are required for respective assemblies shall be provided in accordance with manufacturer's recommendations.
3. All shipments and deliveries of such materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and accepted for use, as provided for in Section 27-131 of the New York City Building Code.

Note: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance October 24, 2004

Examined By Spin Derbhadan