



# **VOLUME 3 DRAINAGE**

## **DRAINAGE APPROVED PRODUCT LIST**

**August 2025**

## Drainage Approved Product List (DAPL)

Vol.	Section	Main Category	Sub-Category	Product	Model	Manufacturer	Additional Specifications/Standards Drawings/Remarks
3-01	8	Maintenance Hole	Oil-Grit Separator	Stormceptor		Imbrium Systems, Inc.	
				CDS		CONTECH Engineered Solutions LLC	
3-02	4	Control Structure	Valve	Water control gates on control maintenance holes	SS 316, Series 60	Fontaine Aquanox	DR-02-04-01 - Typical Davit Base, Guard Rail and Hatch Layout on Control Structure
	5	LID	Geogrid	Combigrd 30/30		Naue GmbH & Co. KG	
				StrataGrid SG150		Strata	
			Geomembrane	40 mil LLDPE waterproof barrier liner	Enviroflex Smooth LLDPE - 40 mil	Nilex	
			Junction Box	Duralite	Various sizes	Oldcastle Infrastructure	
				Synertech		Oldcastle Infrastructure	
			Soil Cell	Silva Cells		DeepRoot	
				Stratavault 40 series soil cells		Citygreen	
			Turf Reinforcement Mat	VMax 3 turf reinforcement matting	VMax SC250 Permanent TRM	North American Green	
3-03	2	Corrosion Protection	Coating	Neopoxy (Spray or hand application)	NPR-5304, NPR-5305	Neopoxy LLC.	
			Liner	Agru-Ultra Grip 13 mm anchor or Agru Sure-Grip 19 mm anchor		AGRU America, Inc.	
		Control/Station Structure	Anchor	Swivel Anchor	RACSW100C-316C (for the concrete mount) or RACSW100S-316 (for steel mount)	Honeywell Miller	DR-02-04-01 - Typical Davit Base, Guard Rail and Hatch Layout on Control Structure Zinc coated anchors for location that don't have H <sub>2</sub> S or deicing salt environment
					SWS100C & SWS100S (for both concrete & steel mount)	Climbtech	DR-02-04-01 - Typical Davit Base, Guard Rail and Hatch Layout on Control Structure EPCOR Drainage prefers Miller. If miller is not available, Climbtech can be used. Zinc coated anchors for locations that

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							don't have H2S or deicing salt environment
3-04	2	Pump	Dry & Wet Well	Flygt N-Technology Water & Wastewater Pumps N-3000 SERIES		Xylem Water Solutions	
				Flygt Grinder Pumps M-3000 SERIES		Xylem Water Solutions	
3-04	2	Pump	Dry & Wet Well				
			Mixer	Flygt Single Speed Mixer Installed Model 4610.180		Xylem Water Solutions	
			Valve	Knife gate valve	316 stainless steel cartridge knife gate	Wey Victaulic	Single / double block and bleed lift station valves
				Valve cap with sewer or storm marking similar to water valve cap		Norwood Foundry	
		Corrosion Protection	Wet Well	Reactimine 760		Carboline	
				Spectrashield		CCI Spectrum, LLC	
				SewerGard 210 GL Glaze		Sauereisen, Inc./Clayburn Services Ltd.	
				Ceilcote 680 Primer, Ceilcote 664 Ceilgard		AkzoNobel	
				Ceilcote 610 Ceilpatch		AkzoNobel	
	Appendix A	Pump	Electrical	Regulator Level ENM-10 w/ 50m Cable		Xylem Water Solutions	
				Sensor Ultrasonic Level Multiranger 100		Siemens	
3-06	10	Pipe	Insulation	Pipe insulators and spacers for bored undercrossings		Plainsman Manufacturing Inc.	Two-part epoxy painted steel band with plastic runners
	12	Pipe	PVC	PVC PSM SDR14/SDR18 for sewer forcemains and trenchless applications		IPEX Inc.	CSA B137.3 Pipes for sewers shall not be blue colour
	13/14	Pipe	Casing	Silvertip Casing Spacers (HD and CS); Silvertip ESP (pull-on) and ESW (wrap around) end seal		InfraChoice	

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			Concrete	Reinforced circular concrete pipe and all related products, fittings, bends, reducers, increasers, plugs, caps, and radius pipe.		Lafarge Canada Inc. Proform Construction Products Inc. Inland Pipe Precon Manufacturing Ltd.	CSA A257.2 with flexible rubber gasket joints to CSA A257.3
3-06	13/14	Pipe	Fitting	Flexible coupling Shielded coupling		Fernco Connectors Ltd.	ASTM D5926, ASTM C1173, CSA B602 Fernco couplers should be restrained where possible. In lift stations, Victaulic couplings with built in restraint is preferred.
				PVC PSM SDR35 Elbow, Tee, Wye, Bend, Long radius bend		IPEX Inc., Tigre	PVC PSM SDR35
				PSM SDR35 x Ultra-Rib adaptor		IPEX Inc.	
				Service connector - Inserta Tee		Inserta Tee	
				Service connector - Core-Bell insert type with rubber gasket sleeve and stainless steel clamp		Galaxy Plastics	
				Gasketted "strap-on" Tee (or Wye) saddle with two stainless steel clamps for PVC mains		IPEX Inc. Multi-Fittings Inc. Fernco Connectors Ltd.	
				HKT Service connector for 300 mm to 750 mm diameter concrete pipe only		Hamilton Kent	
				Sewer adapters for connecting to existing building service connections	PlumbQwik HKT (for concrete pipe)	Fernco Connectors Ltd. Hamilton Kent	ASTM D5926, ASTM C1173, CSA B602
			FRP/GRP	Centrifugally cast, glass-fiber-reinforced thermosetting, polymer mortar pipe		HOBAS Pipe USA, Inc.	ASTM D3262
			HDPE	HDPE			HDPE pipe is approved for forcemains and pipe busting applications only.
			Insulation	DOW HI-40 Styrofoam		The Dow Chemical Company	
				Terraform HS-40		Beaver Plastics	
			PVC	Enviro-Tite SDR35 – up to 375 mm		IPEX Inc.	CSA-B182.2, Minimum Pipe Stiffness 320 kPa

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3-06	13/14	Pipe	PVC	PVC PSM SDR35		IPEX Inc., Napco Royal, Northern Pipe Products, Next Polymers, Diamond Plastics	CSA B182.2
				Ultra-Rib PVC Profile Pipe 200 - 600 mm		IPEX Inc.	CSA-B182.4, Minimum Pipe Stiffness 320 kPa
	15	Pipe	Insulation	Pre-insulated pipes		Urecon Ltd.	
				Insulation Kits for Buried Fittings - Polymer coating	BL-75-20EP	Urecon Ltd.	
				Adhesive coated cross-linked polyethylene sleeve		Canusa-CPS nVent RAYCHEM	
				Insulation Foamed in Place		Portafoam®	
				Heat-shrink tape for sealing insulation half shells against moisture adaptable to flexible installations		Canusa-CPS nVent RAYCHEM	
				Asphalt mastic vapor barrier coating to waterproof exterior surfaces of half shells or sprayed in place foam	Bakor #110-14 Insul-Mastic #7505	Henry Company Innovative Manufacturing Inc.	
	17	Catch Basin	Catch Basin	Catch Basins and all related products: base slabs, flat caps, transitions, risers and grade rings.		Lafarge Canada Inc. Proform Construction Products Inc. S3 Precast / Tanks-A-Lot Inland Pipe Precon Manufacturing Ltd.	CSA A257.4
			Seal/Gasket	Kent-Seal		Hamilton Kent	
		Maintenance hole	Maintenance hole <sup>1</sup>	Maintenance holes and All related products: base slabs, flat caps, transitions, risers, monolithic bases, tapered tops, drop connections, pre-benching, and grade rings.		Lafarge Canada Inc. Proform Construction Products Inc. S3 Precast / Tanks-A-Lot Inland Pipe Precon Manufacturing Ltd.	CSA A257.4
3-06	17	Maintenance hole	Seal/Gasket	Tylox Superseal		Hamilton Kent	

<sup>1</sup> Shop drawing of maintenance holes for diameter ≥ 1500 mm should be reviewed and accepted by EPCOR prior to installation.

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			Step	Kent Seal		Hamilton Kent	ASTM C990
				Galvanized Steel			A 25 mm diameter mild steel and deformed bar conforming to ASTM A615, hot bent at temperature of at least 870°C and galvanized in accordance with ASTM A123/A123M.
				Aluminum	Model# 350	MSU Mississauga Ltd.	Minimum 20 mm diameter aluminium forged from 6061-T6, 6351-T6 or equal alloy having minimum tensile strength of 260 MPa.
				MSA Latchways Vertical Ladder Lifeline System		MSA Safety Incorporated	
				Polyethylene Coated Aluminum	Model# 360	MSU Mississauga Ltd.	
		Pipe	Connector <sup>2</sup>	Tylox Cobra style boot connector		Hamilton Kent	ASTM C923, to connect flexible pipe to maintenance hole/catch basin
				Flat Top Adaptor		Hamilton Kent	ASTM C923, to connect profile pipe to maintenance hole/catch basin
				PSX: Direct Drive		Press-Seal Corporation	
				HYMAX2 grip coupling		HYMAX	For forcemain
	18	Maintenance hole/Catch Basin	Frame, covers, grates	Frames, covers, and grates for drainage maintenance holes, catch basins and associated structures		D&L Foundry Inc. Norwood Foundry Limited	Standards drawings DR-06-18-01 to DR-06-18-12
3-06	20	Pipe	Concrete	Precast reinforced concrete box sections and all related products: fittings, bends, reducers, increasers, plugs, caps, and radius boxes		Lafarge Canada Inc. Proform Construction Products Inc. S3 Precast / Tanks-A-Lot Inland Pipe Precon Manufacturing Ltd.	ASTM C1433
	26	Pipe	Liner	Nova Form PVC Liner: up to 750 mm		IPEX Inc.	
	29	Maintenance hole	Waterproofing	Cementitious waterproofing Xypex		Xypex Chemical Corporation	
	Various	Maintenance hole	Liner/Coating	Triplex Liner System	Triplex-11600, Triplex-6800, Triplex-5600, Triplex-4400	McNeil Technologies Inc.	

<sup>2</sup> Sanded adaptors, Fernco “donuts” and mortared connections for flexible pipe are not permitted.

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		Pipe	Liner	Structural Glass Reinforced Plastic (GRP/FRP) lining systems		Channeline International Fiberglass Manufacturing L.L.C.	
		Miscellaneous	Concrete Repair	Sikacrete-08 SCC		Sika Canada Inc.	
				Planitop X		MAPEI Inc.	
			Grout	Non-shrink Sulphate resistant grout (Type HS)		Target Products Ltd.	ASTM C1107
				MasterFlow – Metallic Non-Shrink Grout (Formerly Embeco)		Master Builders Solutions	
				SikagROUT-212 SR		Sika Canada Inc.	
				MME Flexible Resin		MME Multiurethanes	
3-06	Various	Miscellaneous	Protective Coating	Sikadur®-32 Hi-Mod		Sika Canada Inc.	
				Sikagard-75 Epocem		Sika Canada Inc.	
				Sika MT Primer		Sika Canada Inc.	
				Sikagard E.W.L. Trowel Grade		Sika Canada Inc.	
				Sikagard E.W.L. Bonding Agent		Sika Canada Inc.	
3-06	Various	Miscellaneous	Waterproofing	Cementitious waterproofing Vandex		The Euclid Chemical Company	

## Note:

1. The products under evaluation or assessment were deleted from the Approved Product List and case-by-case approval is required for their use.
2. If there are any product(s) that are being used in drainage projects but missing in the DAPL, please notify EPCOR Drainage Engineering at DRENG@epcor.com with product information and proof of installation in previous projects.
3. If consultants, contractors, manufacturers/suppliers propose to use new product(s) that are not listed in DAPL, please submit new product review request to DRENG@epcor.com per Section 4.0: Product Approval Procedure of Vol.3-05: Drawing Requirements, Approvals and Asset Acceptance/Transfer.