



Mechanical Systems Easy Spec

Use of Piping as per 2012 BC Building Code

PRODUCT	Size Range	Standards	BCBC & GAS CODE Reference	Flame & Smoke Listing	Flame Spread 25 or Less	Smoke Development 50 or Less	Applications	DRAINAGE SYSTEM			VENTING SYSTEM		POTABLE WATER SYSTEM			
								Above-ground Inside Building	Under-ground Inside Building	Building Sewer	Above-ground	Under-ground	Above-ground		Under-ground	
													Cold	Hot	Under Building	Outside Building
System 15® DWV Pipe	1-1/2"-24"	CAN/CSA-B181.2,CAN/ULC S102.2-10	2.2.5.10 2.2.5.12	BTLC.R19959 - Plastic Materials	10-25	300-355	DWV,STORM & RAIN WATER LINES	p ⁽⁵⁾⁽⁶⁾	P	P	p ⁽⁵⁾⁽⁶⁾	P	N	N	N	N
System XFR® DWV Pipe	1-1/2"-12"	CAN/CSA-B181.2,CAN/ULC S102.2-10	2.2.5.10 2.2.5.12	Intertek Certification Directory	0	45	DWV,STORM & RAIN WATER LINES	p ⁽⁵⁾⁽⁶⁾	P	P	p ⁽⁵⁾⁽⁶⁾	P	N	N	N	N
ABS DWV Pipe	1-1/4"-6"	CAN/CSA-B181.1	2.2.5.10 2.2.5.12		165-230	500	DWV,STORM & RAIN WATER LINES	p ⁽⁵⁾⁽⁶⁾⁽¹²⁾	p ⁽¹²⁾	p ⁽¹²⁾	p ⁽⁵⁾⁽⁶⁾⁽¹²⁾	p ⁽¹²⁾	N	N	N	N
ABS DWV Cell Core Pipe	1-1/2"-6"	ASTM F 628	2.2.5.10		165-230	500	DWV,STORM & RAIN WATER LINES	p ⁽⁵⁾⁽⁶⁾⁽¹²⁾	p ⁽¹²⁾	p ⁽¹²⁾	p ⁽⁵⁾⁽⁶⁾⁽¹²⁾	p ⁽¹²⁾	N	N	N	N
AQUARISE® Pipe & Fittings	1/2"-4"	CAN/CSA-B137.6,NSF 61,CAN/ULC S102.2-10	2.2.5.9	BTLC.R19959 - Plastic Materials	0	25-30	D H&C WATER,HEATING & INDUSTRIAL LINES	N	N	N	N	N	p ⁽⁵⁾⁽⁶⁾⁽⁸⁾	p ⁽⁵⁾⁽⁶⁾⁽⁸⁾	p ⁽⁸⁾	p ⁽⁸⁾
CORZAN CPVC Pipe & Fittings	1/2"-16"	CAN/CSA-B137.6,NSF 61,CAN/ULC S102.2-10	2.2.5.9	BTLC.R19959 - Plastic Materials	0-10	25	D H&C WATER,HEATING & INDUSTRIAL LINES	N	N	N	N	N	p ⁽⁵⁾⁽⁶⁾⁽⁸⁾	p ⁽⁵⁾⁽⁶⁾⁽⁸⁾	p ⁽⁸⁾	p ⁽⁸⁾
PVC Building Sewer & Drain Pipe, PS>320 kPa	3"-6"	CAN/CSA-B182.1	2.2.5.10				BUILDING SEWER PIPE,SEPTIC FIELDS & DRAINAGE	N	P	P	N	N	N	N	N	N
Ring-Tite® Gasketed Sewer Pipe, SDR 28-35	4"-42"	CAN/CSA-B182.2	2.2.5.10				BUILDING SEWER PIPE,UNDERGROUND VENTILATION & DRAINAGE	N	P	P	N	P	N	N	N	N
Ultra-RibTM Pipe	8"-24"	CAN/CSA-B182.4	2.2.5.10(1)(f)				BUILDING SEWER PIPE,UNDERGROUND VENTILATION & DRAINAGE	N	P	P	N	P	N	N	N	N
Xirtec® 140 Sch 40 PVC Pressure Pipe & Fittings	1/2"-24"	CAN/CSA-B137.3,NSF 61,CAN/ULC S102.2-10	2.2.5.8(2)	BTLC.R19959 - Plastic Materials	10-25	300-355	POTABLE COLD WATER PRESSURE PIPE,PROCESS PIPE,POOLS,IRRIGATION	N/P ⁽¹¹⁾⁽⁹⁾ Ca)	N/P ⁽¹¹⁾⁽⁹⁾ Ca)	N ⁽¹¹⁾⁽⁹⁾ Ca)	N	N	p ⁽⁵⁾⁽⁶⁾⁽⁷⁾	N	p ⁽⁹⁾	p ⁽⁹⁾
Xirtec® 140 Sch 80 PVC Pressure Pipe & Fittings	1/2"-24"	CAN/CSA-B137.3,NSF 61,CAN/ULC S102.2-10	2.2.5.8(2)	BTLC.R19959 - Plastic Materials	10-25	300-355	POTABLE COLD WATER PRESSURE PIPE,PROCESS PIPE,POOLS,IRRIGATION	N/P ⁽¹¹⁾⁽⁹⁾	N/P ⁽¹¹⁾⁽⁹⁾	N ⁽¹¹⁾⁽⁹⁾	N	N	p ⁽⁵⁾⁽⁶⁾⁽⁷⁾	N	P	P
Polyethylene Series 160 With Compression Fittings	1/2"-2"	CAN/CSA-B137.1	2.2.5.5		80-150	450	COLD WATER SERVICE TUBING	N	N	N	N	N	N	N	p ⁽⁴⁾	p ⁽⁴⁾
Q-Line® Water Service Pipe PE/AL/PE	1/2"-1"	CAN/CSA-B137.9,NSF61	2.2.5.13				COLD WATER SERVICE TUBING	N	N	N	N	N	N	N	p ⁽⁴⁾	p ⁽⁴⁾
Blue 904® Water Service Tubing PEX/AL/PEX	1/2"-2"	CAN/CSA-B137.10,NSF61	2.2.5.14				COLD/HOT WATER SERVICE TUBING	N	N	N	N	N	N	N	p ⁽⁴⁾	p ⁽⁴⁾
System 636® PVC Venting	1-1/2"-4"	ULC S636	B149.1-10 Clause8.10.4	BTLC.R19959 - Plastic Materials	10-25	300-355	Category IV appliance Type BH vent or special venting system	N	N	N	p ⁽⁵⁾⁽⁶⁾	p ⁽⁵⁾⁽⁶⁾	N	N	N	N
System 636® CPVC Venting	1-1/2"-8"	ULC S636	B149.1-10 Clause8.10.4	BTLC.R19959 - Plastic Materials	0-10	25	Category IV appliance Type BH vent or special venting system	N	N	N	p ⁽⁵⁾⁽⁶⁾	p ⁽⁵⁾⁽⁶⁾	N	N	N	N
BlazeMaster® CPVC Pipe	1/2"-3"	NFPA 13,D.R,ULC1821,NSF61,FM	2.2.5.12(2)	VIWTC.EX3820 - P	5	5-15	Fire Sprinkler Systems & ULC Rated Potable Water	N	N	N	N	N	N	N	P	P
Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	1/2"-12"	CAN/CSA-B137.11,NSF 61,CAN/ULC S102.2-10	2.2.5.15		25	100-150 ⁽¹⁴⁾	D H&C WATER,HEATING & INDUSTRIAL LINES	N	N	N	N	N	p ⁽⁵⁾⁽⁶⁾⁽¹⁴⁾	p ⁽⁵⁾⁽⁶⁾⁽¹⁴⁾	p	P
PP for Distilled or Dialized Water for Labs Enpure®	1/2"-4"	ASTM D 4101	3.1.5.16(3)		80 ⁽¹³⁾	450 ⁽¹³⁾	D H&C WATER,HEATING & INDUSTRIAL LINES FOR LABORATORIES	N	N	N	N	N	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	p	P
FR Polypropylene Acid Waste Enfield®/Labline®	1-1/2"-12"	CAN/CSA-B181.3,CAN/ULC S102.2-10	2.2.8.1	BTLC.R19959 - Plastic Pipe and Tubing	80 ⁽¹³⁾	450 ⁽¹³⁾	Laboratory Drainage Systems	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	P	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	p ⁽⁵⁾⁽⁶⁾⁽¹³⁾	N	N	N	N
Plenumline Polypropylene Acid Waste	1-1/2"-4"	CAN/CSA-B181.3,CAN/ULC S102.2-10	2.2.8.1	BTLC.R19959 - Plastic Pipe and Tubing	10	10	Laboratory Drainage Systems	p ⁽⁵⁾⁽⁶⁾	P	p ⁽⁵⁾⁽⁶⁾	p ⁽⁵⁾⁽⁶⁾	p ⁽⁵⁾⁽⁶⁾	N	N	N	N
Crosslinked Polyethylene PEX Pressure Pipe	1/2"-3"	CAN/CSA-B137.5,NSF 61,CAN/ULC S102.2-10	2.2.5.7		5-25	20-50	D H&C & RECIRC WATER LINES	N	N	N	N	N	p ⁽⁵⁾⁽⁶⁾⁽¹⁴⁾	p ⁽⁵⁾⁽⁶⁾⁽¹⁴⁾	P	P
IPEX Ball Valves	1/2"-4"			ertified/PwsComponents/Listings.asp?												

Notes:

- (1) Where fire stops are pierced by pipes, the integrity of the fire stop must be maintained.
- (2) Cold water only.
- (3) Gasketed joints required.
- (4) Permitted only for water service pipe.
- (5) Combustible piping in noncombustible construction is subject to the requirements of Sentence 3.1.5.16.(1).
- (6) Combustible piping that penetrates a fire separation is subject to the requirements in Articles 3.1.9.1., 9.10.9.6. and 9.10.9.7.
- (7) Not permitted in hot water systems.
- (8) Not to exceed design temperature and design pressure stated in Sentence 2.2.5.9.(2).

- (9) Fittings not permitted for use Underground
- (10) Permitted underground only in a storm drainage system.
- (11) Permitted for Force Mains or Pump Discharge DWV Systems Per Appeal 1721 Marked Non Potable
 - (a) Pipe
 - (b) Fittings
- (12) Not permitted for use in Parkades (Chemical Compatibility)
- (13) Combustible piping in noncombustible construction is subject to the requirements of Sentence 3.1.5.16.(3).

Combustible Buildings Exceeding 600-M Over 3 Storeys			Non Combustible Buildings			
Air Plenum	Vertical Shaft	Low Rise Building	Air Plenum	Vertical Shaft	Low Rise Building	High Rise Building
N	N	p(5)(6)	N	N	p(5)(6)	N
p(5)(6)	N	p(5)(6)	p(5)(6)	N	p(5)(6)	p(5)(6)
N	N	N	N	N	N	N
N	N	N	N	N	N	N
p(5)(6)(8)	N	p(5)(6)(8)	p(5)(6)(8)	N	p(5)(6)(8)	p(5)(6)(8)
p(5)(6)(8)	N	p(5)(6)(8)	p(5)(6)(8)	N	p(5)(6)(8)	p(5)(6)(8)
N	N	N	N	N	N	N
N	N	N	N	N	N	N
N	N	N	N	N	N	N
N	N	p(5)(6)(7)	N	N	p(5)(6)(7)	N
N	N	p(5)(6)(7)	N	N	p(5)(6)(7)	N
N	N	N	N	N	N	N
N	N	N	N	N	N	N
N	N	N	N	N	N	N
N	N	p(5)(6)	N	N	p(5)(6)	N
p(5)(6)	N	p(5)(6)	p(5)(6)	N	p(5)(6)	p(5)(6)
p(5)(6)	N	p(5)(6)	p(5)(6)	N	p(5)(6)	p(5)(6)
p(5)(6)(14)	N	p(5)(6)(14)	p(5)(6)(14)	N	p(5)(6)(14)	p(5)(6)(14)
p(5)(6)(13)	N	p(5)(6)(13)	N	N	p(5)(6)(13)	p(5)(6)(13)
N	N	p(5)(6)(13)	N	N	p(5)(6)(13)	p(5)(6)(13)
N	N	p(5)(6)	p(5)(6)	N	p(5)(6)	p(5)(6)
p(5)(6)(14)	N	p(5)(6)(14)	p(5)(6)(14)	N	p(5)(6)(14)	p(5)(6)(14)

