



HILTI FIRESTOP SELECTION CHART — CANADA ONLY

CLICK
CATEGORY
INFO BELOW:

Concrete Floors/
Walls or Block
Walls

Concrete
Floor/Ceiling
Assemblies

Gypsum Wall
Assemblies

Wood Floor/
Ceiling
Assemblies

Joints



CONCRETE FLOORS/WALLS OR BLOCK WALLS

Hilti Firestop Selection Chart – Canada only

CLICK CATEGORY INFO BELOW:

Concrete Floors/Walls or Block Walls

Concrete Floor/Ceiling Assemblies

Gypsum Wall Assemblies

Wood Floor/Ceiling Assemblies

Joints

Penetrant	F-Rating	FT-Rating	L or W-Rating	Product	System Number	50 Pa
CONCRETE FLOORS/WALLS OR BLOCK WALLS						
Max. 6" dia blank opening (sleeve optional) (bottom side access)	3 Hr	1-1/2 Hr		FS-ONE MAX	C-AJ-0004	
Max. 2" steel, cast iron, copper, steel conduit, EMT (bottom side access)	2 Hr	0 Hr		FS-ONE-MAX CP 606 CFS-S SIL GG CFS-S SIL SL	C-AJ-1010	
Max. 4" steel, cast iron, copper, steel conduit, EMT in optional steel sleeve	2 & 3 Hr	0 Hr		FS-ONE MAX CFS-S SIL GG CFS-S SIL SL	C-A-J 1011	
Max. 30" steel, cast iron; 6" copper, steel conduit, or 4" EMT in optional steel sleeve	3 Hr	0 Hr		CFS-S SIL GG CFS-S SIL SL	C-A-J-1012	
Max. 8" steel, cast iron; 6" steel conduit, 4" copper or EMT (sleeve optional) (bottom side access) (includes hollow core)	2 Hr	0 Hr		FS-ONE MAX	C-A-J-1016	
Max. 30" steel, cast iron, 6" copper, steel conduit or 4" EMT (sleeve optional)	2 Hr	0 Hr		CP 606	C-AJ-1022	
Max. 30" steel, cast iron, 6" copper, steel conduit, or 4" EMT (sleeve optional)	2 Hr	0 Hr		FS-ONE MAX	C-AJ -1023	
Max. 8" steel, cast iron, 6" copper, steel conduit, or 4" EMT (sleeve optional)	2 Hr	0 Hr		FS-ONE MAX CP 606	C-AJ-1612	
Max. 4" steel, cast iron, copper, steel conduit or EMT (sleeve optional)	2 Hr	0 Hr		CP 660	C-AJ-1661	
Max. 4" steel conduit or EMT	2 Hr	0 Hr		CP 660	C-AJ-1662	
Max. 12" steel, cast iron, 6" steel conduit, 4" copper or EMT	2 Hr	0 Hr		CP 660	C-AJ-1663	
Max. 6" PVC (Sch 40) (c, v), ABS (sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), Aquarise CPVC (SDR 11) (c), Max. 4" FRPP (Sch. 40) (c, v), Max. 4" (Sch. 40) RNC; (includes hollow core) (AS = Varies) (optional pipe coupling on max. 4" PVC/ABS pipe only)	2 or 3 Hr	0, 2 and 3 Hr		CP 648E (1" and 1-3/4")/ RC	C-AJ-2021	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), RNC (Sch. 40) (c, v) or Aquarise CPVC (SDR 11) (c) (2-1/2" concrete floor) (AS = Varies)	2 Hr	0 Hr		CP 648E (1-3/4")	C-AJ-2022	■
Max. 2" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c), or Aquarise CPVC (SDR 11) (c) (2-1/2" concrete floor) (AS = Nom. 5/16")	2 Hr	0 Hr		CP 648E (1") or CP648S	C-AJ-2023	■
Max. 2" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c), or Aquarise CPVC (SDR 11) (c) (knock-out sleeve) (AS = Nom. 9/16")	3 Hr	0 Hr		CP 648E (1-3/4")	C-AJ-2024	■
Max. 6" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), XFR-PVC (Sch. 40) (c, v), Aquarise CPVC (SDR 11) (c); Max. 4" RNC (Sch. 40) (includes hollow core) (AS Varies)	2 or 3 Hr	1 or 2 Hr	L	CP 643N	C-AJ-2035	■
Max. 4" ABS (Sch. 40) (c, v), PVC (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), RNC (Sch. 40) or Aquarise CPVC Plastic Pipe (SDR 11) (c) (2-1/2" concrete floor) (AS = Varies)	2 Hr	0 Hr		CP 648S	C-AJ-2036	■
Max. 2" Blazemaster CPVC plastic pipe (SDR 13.5) (c); Optional steel sleeve (AS = 0" to 5/8")	1 or 2 Hr	0 Hr		FS-ONE MAX	C-AJ-2042	
Nom. 2", 3" or 4" PVDF plastic pipe (Sch. 40) (c, v) (AS = Varies)	2 or 3 Hr	1/4 Hr		CP 648E	C-AJ-2049	■
Max. 6" PVC (Sch. 40) (c, v), XFR-PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 13.5) (c); (optional sleeve) (oversized opening) (AS = 1/4" to 1-1/4")	3 Hr	0 or 2 Hr	L, W	CP 643N	C-AJ-2053	■



	Penetrant	F-Rating	FT-Rating	L or W-Rating	Product	System Number	50 Pa
CONCRETE FLOORS/WALLS OR BLOCK WALLS (CONTINUED)							
NEW	Max. 2" PP, Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11), PVC (c, v) (AS 0" to 1/2")	2 or 3 Hr	1-1/4, 2, 2-3/4, or 3 Hr		CP 648E w/ Ret Collar	C-AJ-2054	■
NEW	Max. 2" PP, CPVC, Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11) with 1" thick AB/PVC insulation (AS = 0" to 5/8")	2 Hr	0 Hr		CP 648E w/ Ret Collar	C-AJ-2055	■
	Max. 2" PP plastic pipe (Sch 80) (c, v) (as=3/16" to 7/16")	2 Hr	1/4 Hr		CP 648S	C-AJ-2056	■
	Max. 2" Fusiotherm PP (SDR 7.4 with Faser) (c, v) and Climatherm PP (SDR 11 with Faser) (c, v); (AS = 0" to 5/16")	2 Hr	2 Hr		CP 643N	C-AJ-2070	■
	Max. 2" Fusiotherm PP (SDR 7.4 with Faser) (c, v) and Climatherm PP (SDR 11 with Faser) (c, v); (AS = 0" to 5/16")	2 Hr	2 Hr		CP 648E w/ Ret Collar	C-AJ-2071	■
	Max. 1" PEX (SDR 9) (c, v) (includes hollow core) (as= 0" to 1")	2 Hr	0 hr		FS-ONE MAX	C-AJ-2072	■
	Max. 2" PVC (Sch. 40) (c, v) or CPVC (c, v) (AS = Nom. 13/16")	2 Hr	0 Hr		FS-ONE MAX	C-AJ-2078	■
	Max. 6" PVC (Sch. 40) (c, v) or CPVC (c, v) (AS = 1/2" to 7/8")	1 Hr	0 Hr		CP 648E	C-AJ-2080	■
	Max. 2" PEX (SDR 9) (c, v) (2-1/2" concrete) (AS=3/16" to 5/16")	2 Hr	0 Hr	L	CP 648E	C-AJ-2667	■
	Max. 4" PEX (SDR 9) Uponor Aquapex or Wirsbo Hepex, 1/2" glass fiber (insulation removed through firestop) (c, v) (AS=0" to 7/8")	2 Hr	0 or 2 Hr		CP 648E w/ Ret Collar	C-AJ-2674	■
NEW	Max. 2" Aquatherm Greenpipe PP-R (SDR 7.4), Bluepipe PP-RCT (SDR 9), Niron PP-RCT (by Nupi Americas (SDR 7.3), Aquatechnik PP-RCT (SDR 7.4) and Uponor PP (SDR 9), (AS=5/16")	2 Hr	1/2 Hr		CP 648E	C-AJ-2677	■
	Max. 4" XFR-PVC (Sch. 40) solid core (c, v) or HRS-2550 PVC (Sch. 40) (c, v) (AS=0" to 1/2")	2 Hr	2 Hr	L	CP 648E w/ Ret Collar	C-AJ-2678	■
	Max. 3" XFR-PVC (Sch. 40) (c, v) (AS varies)	2 or 3 Hr	0 Hr		CP 648E	C-AJ-2684	■
NEW	Max. 3" Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11), CPVC. (AS 0" to 1/2")	2 Hr	0 or 2 Hr		CP 648E and FS-ONE MAX	C-AJ-2830	■
NEW	Max. 6" Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11), PVC. Optional Steel Sleeve (AS 0" to 3/4") See system for AS requirements	3 Hr	0, 2-1/2, or 3 Hr	L	CP 648E and FS-ONE MAX	C-AJ-2831	■
NEW	Max 18" PVC, XFR PVC, CPVC, Corazan CPVC (AS 1/4" to 1-1/2")	3 Hr	0, 1, 1-1/2, 2-3/4 Hr	L	CP 648E and FS-ONE MAX	C-AJ-2836	■
NEW	Max. 2" PVC (c, v), Max. 2" CPVC (c), (Max. 2" XFR (c, v), Max. 2" PVC-HR Napsys (c, v) (AS 0" to 1-1/4")	2 Hr	0 Hr		FS-ONE MAX	C-AJ-2900	■
NEW	Max. 2" PP, CPVC, Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11) with 1-1/2" thick Glass Fiber Insulation (AS = 0" to 5/8")	2 Hr	2 Hr		CP 648E and FS-ONE MAX	C-AJ-2924	■
	Max. 2" Metal Clad TEK Cable (one or more)	2 Hr	0 Hr		FSONE MAX CFS-S SIL GG CFS-S SIL SL	C-AJ-3007	■
	Steel or aluminum cable tray (24" x 6") (AS=0" to 5")	2 Hr	0 Hr		CP 660	C-AJ-4106	■
	Electrical busway (23" x 4-1/2") (AS=1/4" to 5-3/4")	2 Hr	1/4 Hr		CP 660	C-AJ-6048	■

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Penetrant	F-Rating	FT-Rating	L or W-Rating	Product	System Number	50 Pa
CONCRETE FLOORS/WALLS OR BLOCK WALLS (CONTINUED)						
Multiple penetrants through 32" x 32" opening	2 Hr	0, 1/4, 1/2, or 1 Hr		CFS-SP WB	C-AJ-8014	
Multiple penetrants through 30" x 20" opening	2 Hr	0, 1/2, or 2 Hr		CP 660	C-AJ-8248	
Multiple penetrants through 24" x 8" opening	2 Hr	0 Hr		CP 660	C-AJ-8249	
Max. 8" steel, or cast iron with max. 2" mineral fiber pipe insulation (AS=0" to 1-3/8")	2 Hr	2 Hr		CP 660	C-BJ-1069	
Max. 10" dia blank opening (2-1/2" concrete floor)	2 Hr	1 Hr		CFS-S SIL GG CFS-S SIL SL	F-A-0001	
Max. 1-1/2" Brass waste over flow fittings with PVC drain	2 hr	0 Hr		CP 681	F-A-1002	■
Max. 1-1/2" Brass waste over flow fittings with PVC drain	2 hr	0 Hr		CP 681	F-A-1003	■
Max. 6" steel, copper, cast iron, steel conduit, and 4" EMT (2-1/2" concrete floor)	2 Hr	0 Hr		CFS-S SIL GG CFS-S SIL SL	F-A-1004	
Max. 24" steel, cast iron; max. 6" copper, steel conduit; or max. 4" EMT (2-1/2" concrete floor)	2 Hr	0 Hr		CFS-S SIL GG CFS-S SIL SL	F-A-1005	
Max. 1-1/2" PVC (Sch. 40) with waste over flow fittings	2 Hr	0 Hr		CP 681	F-A-2005	■
Max. 1-1/2" PVC (Sch. 40) with waste over flow fittings	2 Hr	0 Hr		CP 681	F-A-2006	■
Max. 2" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c), PEX (SDR 9) (c, v), or Aquarise CPVC (SDR 11) (c) (Includes Hollow Core) (AS = 1/16" to 9/16")	2 Hr	2 Hr		CP 648E (1-3/4"), FS-ONE MAX	F-A-2009	■
Max. 6" PVC (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 11, 13.5 or 17) (c), System 15 PVC by IpeX (Sch. 40) (c, v) or Aquarise CPVC (SDR 11) (c); max. 4" ABS (Sch. 40) (c, v) (2-1/2", 4-1/2" or 6" concrete floor)	1, 2, or 3 Hr	0, 1/4, 3/4, or 2 Hr	L	CP 680-P CP 680-PX	F-A- 2012	■
Max. 2" PEX Plastic Pipe (SDR 9) (c, v) (2-1/2" or 4-1/2" concrete floor)	2 or 3 Hr	1 or 2 Hr		CP 680-P 2" CP 680-PX 2"	F-A-2013	■
Max. 6" PVC (SCH. 40) (c, v), CPVC (SDR 11 or 13.5) (c), ABS (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), XFR-PVC (Sch. 40) (c, v) or Aquarise CPVC (SDR 11) (c); max. 4" RNC (Sch. 40) (2-1/2" concrete over metal deck) (AS = 0" to 1-1/2")	2 Hr	2 Hr	L	CP 643N	F-A-2025	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 11 or 13.5), FRPP (Sch. 40) (c, v), RNC (Sch. 40), Aquarise CPVC (SDR 11) (c) or max. 2" PP (Sch. 80) (c, v) (AS = Varies)	2 Hr	1/4, 1-3/4, or 2 Hr		CP 648E	F-A-2026	■
Max. 1-1/2" XFR-PVC (Sch. 40) (c, v) (bottom side access) (AS = 3/16" to 5-7/8")	2 Hr	0 Hr		CP 648E CFS-S SIL GG	F-A-2034	■
Max. 2" PVC (Sch. 40) with shower drain fitting	2 Hr	0 or 2 Hr	L, W	Firestop Drain Flange	F-A-2156	■
Max. 6" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 13.5) (c, v), FRPP (Sch. 40) (c, v) or Max. 4" Aquarise CPVC (SDR 11) (c) (optional sleeve) 2-1/2" to 8" concrete floor	2 or 3 Hr	0, 1/4, 1/2, 2 or 3 Hr	L, W	CFS-DID	F-A-2214	■
Max. 1-1/2" or 2" PVC (Sch. 40) with waste/ overflow fittings	2 Hr	3/4 or 2 Hr		CP 681 with CP 680-P 3" or CP 680-PX 3"	F-A-2219	■
Max. 6" XFR-PVC (Sch. 40) (c, v)	2 Hr	1/4 or 2 Hr	L	CP 680-PX [2" or 3"], CP 680-P [4" or 6"]	F-A-2240	■
NEW Max. 4" PVC, CPVC (SDR 11, 13.5, or 17), Aquarise CPVC (SDR 11), ABS, IPEX 15 PVC, XFR-PVC, Max. 2" Pex (SDR 9)	2 or 3 Hr	0, 1/4, 3/4, 1 or 2 Hr	L	CFS-CID MD (P or PX)	F-A-2317	■
NEW PVC (Sch. 40) drain with Nom. 2" PVC drain piping	2 Hr	1/2 Hr		CFS-CID MD (P or PX)	F-A-2347	■
Cable bundle (various cables)	3 Hr	0 Hr		CP 680-M, CP 680-P or CP 680-PX w/ CP 617	F-A-3001	
Cable bundle (various cables) (2-1/2" concrete floor)	2 Hr	0 Hr		CFS-S SIL GG CFS-S SIL SL	F-A-3002	

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CONCRETE FLOORS/WALLS OR BLOCK WALLS (CONTINUED)						
4/C No 500 kcmil power cable (aluminum or copper conductor)	3 Hr	0 or 1/2 Hr		CP 680-M, CP 680-P, or CP 680-PX	F-A-3034	
Max. 6" steel or cast iron with 1-1/2" glass fiber (2-1/2" concrete floor)	2 Hr	3/4 Hr		CP 604 CFS-S SIL GG CFS-S SIL SL	F-A-5004	
Max. 4" steel, cast iron, or copper with 1" to 1-1/2" glass fiber (2-1/2" concrete floor)	2 Hr	1/2 and 3/4 Hr		CP 604 CFS-S SIL GG CFS-S SIL SL	F-A-5005	
NEW Nom. 6" or 8" Steel with Nom. 1" or 2" Glass Fiber Insulation, Nom. 6" or 8" Cast-Iron with Nom. 1" or 2" Glass Fiber Insulation, Nom. 6" or 8" Ductile Iron with Nom. 1" or 2" Glass Fiber Insulation	2 Hr	1 or 1-3/4 Hr		CFS-CID MD 8", 10"	F-A-5077	
Insulated or non-insulated metallic pipes, conduits and cables (single or bundled) in max. 30" x 48" opening	2 Hr	0 Hr		CP 604 CFS-S SIL GG CFS-S SIL SL	F-A-8002	
Max. 4" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c), ABS (Sch. 40) (c, v), or RNC (Sch. 40) (hollow core) (AS = Varies)	2 Hr	0 Hr		CP 648S	F-B -2008	■
Max. 4" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c) transitioning to steel/cast iron	2 Hr	2 Hr	L	CP 680-P or CP 680-PX	F-B-2009	■
Max 2" PEX (SDR 9) (c, v) bundle (max qty 4)	2 Hr	0 Hr		CP 680-P or CP 680-PX w/ mineral wool or CF 810	F-B-2010	■
Maximum 2" Fusiotherm PP (SDR 7.4 with Faser or SDR 11) (c, v) by Aquatherm or max. 2" PEX (SDR 9) (c, v) (max qty = 2)	2 Hr	0 Hr		CP 680-P or CP 680-PX w/ mineral wool	F-B-2011	■
Max. 6" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 13.5) (c, v), Max. 4" FRPP, XFR-PVC (Sch. 40) (c, v) or Max. 4" Aquarise CPVC (SDR 11) (c) (6" to 12" concrete floor)	3 Hr	0 and 1/2 Hr	L, W	CFS-DID	F-B-2049	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 13.5) (c, v), XFR-PVC (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), Aquarise CPVC (SDR 11) (c) (6" to 12-1/2" hollow core floor)	3 Hr	0 and 1/2 Hr	L, W	CFS-DID	F-B-2051	■
Nom. 8" or 10" XFR (Sch. 40) (c, v) (6" concrete floor)	2 Hr	1-1/2 or 2 Hr	L, W	CFS-CID P 8" CFS-CID P 10"	F-B-2062	■
NEW Max. 1-1/2" PP (SDR 7.4 or 11), Aquatherm Greenpipe PP-R (SDR 7.4 or 11), Bluepipe PP-RCT (SDR 9 or 11) Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11), Aquatechnik PP-RCT (SDR 7.4 or 11) and Uponor PP-RCT (SDR 9 or 11) (c, v)	2 Hr	2 Hr		CP 680-P CP 680-PX	F-B-2075	■
Max. 30" x 15" blank opening	1 or 2 Hr	1 or 2 Hr		CP 660	W-J-0024	
Multiple max. 2" steel conduit or EMT (AS varies)	1 or 2 Hr	1 or 2 Hr		CP 660	W-J-1259	
Max. 4" steel, cast iron, copper, steel conduit or EMT (AS=0" to 7-7/8")	1 or 2 Hr	0 Hr		CP 660	W-J-1260	
Max. 1-1/2" PVC (Sch. 40) (c, v) or 1" PEX (SDR 9) (c, v) (AS = 3/16" to 5/16")	1 Hr	3/4 and 1 Hr		CP 648E (1")	W-J-2011	■
Max. 2" PVC (Sch. 40) (c, v) (AS = 1/4" to 1/2")	2 Hr	1 Hr		CP 648E (1" or 1-3/4")	W-J-2012	■
Max. 12" PVC (Sch. 40) (c, v) or CPVC (SDR 13.5) (c) (AS = 0" to 3/4")	1 or 2 Hr	0 Hr		CP 648E (1-3/4")	W-J-2019	■
Max. 1" PEX (SDR 9) (AS = 0" to 3/8")	2 Hr	0 Hr		FS-ONE MAX	W-J-2030	■
Max. 2" PEX (SDR 9) (AS = 1/4" to 7/8")	1 or 2 Hr	0 Hr		FS-ONE-MAX	W-J-2031	■
Max. 1" PEX (SDR 9) (AS = 1/4" to 1-3/8") (sleeve optional)	2 Hr	0 Hr		FS-ONE-MAX	W-J-2032	■
Max. 2" PP (Sch. 80) (c, v) with 1" thick AB/PVC, 1-1/2" thick glass fiber pipe insulation or 1-1/2" thick mineral fiber insulation (AS = 0" to 1/4")	2 Hr	2 Hr		CP 648E w/ ret collar	W-J-2245	■
Max. 2" PP (Sch. 80) (AS = 3/16" to 5/16")	2 Hr	1-1/2 Hr		CP 648S	W-J-2246	■

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CONCRETE FLOORS/WALLS OR BLOCK WALLS (CONTINUED)						
NEW Max. 2" PP (Sch. 80), Aquatherm Greenpipe (SDR 7.4 or 11), Aquatherm Bluepipe (SDR-9 or 11), Napsys PVC (SCH 40), (c, v) (AS = 0" to 5/8")	2 Hr	1-1/4 Hr		CP 643N	W-J-2247	■
Max. 3" PEX (SDR 9) Uponor Aquapex (c, v) (AS = 0" to 1/2")	2 Hr	0 Hr		CP 648E	W-J-2321	■
Max. 2" ENT (50 Pa) (AS = 0" to 1/2")	2 Hr	1-1/2 Hr		CP 643N	W-J-2331	■
Max. 2" ENT (50 Pa) (AS = 3/16" to 3/4")	2 Hr	1-3/4 Hr		CP 648E	W-J-2332a	■
Max. 2" Blazemaster® CPVC (SDR 13.5) (c) (AS=0" to 1/2")	2 Hr	0 Hr	L	FS-ONE MAX	W-J-2333	
Aluminum cable tray (24" x 4") (AS=0" to 5")	1 or 2 Hr	0 Hr		CP 660	W-J-4078	
Max. 48" x 24" sheet metal duct with 1-1/2" glass fiber (no angles)	2 Hr	1/4 Hr		FS-ONE MAX	W-J-7001	
Multiple Penetrants through 24" x 30" opening	2 Hr	T, 1/2 or 1 Hr		CFS-SP WB	W-J-8005	
Insulated or non-insulated steel, cast iron, copper, conduit or EMT pipes, flexible metal conduit or cables (AS varies)	1 or 2 Hr	0, 1/2, 1 or 2 Hr		CP 660	W-J-8055	

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Penetrant	F-Rating	FT-Rating	L or W-Rating	Product	System Number	50 Pa
CONCRETE FLOOR/CEILING ASSEMBLIES						
Max. 1" PEX (SDR 9) (c, v) or Aquarise CPVC (SDR 11) (c) (AS = 1/4" to 1/2")	1 Hr	1/4 Hr		CP 648E (1")	F-E-2005	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), Aquarise CPVC (SDR 11) (c) or XFR-PVC (Sch. 40) (c, v) (AS = 0" to 1/2")	1 Hr	1 Hr		CP 643N	F-E-2006	■
NEW Max. 2" Aquatherm Greenpipe PP-R (SDR 7.4) (c, v), Niron PP-RCT (SDR 7.3) (c, v), XFR-PVC (Sch. 40) (c, v), Aquatechnik PP-RCT (SDR 7.4) (c, v) (AS = 0" to 1")	1 Hr	1/4, 3/4 or 1 Hr		FS-ONE MAX	F-E-2062	■

Concrete
Floor/Ceiling
Assemblies

Gypsum Wall
Assemblies

Wood Floor/
Ceiling
Assemblies

Joints



GYPSUM WALL ASSEMBLIES

Hilti Firestop Selection Chart — Canada only

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Concrete Floors/
Walls or Block
Walls

Concrete
Floor/Ceiling
Assemblies

Gypsum Wall
Assemblies

Wood Floor/
Ceiling
Assemblies

Joints

Penetrant	F-Rating	FT-Rating	L-Rating	Product	System Number	50 Pa
GYPSUM WALL ASSEMBLIES						
Max. 2" PVC, ABS, or RNC (membrane)	1 Hr	1/2 Hr and 1 Hr		FS-ONE MAX	HI/PV 60-01 (12/16/14)	■
Max. 4" blank steel sleeve	1 or 2 Hr	0 and 1-1/2 Hr		CFS-PL or CP658T	W-L-0003	
Max. 2-5/8" diameter blank opening	1 or 2 Hr	1/4 or 1/2 Hr		FS-ONE MAX	W-L-0005	
Max. 30" x 15" blank opening	1 or 2 Hr	1 or 2 Hr		CP 660	W-L-0048	
Multiple max. 2" steel conduit or EMT	1 or 2 Hr	1/2 Hr		CP 660	W-L-1518	
Max. 4" steel, cast iron, copper, steel conduit or EMT	1 or 2 Hr	0 Hr		CP 660	W-L-1519	
Max. 4" ABS (Sch. 40) (c, v), PVC (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), FRPP (Sch. 40) (c, v) or Aquarise CPVC (SDR 11) (c) with optional pipe coupling (AS = 0" to 1/2")	1 or 2 Hr	3/4, 1, and 1-1/2 Hr		CP 648E (1" or 1-3/4")/ RC	W-L-2018	■
Max. 1-1/2" PVC (Sch. 40) (c, v) or 1" PEX (SDR 9) (c, v) (AS = 3/16" to 5/16")	1 Hr	3/4 & 1 Hr		CP 648E (1") or CP648S	W-L-2019	■
Max. 2" PVC (Sch. 40) (c, v) (AS = 1/4" to 1/2")	2 Hr	1 Hr		CP 648E (1" or 1-3/4")	W-L-2020	■
Max. 12" PVC (Sch. 40) (c, v) or CPVC (SDR 13.5) (c) (AS = 0" to 3/4")	1 or 2 Hr	1 or 2 Hr		CP 648E (1-3/4")	W-L-2027	■
Max. 6" PVC (Sch. 40) (c, v), ABS(Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c, v) or Aquarise CPVC (SDR 11) (c); max 4" RNC (Sch. 40) (AS = 0" to 1/2")	1 or 2 Hr	0 or 1 hr		CP 643N	W-L-2028	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), FRPP (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), RNC (Sch. 40), or Aquarise CPVC (SDR 11) (c) (AS = Varies)	1 Hr	0 Hr		CP 648S	W-L-2031	■
Nominal 6" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c) (AS = 9/16" to 13/16")	1 Hr	0 Hr		CP 648S	W-L-2032	■
Max. 2" PP (sch 80) (c, v) with 1" thick AB/PVC, 1-1/2" thick glass fiber pipe insulation or 1-1/2" thick mineral fiber insulation (AS = 0" to 1/4")	1 or 2 Hr	1 or 2 Hr		CP 648E w/ ret collar	W-L-2043	■
Max. 2" PP (sch 80) (c, v) (AS = 3/16" to 5/16")	1 or 2 Hr	1 or 1-1/2 Hr		CP 648S	W-L-2044	■
Max. 2" PP (Sch 80) (c, v), Aquatherm Greenpipe (SDR 7.4 or 11) (c, v), Aquatherm Greenpipe (SDR 9 or 11) (c, v), Napsiys PVC (Sch. 40) (c,v) (AS=0" to 5/8")	1 or 2 Hr	1 or 1-1/4 Hr		CP 643N	W-L-2045	■
Max. 1" PEX (SDR 9) (AS = 0" to 3/8")	1 or 2 Hr	0 Hour		FS-ONE MAX	W-L-2060	■
Max. 2" PEX (SDR 9) (AS = 1/4" to 7/8")	1 or 2 Hr	0 Hr		FS-ONE MAX	W-L-2061	■
Max. 1" PEX (SDR 9) (AS = 1/4" to 1-3/8") (sleeve optional)	1 or 2 Hr	0 Hr		FS-ONE MAX	W-L-2062	■
Max 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 13.5) (c) (at max 45° angle) (AS = 0" to 3/4")	1 or 2 Hr	0 Hr		CP 648E	W-L-2565	■
Max. 4" XFR-PVC (Sch. 40) (c, v) (AS = 0" to 1/2")	1 or 2 Hr	0 or 1 Hr		CP 643N	W-L-2578	■
Max. 3" PEX (SDR 9) Uponor Aquapex (c, v) (AS = 0" to 1/2")	1 or 2 Hr	0 Hr		CP 648E	W-L-2671	■
Max. 2" ENT (50 Pa) (AS=0" to 1/2")	1 or 2 Hr	0 or 1-1/2 Hr		CP 643N	W-L-2676	■
Max. 2" ENT (50 Pa) (AS=3/16" to 3/4")	1 or 2 Hr	1-3/4 Hr		CP 648E	W-L-2677	■

NEW



Penetrant	F-Rating	FT-Rating	L-Rating	Product	System Number	50 Pa
GYPSUM WALL ASSEMBLIES						
Max. 2" Blazemaster® CPVC (SDR 13.5) (c) (AS=0" to 1/2")	1 or 2 Hr	0 Hr	L	FS-ONE MAX	W-L-2678	
NEW Max. 4" Aquatherm Bluepipe PP-R (SDR 9, 11, or 17.6) (c, v), Aquatherm Greepipe, PP-R (SDR 7.4 or 11)(c, v), Aquatechnik (SDR 7.4 or 11) 9c, v), Nupi Niron PP-RCT (SDR 7.3, 9 or 11) (c, v), Uponor (SDR 9 or 11) (c, v), Napsys PVC (Sch. 40) (c, v) (AS varies)	1 or 2 Hr	0, 3/4, 1, 1-1/2, or 2 Hr		FS-ONE MAX CP 648E	W-L-2744	■
NEW Max. 4" PVC (Sch. 40) (c, v) or CPVC (Sch. 40) (c, v) (as = 0" to 1/2")	2 Hr	1 Hr		CP 643N	W-L-2766	■
NEW Max. 2" XFR-PVC with XFR-PVC Tee fitting (Sch. 40), 2" PVC with PVC Tee fitting (Sch. 40), 3/4" PEX (SDR 9) with brass or copper Tees. (AS 1/4" to 7/8")	1 Hr	1/2 Hr	L	FS-ONE MAX	W-L-2770	■
NEW Max. 2" XFR-PVC with XFR-PVC elbow (Sch. 40), PVC with PVC elbow (Sch. 40), 3/4" PEX (SDR 9) with brass or copper elbow (AS 1/4" to 7/8")	1 Hr	1/2 Hr	L	FS-ONE-MAX	W-L-2771	■
Aluminum cable tray (24" x 4") (AS=0" to 5")	1 or 2 Hr	0 Hr		CP 660	W-L-4087	
Max. 8" steel, cast iron, or 2" copper with 2" Glass Fiber (shaft wall)	1 or 2 Hr	0 or 2 Hr		FS-ONE MAX CP648E	W-L-5010	
Max. 1" copper with 3/4" AB/PVC (shaft wall)	1 or 2 Hr	1/4 Hr		FS-ONE MAX	W-L-5011	
Max. 48" x 24" sheet metal duct with 1-1/2" glass fiber (no angles)	2 Hr	1/4 Hr		FS-ONE MAX	W-L-7007	
Multiple HVAC line sets	1 or 2 Hr	0 Hr		FS-ONE MAX	W-L-8001	
Multiple Penetrants through 24" x 30" opening	2 Hour	0, 1/4, 1/2 or 1 Hr		CFS-SP WB	W-L-8010	
Insulated or non-insulated steel, cast iron, copper, conduit or EMT pipes, flexible metal conduit or cables (AS varies)	1 or 2 Hr	0, 1/2, 1, 1 1/2 or 2 Hr		CP 660	W-L-8104	
Max. 2" ABS or PVC (w/ hub) (membrane)	3/4 or 1 Hr	1/2 or 3/4 Hr		FS-ONE	HI/PV 60-01	■

Concrete Floors/
Walls or Block
Walls

Concrete
Floor/Ceiling
Assemblies

Gypsum Wall
Assemblies

Wood Floor/
Ceiling
Assemblies

Joints



WOOD FLOOR/ CEILING ASSEMBLIES

Hilti Firestop Selection Chart — Canada only

CLICK
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Concrete Floors/
Walls or Block
Walls

Penetrant	F- Rating	FT- Rating	L- Rating	Product	System Number	50 Pa
WOOD FLOOR/CEILING ASSEMBLIES						
Max. 1" PEX (SDR 9) (c, v) or Aquarise CPVC (SDR 11) (c) (AS = Nom. 1/4")	1 Hr	1/4 Hr		CP 648E (1")	F-C-2005	■
Max. 2" PVC (Sch. 40) (c, v), CPVC (SDR 13.5) (c), ABS (Sch. 40) (c, v), or Aquarise CPVC (SDR 11) (c) (AS = 0" to 1/4")	1 Hr	1 Hr		CP 648E (1" or 1-3/4")/RC	F-C-2006	■
Max. 4" PVC (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c), or Aquarise CPVC (SDR 11) (c) (AS = Varies)	1 Hr	3/4 and 1 Hr		CP 648E (1" or 1-3/4")/RC	F-C-2007	■
Max. 1-1/2" PVC (Sch. 40) or ABS (Sch. 40) bathtub fittings (AS = 0" to 1")	1 Hr	1 Hr		FS-ONE MAX CP606	F-C-2009	■
Max. 4" PVC (Sch. 40) or ABS (Sch. 40) closet flange (c, v) (AS = Nom. 1/4")	1 Hr	3/4 Hr		FS-ONE MAX CP606	F-C-2010	■
Max. 4" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), XFR (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c, v) or Aquarise CPVC (c) (AS = 0" to 1/2")	1 Hr	0 Hr		CP 643N	F-C-2011	■
Max. 1" PEX (SDR 9) (AS = 0" to 7/8")	1 Hr	0 Hr		FS-ONE MAX	F-C-2045	■
Max. 2" PVC (Sch. 40) (c, v), ABS (Sch. 40) (c, v), CPVC (SDR 11 or 13.5) (c, v), Aquarise CPVC (SDR 11) (c) or Max. 1-1/2" PEX (c) (AS=1/4" to 3/8")	1 Hr	0 Hr		FS-ONE MAX	F-C-2416	■
NEW Max. 2" Aquatherm Greenpipe PP-R (SDR 7.4) (c, v), Niron PP-RCT (by Nupi Americas (SDR 7.3) (c, v), Aquatechnik PP-RCT (SDR 7.4) (c, v), XFR-PVC (c, v) (AS 0" to 1")	1 Hr	1/4, 3/4, 1 Hr		FS-ONE MAX	F-C-2517	■
NEW Max. 4" Aquatherm Greenpipe PP-R (SDR 7.4 or 11) (c, v), Bluepipe PP-RCT (SDR 9 or 11) (c, v), Niron PP-RCT (by Nupi Americas (SDR 7.3, 9, or 11) (c, v), Aquatechnik PP-RCT (SDR 7.4 or 11) (c, v) or Uponor PP-RCT (SDR 9 or 11) (c, v) (AS 0" to 1-5/8")	1 Hr	1/2, 3/4, or 1 Hr		FS-ONE MAX, CP 648E/1-3/4" w/ Ret Collar	F-C-2850	■

Concrete
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Joints



Concrete Floors/
Walls or Block
Walls

Assembly	F- Rating	FT- Rating	L- Rating	Product	System Number
JOINTS					
Concrete floor to concrete floor (floor to floor)	2 Hr	1-3/4 Hr		CP 604 CFS-S SIL GG CFS-S SIL SL	FF-D-1001
Concrete floor to concrete or block wall (floor to wall)	2 Hr	1-3/4 Hr		CP 604 CFS-S SIL GG CFS-S SIL SL	FF-D-1001
Gypsum wall perpendicular to concrete over metal deck with max. 1-1/2" EMT/steel conduit through flutes	1 or 2 Hr	0 Hr		CFS-SP WB	HW-D-0003
Concrete or block wall perpendicular to concrete over metal deck with max. 1-1/2" EMT/steel conduit through flutes	2 Hr	0 Hr		CFS-SP WB	HW-D-0004
Concrete or block wall to concrete floor (top of wall)	2 Hr	0 Hour		CP 606 CP 601s CFS-S SIL GG	HW-D-1001
Concrete or block wall to concrete floor (top of wall)	2 Hr	0 Hour		CFS-SP WB	HW-D-1002
Concrete or block wall to concrete floor (top of wall) with max. 2" steel, cast iron, steel conduit, EMT penetrations	3 Hr	0 Hr		CP 606	HW-D-1003

Concrete
Floor/Ceiling
Assemblies

Gypsum Wall
Assemblies

Wood Floor/
Ceiling
Assemblies

JOINTS



CLICK
CATEGORY
INFO BELOW:

**Concrete Floors/
Walls or Block
Walls**

**Concrete
Floor/Ceiling
Assemblies**

**Gypsum Wall
Assemblies**

**Wood Floor/
Ceiling
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