SCHEDULES OF HILTI THROUGH PENETRATION FIRESTOP SYSTEMS

CONCRETE FLOORS			CONCRETE OR BLOCK WALLS			WOOD FLOORS			GYPSUM WALLBOARD ASSEMBLIES		
TYPE OF PENETRANT	F-RATING (HR)	UL-CLASSIFIED SYSTEM	TYPE OF PENETRANT	F-RATING (HR)	UL-CLASSIFIED SYSTEM	TYPE OF PENETRANT	F-RATING (HR)	UL-CLASSIFIED SYSTEM	TYPE OF PENETRANT	F-RATING (HR)	UL-CLASSIFIED SYSTEM
CIRCULAR BLANK OPENINGS	1	F-A-0006, C-AJ-0055, C-AJ-0070	CIRCULAR BLANK OPENINGS	1	C-AJ-0055, C-AJ-0070	METAL PIPES OR CONDUIT	1	F-C-1009, F-C-1059	METAL PIPES OR CONDUIT	1	W-L-1054, W-L-1058, W-L-1164
	2	F-A-0006, C-AJ-0055, C-AJ-0070		2	C-AJ-0055, C-AJ-0070					2	W-L-1054, W-L-1058, W-L-1164
	3	F-A-0006, C-AJ-0055		3	C-AJ-0055		2	F-C-1009, F-C-1059		4	W-L-1110, W-L-1111
SINGLE METAL PIPES OR CONDUIT	1	C-AJ-1226, F-A1017	SINGLE METAL PIPES OR CONDUIT	1	C-AJ-1226, W-J-1021	NON-METALLIC PIPE OR CONDUIT	1	F-C-2025, F-C-2030, F-C-2160	NON-METALLIC PIPE OR CONDUIT	1	W-L-2078, W-L-2075, W-L-2128
	2	C-AJ-1226, F-A1017		2	C-AJ-1226, W-J-1021					2	W-L-2078, W-L-2075, W-L-2128
	3	C-AJ-1226, F-A1017		3	C-AJ-1226, C-AJ-1041, W-J-1042		2	F-C-2025, F-C-2029, F-C-2128		4	W-L-2184
	4	C-BJ-1037, C-BJ-1034		4	C-BJ-1034, C-BJ-1037 W-J-1041, W-J-1042						
SINGLE NON-METALLIC PIPE OR COUNDUIT (I.E. PVC, CPVC, ABS, FRP, ENT)	1	F-A-2053, F-A-2025, C-AJ-2109 C-AJ-2098, C-AJ-2141, C-AJ-2167 C-BJ-2021	SINGLE NON-METALLIC PIPE OR COUNDUIT (I.E. PVC, CPVC, ABS, FRP, ENT)	1	C-AJ-2109, C-AJ-2098, C-AJ-2167	SINGLE OR BUNDLED CABLES	1	F-C-3012, F-C-3044	SINGLE OR BUNDLED CABLES	1	W-L-3065, W-L-3111, W-L-3112
	2	F-A-2053, F-A-2025, C-AJ-2109 C-AJ-2098, C-AJ-2141, C-AJ-2167 C-BJ-2021		2	C-AJ-2109, C-AJ-2098, C-AJ-2167					2	W-L-3065, W-L-3111, W-L-3112
				3	C-AJ-2109, C-AJ-2098		2	F-C-3012		4	W-L-3139
	3	C-AJ-2109, C-AJ-2098		4	W-J-2057						
SINGLE OR BUNDLED CABLES	1	F-A-3007, C-AJ-3095, C-AJ-3096	SINGLE OR BUNDLED CABLES	1	C-AJ-3036, C-AJ-3095, C-AJ-3096	INSULATED PIPES	1	F-C-5004, F-C-3036, F-C-3037	CABLE TRAY	1	W-L-4011, W-L-4019
	2	F-A-3007, C-AJ-3095, C-AJ-3096		2	C-AJ-3036, C-AJ-3095, C-AJ-3096					2	W-L-4011, W-L-4019
	3	F-A-3007, C-AJ-3095, C-AJ-3096		3	C-AJ-3095, C-AJ-3096					3	W-L-8014
				4	W-J-3050		2	F-C-5004, F-C-3036, F-C-3037	INSULATED PIPES	1	W-L-5028, W-L-5029, W-L-5047
CABLE TRAY	1	C-AJ-4034, C-AJ-4035	CABLE TRAY	1	W-J-4016, C-AJ-4034, C-AJ-4035					2	W-L-5028, W-L-5029, W-L-5047
	2	C-AJ-4034, C-AJ-4035		2	W-J-4016, C-AJ-4034, C-AJ-4035					3	W-L-5073
	3	C-AJ-4034, C-AJ-4035		3	C-AJ-4034, C-AJ-4035	NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	F-C-7013	NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	W-L-7017, W-L-7040, W-L-7042
				4	W-J-8007					2	W-L-7040, W-L-7042
SINGLE INSULATED PIPES	1	F-A-5015, F-A-5016, C-AJ-5090, C-AJ-5091, C-AJ-5098	SINGLE INSULATED PIPES	1	C-AJ-5090, C-AJ-5091, C-AJ-5061	MIXED PENETRANTS	1	F-C-8009, F-C-8014	MIXED PENETRANTS	1	W-L-1095, W-L-8013
	2	F-A-5015, F-A-5016, C-AJ-5090, C-AJ-5091, C-AJ-5098		2	C-AJ-5090, C-AJ-5091, C-AJ-5061					2	W-L-1095, W-L-8013
	3	F-A-5016, C-AJ-5090		3	C-AJ-5090, C-AJ-5061					4	W-L-8014
	4	C-BJ-5006		4	C-BJ-5006, W-J-5028						
ELECTRICAL BUSWAY	1	C-AJ-6006, C-AJ-6017	ELECTRICAL BUSWAY	1	C-AJ-6006, C-AJ-6017						
	2	C-AJ-6006, C-AJ-6017		2	C-AJ-6006, C-AJ-6017						
	3	C-AJ-6006, C-AJ-6017		3	C-AJ-6006, C-AJ-6017						
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	C-AJ-7046, C-AJ-7051	NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022						
	2	C-AJ-7046, C-AJ-7051		2	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022						
	3	C-AJ-7046, C-AJ-7051		3	C-AJ-7046, C-AJ-7051						
MIXED PENETRANTS	1	C-AJ-8041, C-AJ-8056	MIXED PENETRANTS	1	C-AJ-8041, C-AJ-8056, W-J-8007						
	2	C-AJ-8041, C-AJ-8056		2	C-AJ-8041, C-AJ-8056, W-J-8007						
	3	C-AJ-8041, C-AJ-8056		3	C-AJ-8041, C-AJ-8056, W-J-8007						
	4	C-BJ-8010		4	C-BJ-8010, W-J-8007						

NOTES:

1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT HILTI FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGEMENT DRAWINGS - 800-879-8000.
3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.
4. COORDINATE WORK WITH OTHER TRADES TO ASSURE THE PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE VERSA.
5. FOR 3-HOUR RATED GYPSUM WALLS, CONTACT HILTI FOR A UL-CLASSIFIED SYSTEM OR ENGINEER JUDGEMENT DRAWING - 800-879-8000.

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NOT FOR CONSTRUCTION

Design Development

PROJECT: 217035
DATE: 6-28-2017
REVISIONS: DATE

DRAWN BY: Author
CHECKED BY: Checker

DETAILS

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