



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
Backflow Preventers		Watts	009 (16mm to 50mm)
			909 (75mm to 200mm)
Backwater Valve		Bibby-Ste-Croix	69060
Corrosion Protection	Zinc Anodes: 5.4 Kg and 10.5 Kg ASTM B-418, Type 2		
	Magnesium Anodes: 14.5 Kg - B-107, ASTM 843, Type M1 OPSS 442		
	Protective coatings for metal fittings	Bren Technologies	Petro Coating Systems (PCS) (primer, mastic and tape)
		Denso North America	Denso Wrap (primer, mastic and tape)
		PetroWrap	PetroWrap (primer, mastic and tape)
		Trenton	No. 1 Wax Tape (primer, mastic and tape)
Polyethylene encasement for ductile iron watermain pipe and fittings			
ANSI/AWWA C105 A21.5 - 8 mil low density Poly- Tube with overlap			
Couplings	Water Service Couplings 19mm to 50mm AWWA C800, NSF 61(Annex G) compression fit copper to copper connections	Cambridge Brass	118NL
		Ford Meter Box Co.	C44-Q-NL
		Mueller	H-15403N
	Water Service Couplings 19mm to 50mm AWWA C800, NSF 61(Annex G) copper to lead or alloy connection	Ford Meter Box Co.	Q14-NL, Q24-NL, Q34-NL with internal stop



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Couplings Cont'd...	Watermain Pipe Couplings AWWA C219-06 epoxy coated with stainless steel straps, nuts and bolts	Ford	FC1 and FC2 100mm to 300mm DI and PVC
			FC2W-xx-SH 100mm to 400mm DI and PVC
		Robar Industries	1506 (4 or 5 bolt model) 100mm to 400mm DI and PVC
		Kausz Industries	Hymax Model No. 2000 100mm to 300mm DI and PVC
		Straub Tadco	Straub-Flex, non-restrained up to 1200mm (modified for Hamilton)
		Victaulic	Vic 31 400mm DI only
		Viking Johnson	MaxiFit (100mm to 1200mm)
Curb Stops	19mm to 50mm AWWA C800 NSF 61(Annex G) compression ends ball type, non-draining	Cambridge Brass	202NL
		Ford Meter Box Co.	B44-Q-NL
		Mueller	300 B-25209N
Fittings	Ductile Iron Up to 300mm Pressure Class 350, cement lined, AWWA C104, C110 / A21.10, C153/A2.53, OPSS 441, NSF 61	Bibby	
		Sigma	
		Star Pipe Products	
		Tyler/Union	DM, DFF and XM
	Ductile Iron 400mm and larger Class 52, cement lined restrained mechanical joint AWWA C104, C110 / A21.10, OPSS 441.05.02	Bibby	
		Sigma	
		Star Pipe Products	
		Tyler/Union	DM, DFF and XM
	PVC 100mm, 150mm and 200mm, injection molded AWWA C907, B137.3 OPSS 441	Ipex	Blue Brute
		Royal Building Products	Royal



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Fittings Cont'd...	PVC 250 mm to 750mm CSA B137.3 250 mm and 300 mm shall use AWWA C900 and C905 PVC pipe, bonded and over- wrapped with fiberglass- reinforced polyester	Ipex	Blue Brute, Big Brute
		Royal Building Products	Royal
Hydrants	3 way hydrants AWWA C502 CAN / ULC S-520 2-63.5 mm side ports, CSA standard thread, stainless steel nuts, bolts and studs 100mm "STORZ" pumper connection 25mm hydrant operating nut open left (counter clockwise) Extensions permitted at boot only	American AVK	Style 2780
		Clow Canada Ltd.	Brigadier Series M -67
		Mueller Canada Inc.	Darling B-50-B
Insulation	Extruded Polystyrene	Dow	Styrofoam Highload 100
		Owens Corning	Foamular 1000 (Pink)
Joint Restraint	Ductile Iron Pipe	Ebaa Iron	Mega-Lug Series 1100 Black epoxy coated wedges and nuts (100mm to 1200mm)
			Tru-Dual Series 1500TD (100mm to 300mm)
		Ford	Uni-Flange Series 1390 (100mm to 300mm)
		Smith-Blair	Cam-Lock Series 111 - epoxy coated wedges and nuts (100mm to 600 mm)
			Bell-Lock 115 and 165 (100mm to 300mm)
		Sigma	One-Lok - SLD (100mm to 600mm)
		Star	Stargrip Series 3000 and 3100 (100mm to 1200mm)
Tyler/Union	TUFGrip TLD (black)		



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<p>Joint Restraint Con'd...</p>	<p>Polyvinyl Chloride Pipe (PVC) AWWA C900 and C905 ASTM F1674</p>	Ebaa Iron	Tru-Dual Series 1500TD (100mm to 300mm)
		Ford	Uni-Flange Series 1390 (100mm to 300mm)
		Sigma	PV-Lok - SLC (100mm to 600mm)
		Star	Stargrip Series 4000 Top breakaway nut same size as the T-bolt (100mm to 750mm)
			Stargrip Series 4000G2 (100mm to 300mm)
			1000C - pipe to MJ or Push-On Fittings (100mm to 300mm); 1100C – Bell Joints (100mm to 300mm); 1200C – pipe to PVC Pressure Fittings with DI pipe OD (100mm to 300mm)
			1000G2C – pipe to MJ push-on fittings (100mm to 300mm); 1100G2C – Bell Joints (100mm to 300mm); 1200G2C – pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm).
		Smith Blair	9000C – pipe to MJ push-on fittings (100mm to 300mm); 9100C – Bell Joints (100mm to 300mm); 9200C – pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm).
			Bell-Lock 115 (100mm to 300mm)
		Tyler/Union	Cam-Lock Series 120 (100mm to 600 mm)
TUFGrip TLP (red).			



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Joint Restraint Con'd...	Molecularly Oriented Polyvinyl Chloride (PVCO) AWWA C909	Sigma	PV-LOK: PWM - PVCO to MJ fitting PVPF - PVCO to PVC fitting PWP - PVCO bell and spigot.
		Star	Stargrip Series 4000 (100mm to 300mm)
			Stargrip Series 4000G2 (100mm to 300mm)
			9000C – pipe to MJ push-on fittings (100mm to 300mm); 9100C – Bell Joints (100mm to 300mm); 9200C – pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm).
		1000G2C – pipe to MJ push-on fittings (100mm to 300mm); 1100G2C – Bell Joints (100mm to 300mm); 1200G2C – pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm).	
Tyler/Union	TUFGrip TLP (red) - pipe to MJ fittings (100mm to 300mm)		
Main Stops (Corporations)	19mm to 50mm AWWA C800 NSF 61(Annex G) compression end, ball Type non-draining	Cambridge Brass	301NL - A3H3, A4H4, A6H6, A7H7
		Ford Meter Box Co.	FB1000 Series, Q Type
		Mueller	300 B-25008N
Pipe	Concrete Pressure Pipe 500mm and larger AWWA C300, C301, C302 and C303, OPSS 441 Plant pre-qualified by ACPPA	Forterra	
		Decast Ltd.	
	Ductile Iron Pipe 100mm to 200mm & 300mm Pressure Class 350, tyton joint, AWWA C104 / A21.4, C110 / A21.10, OPSS 441	Canada Pipe Company	Includes polyethylene encasement of pipe and fittings AWWA C105 / A21.5
	Ductile Iron Pipe 400mm to 1050mm tyton joint, Class 52 AWWA C104 / A21.4, C110 / A21.10, OPSS 441	Canada Pipe Company	Includes polyethylene encasement of pipe and fittings AWWA C105 / A21.5



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
Pipe Cont'd...	Ductile Iron Pipe 1200mm (tyton joint) Pressure Class 350 AWWA C104 / A21.4, C110 / A21.10, OPSS 441	Canada Pipe Company	Includes polyethylene encasement of pipe and fittings AWWA C105 / A21.5
	Polyvinyl Chloride (PVC) 100mm to 200mm & 300mm AWWA C900 - DR18 OPSS 441	Ipex	Blue Brute
		Royal Building Products	Royal Seal
		National Pipe and Plastics	AWWA C900
	Molecularly Oriented Polyvinyl Chloride (PVCO) 100mm to 200mm & 300mm AWWA C909 - DR18 PC150, OPSS 441	IPEX	Bionax
	Polyvinyl Chloride (PVC) 400mm AWWA C905 – DR18 OPSS 441	Ipex	Big Brute, Centurion
		Royal Building Products	Royal
Polyvinyl Chloride (PVC) 500mm to 750mm AWWA C905, OPSS 441	Ipex	Big Brute, Centurion	
	Royal Building Products	Royal	
Water Service Pipe 19mm to 50mm AWWA C800, OPSS 441, ASTM B88, Type K Soft Copper	Great Lakes Copper Canada Ltd.		
Repair Clamps	clamps to be supplied with conductivity strip	Robar Industries	5616, 5626, 5636
		Ford Meter Box Co.	Style FS1, FS2 and FS3
Service Boxes	Slide adjustment type Stainless steel rods brass cotter pin	Mueller	H-10300 Series
		Clow	"D" Series



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Service Saddles	DI, PVC Pipe Outlet size: 19mm to 50mm stainless steel straps Denso protection at installation AWWA taper (cc)	Cambridge Brass	403 and 812 Series
		Ford	FS202
		Robar Industries	2506 DS, 2616
		Smith Blair	317
	Concrete Pressure Pipe Outlet size:19mm to 50mm	Ayotte Enterprises	A-900 with A-571 thermoplastic coating (400 mm only)
Tapping Sleeves	Outlet size: 100mm to 400mm Protective coating shall be applied to all steel sleeves.	Ayotte Enterprises	A-600 with A-571 thermoplastic coating, stainless steel nuts and bolts - concrete pipe only
		JCM Industries	JCM 415 epoxy coated with stainless steel nuts and bolts, concrete pipe only
		Smith Blair (Steel)	#622 epoxy coated (up to 750mm) Ductile Iron and PVC pipe
		Robar Industries (Steel)	6808 and 6906 epoxy coated (100mm to 500mm) Ductile Iron, C900 PVC only
		Romac (Steel)	FTS420 epoxy coated Ductile Iron pipe
Tracer Wire	Solid 12 gauge copper		TWU75 or RWU90XLPE
Valves	Butterfly Valve 450mm and Larger AWWA C504, Class 150B manual actuator - traveling nut type with external position indicator nuts, bolts, and bolt studs to be stainless steel Former City of Hamilton: 25mm operating nut, open right (clockwise) Former Municipalities: 50mm operating nut, open left (counter clockwise)	Clow Canada	M & H 504 (450mm to 500mm) M & H AWWA Large Diameter (600mm and larger) Valve seat adjustment to face spool piece side
		Mueller	Lineseal



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
Valves Cont'd...	<p>Gate Valve* Resilient Wedge 100mm to 300mm</p> <p>AWWA C509, C515 nuts, bolts, and bolt studs to be stainless steel, bronze pin top adjustment not permitted</p> <p>Former City of Hamilton: 25mm operating nut, open right (clockwise)</p> <p>Former Municipalities: 50mm operating nut, open left (counter clockwise)</p> <p>*includes hydrant secondary valves</p>	Clow	F-6100, F-6102, F-6106
		Mueller	A2360-6, A2360-19, A2360-23
		American AVK Co.	Series 65
	<p>Gate Valve Resilient Wedge 400mm</p> <p>AWWA C509, C515</p> <p>nuts, bolts, and bolt studs to be stainless steel</p> <p>Former City of Hamilton: 25mm operating nut, open right (clockwise)</p> <p>Former Municipalities: 50mm operating nut, open left (counter clockwise)</p>	Clow	F-6102
		Mueller	A2361-6
	<p>Combination Air Release and Vacuum Breaker Valves</p> <p>AWWA C512 with surge protection</p>	A.R.I Flow Control Accessories	D-060 C HF NS
		Vent-O-Mat	Water RBX Series
	<p>Tapping Valves</p> <p>100mm to 300 mm AWWA C509</p>	Clow	F-6106
		Mueller	A2360-19
	<p>Tapping Valves</p> <p>400mm to 600mm AWWA C509</p>	Clow	F-6106BG
		Mueller	A-2361-19



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
Valve Boxes	Sliding Type with 6mm pre-drilled tracer wire hole and grommet in upper section	Bibby Ste. Croix	VB1000 Series
Valve Chambers	OPSS 407, 1351 Plant must be pre-qualified by the Ontario Concrete Pipe Association	Anchor	
		Con Cast	
		Co-Pipe	
		Forterra	
		M-Con	
		Decast Ltd. Wilkinson	
Valve Chamber Frame and Cover	OPSS 1850 OPSD 402.011 WM 212.03	Bibby	
		R.B. Agarwalla	
		Mueller	
		EJ (McCoy)	
	750mm cover OPSS 1850 10 - 25mm vent holes "WATER" cast into cover 4 lifting keyways	EJ (McCoy)	Frame 1220Z1, Product No. 00122016 Cover 1220B, Product No. 00122028
Water Meter Reader Enclosure		Hoffman Nema 4x, fiberglass	Includes internal mounting plate



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Catch Basins	CSA A257.4 Form 700 OPSS 407, 1351 Supplied from a plant prequalified by the OCPA	Co-Pipe	
		Con Cast	
		Forterra	
		M-Con	
		Decast Ltd.	
		Wilkinson	
Catch Basin Frames & Covers	OPSD 400.100 ASTM A48 OPSS 1850	Bibby	
		Domcast	
		EJ (McCoy)	"All in one" cover
		Labco	
		Mueller Canada	
		Prosperity Exim P.	LM
		R.B. Agarwalla	
Couplings	CSA B182.2 CSA B182.4 OPSS 1841	Fernco Connectors	
		Kwik Connectors	
		Mission Rubber Co.	
		Pipe Conx	
		Preper-PLS Tech	
Culvert Pipe	Corrugated Steel (CSP) Riveted or Spiral CSA G401 galvanized or aluminized (Type 2) OPSS 1801 and 1841 up to 1000mm - 1.6 Gauge over 1000mm - 2.0 Gauge	Armtec	Hel-Cor, Ultra Flo
		Atlantic Industries	
		Canada Culvert	Steelcor
	HDPE and PVC OPSS 1840, ASTM F 894	Armtec	Big "O", Boss 2000
		Ideal Drain Tile Ltd.	Challenger 2000
Goss Traps	SEW-304	EJ (McCoy)	
		CB Trap	
Maintenance Holes	CSA A257.4-M92 Form 700 OPSS 1351 1200mm to 3000mm Supplied from a plant prequalified by the OCPA	Coldstream	
		Co-Pipe	
		Con Cast	
		Forterra	
		M-Con	
		Decast Ltd.	
		Wilkinson	



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.	
Maintenance Hole Frames & Covers	OPSD 401.010 Type A and B ASTM A48	Bibby		
		Domcast		
		EJ (McCoy)		
		Mueller Canada		
		Prosperity Exim P.	LM	
		R.B. Agarwalla		
Sewer Pipe	Vitrified Clay Pipe 150mm to 600mm CSA A60.1M-1976 Form 500	Logan	T-Tap (without flanges)	
		Concrete Pipe - Reinforced 300mm or greater CSA A257.2 65-D, 100-D, 140-D Form 500 and 700 OPSS 1820 Supplied from a plant prequalified by the OCPA	Co-Pipe	
			Con Cast Pipe	
	Forterra		Concrete Bell (mortared in)	
	M-Con			
	Polyvinyl Chloride Pipe (PVC) Smooth Wall 150mm – SDR 28 200mm to 600mm – SDR 35 CSA B182.2 Form 500 OPSS 1841	Ipex	Ring-Tite Enviro-Tite	
		Next Polymers	NEXT Duraloc	
		Royal Building Products	Royal	
	Saddles / Connections	CSA B182.2 CSA B182.4 100mm to 300mm	ADS Canada	Inserta – Tee Saddle Tee (2 straps) Saddle Wye (2 straps) Wing Adapter Universal Sewer Saddle 22 ½° to 45° bends
			Fernco 100mm and 150mm	EZ Tap
Specialty Products 2000 Inc. (150mm)			Core Bell Adaptor	
Valves	Combination Air / Vacuum Breaker AWWA C512	A.R.I	D-020 (stainless steel)	



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
High Pressure Sodium Lamps – all wattages, medium and mogul base	Non-cycling, TCLP compliant including lead-free brass base. 30,000+ hours life, universal operating position. Meet ANSI specification corresponding to wattage.	General Electric	Ecolux NC
		Osram Sylvania	Lumalux Plus/Eco
		Philips	Ceramalux ALTO Non-Cycling
Metal Halide Lamps – all wattages, medium and mogul base	Inclusive of probe start, pulse start and ceramic metal halide. Operating position designation as per luminaire requirements. Meet ANSI specification corresponding to wattage.	General Electric	Multi-Vapor
		Osram Sylvania	Metalarc
		Philips	Metal Halide (standard)
Metal Halide Lamps – 200W	200W pulse start lamps	Venture	Unit-Form
Photocell – Standard life, twist-lock type	Standard Life Photoelectric controller with NEMA rated locking type blades. OPSS 2485 Note: Use only permitted for maintenance/replacement. Prohibited for use with LED luminaires.	Fisher-Pierce	FP-N770 Series Instant Response
		DTL	DSS Series
		Precision	
Photocell – Long life, twist-lock type	Long Life Photoelectric controller with NEMA rated locking type blades. OPSS 2485	DLL Elite	DTL 127
		Fisher-Pierce	TRS Series
		SELC	8483 Range
Photocell – Standard life, button type	Photoelectric controller – button/micro CSA C239	Fisher-Pierce	B Series
		DTL	DBE Series



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Cobra-head Luminaires – drop glass, all wattages	Prismatic drop glass high pressure sodium and metal halide 'cobra-head' luminaires Integral twist-lock photocell socket CSA C22.2 No. 9.0-96 CSA C653-08, OPSS 2432 Note: Use only permitted for maintenance/replacement.	Cooper Lighting	OVZ Series
		American Electric Lighting	115 Series
		General Electric	M-250R2 Series
LED Cobra-head Luminaires – all wattages	Light Emitting Diode (LED) 'cobra-head' luminaires, conforming to specifications established in RFPQ C11-59-12	Philips Lumec	Roadview Series
		General Electric	ERS Series
		Cooper Lighting	Navion LED Series
Cobra-head Luminaire – sag/flat glass, all wattages	Sag glass/flat glass (cut-off) high pressure sodium and metal halide 'cobra-head' luminaire. Integral twist-lock photocell socket CSA C22.2 No. 9.0-96 CSA C653-08 OPSS 2432 Note: Use only permitted for maintenance/replacement.	Cooper Lighting	OVF Series
		American Electric Lighting	115 Series
		General Electric	M-250R2 Series
Decorative Luminaire – Carriage Style, all wattages	Decorative carriage (4-sided lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96 CSA C653-08	King Luminaire	K601 Empress Series
		Cooper Lighting	Springdale Series
		Cyclone	Elencia Series
		American Electric Lighting	Georgian Style Series
Decorative Luminaire – Tear Drop Style, all wattages	Decorative tear-drop (lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96 CSA C653-08	King Luminaire	K211 Manchester Series
		Holophane	Memphis Series
		Philips Lumec	Renaissance Series



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Decorative Luminaire – Acorn Style, all wattages	Decorative post-top (lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96 CSA C653-08	King Luminaire	K118 Washington Series
		Cooper Lighting	ARN Acorn Series
Power Supply Pedestal Feeder Wiring	Single conductor, stranded copper wire 90 degree Celsius, 600V rated Type RWU90-XLPE #2 AWG (minimum) CSA C22.2 No.38	Anixter Canada	6CN Series (or equal)
		General Cable	
		Southwire	
Pole-to-pole and Branch Feeder Wiring	Single conductor, stranded copper wire 90 degree Celsius, 600V rated Type RWU90-XLPE #6 AWG (minimum) CSA C22.2 No.38	Anixter Canada	6CN Series (or equal)
		General Cable	
		Southwire	
In-pole/In-arm (internal) Wiring	Single conductor, solid copper wire 90 degree Celsius, 600V rated Type TWU #12 AWG (minimum) CSA C22.2 No.75	Anixter Canada	6CA Series (or equal)
		General Cable	
		Southwire	
Electrical Conduit and Fittings	Type II rigid polyvinyl chloride (PVC) 50mm (minimum) CSA C22.2 No.211.2-06	Ipex	Scepter
		Royal	Rigicon
Concrete Pole – Standard Duty, all lengths	Direct buried, spun concrete pole– street lighting use. Class B (minimum) CSA A14-M1979 CSA C22.2 No. 206-M OPSS 2421 OPSD 2225.01	Stresscrete Group	
		Utility Structures Inc. (USI)	



PRODUCT	SPECIFICATION	MANUFACTURER	DESCRIPTION / MODEL No.
Concrete Pole – Heavy Duty, all lengths	Direct buried, spun concrete pole – combined use (street lighting & traffic signals). Class D (minimum) CSA A14-M1979 CSA C22.2 No. 206-M OPSS 2421 OPSD 2225.01	Stresscrete Group	
		Utility Structures Inc. (USI)	
Concrete Pole – Decorative Octagonal, all lengths	Direct buried, spun concrete pole – street lighting use. Class B (minimum) Octagonal decorative tapered profile, midnight black etched finish CSA A14-M1979 CSA C22.2 No.206-M OPSS 2421 OPSD 2225.01	Stresscrete Group	
		Utility Structures Inc. (USI)	
Concrete Pole – Decorative Post/Top Mount, all lengths	Direct buried, spun concrete pole – street lighting use. Decorative, including profiled decorative base, midnight black etched finish – post top luminaire mounting. CSA A14-M1979 CSA22.2 No.206-M OPSS 2421 OPSD 2225.01	Stresscrete Group	Sheridan Collection Series
Street Light Luminaire Bracket Arm - Standard, all projection lengths	Aluminum tapered sidemount elliptical bracket arms. OPSS 2428 OPSD 2250.01 OPSD 2420.01	Aluminous Lighting Products	
		Stresscrete Group	
		Dynapole	
Street Light Luminaire Bracket Arm – Decorative, all projection lengths	Decorative metal ‘Victorian’ scroll arm – side mount configuration – midnight black painted finish	Stresscrete Group	17x Series



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Pole Identification Tag	Aluminum Engraved modular number/letter insert type pole ID tags.	Almetek	E-Z Tag V400-TH-A
	25mm letter/numbers, black text on white or natural aluminum background. Vertical orientation, affixed with aluminum banding	Electromark	
Power Supply Pedestal	Complete pedestal assembly consisting of the following: - 100A rated meter socket c/w blank/shorting meter socket insert - 120/240V, 100A panelboard c/w 60A-2P main breaker, 6x40A-1P branch breakers and provision for up to 12 breakers - All equipment contained within a weather proof, tamper proof, dark green in colour metal ground/pad mounted enclosure - Enclosure door and internal panelboard door shall have provision for pad-locking CSA or ESA Approved	Pedestal Solutions Inc.	HSLM271-6-40
		Keltour Controls Inc.	
Ground Rod Inspection Well	Polymer 254mm dia. Light duty inspection well/handwell ASTM C857 – A0.3 SCTE – Light Duty	Carson	L Series 910



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Electrical Conduit and Fittings	Polyvinyl Chloride (PVC) 25 mm, 50 mm and 75 mm Bell end conduit NEMA TC-2 Schedule 80 CSA C22.2 No. 211.2-06 DT:0111-01 and DT:0111-02	IPEX	Scepter (type II), includes IPEX 100 conduit cement
	High Density Polyethylene (HDPE) - CSA B137.1-05, ASTM F2160 DT:0111-01 and DT:0111-02	IPEX Carlton	
Electrical Handholes	Polyvinyl Chloride (PVC) OPSD 2113.010 - Type III, rectangular	IPEX	
	Precast concrete with cast iron frame & cover OPSD 2112.02 (460 mm dia.) ANSI/ASTM A48	HY-GRADE	
Detector Loop Lead-in Cable	# 14 AWG Overall shielded, twisted pair Polyethylene insulation PVC Jacket, 600 V	Belden	8720
Detector Loop Sealant	Non-shrinking Won't fracture at - 40 ° C	3M	Detector loop sealant 5000
		Chemque Canada	Q-Seal: 290S, 290W 295S, 295M
Detector Loop Splice Tape	Vinyl electrical tape OPSS 623 compliant CSA 22.2 No. 197 600 volts (- 18° C to 105° C)	3M	Scotch Super 88
Detector Loop Wire	Stranded copper wire #14 AWG, Black Type RWU-90 X-link 1000 V - 40° C OPSS 623 - CSA 22.2 No. 38	General Cable	Spec. # 5600
Grid Interconnecting Conductors	Solid, soft drawn, un-insulated Bare #2 AWG copper wire	Erico	Eritech
		Southwire	



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Ground Electrode Conductor	Stranded copper wire RWU90-XLPE - insulated Green #3 AWG	Noramco	
		General Cable	
Ground Electrode Connectors	Compression connectors	Thomas & Betts	Blackburn E-Z-Ground
Ground Enhancement Material	< 20 ohm-cm resistivity MSDS sheet required DT:011-01 and DT:011-02	SAE Inc.	Conducrete DM100
		Erico	GEM25A
		Harger Lighting and Grounding	Ultrafill
Ground Rod Inspection Well	Polymer Concrete	Oldcastle Precast	Carson H-Series
Grounding Plates	254 mm x 400 mm x 6mm (10" x 16" x 1/4") galvanized steel CSA C22.2 No. 41-M or UL467 Min 0.2 sq. meter surface area DT:011-01 and DT:011-02	Thomas & Betts	Blackburn 1016TB
		Erico	Eritech EGGPC
		Hydel Enterprises	1016GPGC
Grounding Rods	3.0 m x 19mm (10' x 3/4 ") copper clad steel, pointed minimum 10 mils of copper CSA C22.2 No. 41-M or UL467 DT:011-01 and DT:011-02	Thomas & Betts	Blackburn 7510
		Erico	Eritech 61340
		Hydel Enterprises	3410CC
Junction Boxes for Detector Loop Splices	Fibre reinforced PVC OPSD 2300.010, Type No. P1-5 200mm x 200mm x 175mm Flanged with cover H-10 highway loading	IPEX	Scepter - H887