



Ministry of
Transportation
and Infrastructure

RECOGNIZED PRODUCTS LIST

March 1st 2018 Edition



Rock Slide - Highway #7 near Hope

Edited and Maintained by: **NEW PRODUCTS EVALUATION STANDING COMMITTEE**

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INTRODUCTION & DEFINITIONS

The Recognized Products List (RPL) document is intended for reference use by Contractors who are providing services or performing work for the Ministry, which entails supplying or providing material for use in the infrastructure.

Products are listed, which in the opinion of the Ministry satisfies the Ministry's generic specifications for the material type and use, or are otherwise satisfactory to the Ministry. In some cases a qualifier on applicability or usage may be included.

This RPL listing is not to be construed to be an endorsement of a given product, or in any way a guarantee of adequate performance relative to the specific Contract requirements.

Use of a listed material/product by a Contractor shall in no way relieve the Contractor from his contractual obligations.

This list is intended to be a **guide only** for Contractors to identify those products which the Ministry feels generally meets its Specifications/Work for particular purposes as:

“ACCEPTED” products are products recognized to be acceptable and may be used on Ministry Projects as long as the products meet the requirements of the Standard Specifications and/or the Work.

“PROVEN” (designated as now accepted);

“APPROVED” (designated as accepted) products for which the Ministry has been directly involved in the development of the products for a very specific purpose unique to the Ministry (e.g. traffic paint); and

“TRIAL” (designated as trial use only) products are products which have been reviewed for trial purposes for a specified period and may be used subject to the Ministry (Project) accepting the product for use as either identified within special provisions or upon acceptance after contract award.

Absence from this list of a brand of product does not necessarily imply that it does not meet the Ministry Specifications or Work requirements.

For the latest status of any product, please direct inquiries to the RPL Committee by fax (250) 357-7735 to the Ministry of Transportation and Infrastructure, Geotechnical, Materials & Pavement Engineering, Victoria, or email to: RPL@gov.bc.ca. The RPL Standing Committee welcomes suggestions for improving its service.

Process explaining the RPL Committee and a products submission form are available online.

NOTE: Throughout the List, a three/four digit number in brackets shown after the name of some products is an office “Product Submission Form” file number and has no reference to the Product Name.

RECOGNIZED PRODUCTS LIST

ASPHALT MIX PAVEMENT PRODUCTS

ASPHALT CEMENTS

GENERAL

As specified in the Standard Specifications for Highway Construction Section 952 and Special Provisions.

ACCEPTED ASPHALT GRADE PRODUCTS
80-100A, 120-150A, 150-200A, 200-300A.
PG 64-25, PG 64-22, PG 58-31, PG 58-28, PG 52-34, PG 70-22.
ACCEPTED PRODUCERS
Husky (Lloydminster, AB; Kamloops, BC)
Chevron (Vancouver, BC)
Imperial Oil (ESSO) (Edmonton, AB) (055)
Shell (AB)
Montana Refining (Great Falls, Montana)
Moose Jaw Refining (Moose Jaw, SK)
TERMINAL SUPPLIERS from ACCEPTED PRODUCERS
Ambertec (Macklin, SK)
COLASPHALT (Acheson, Clairmont, Shepard, AB, Kamloops, BC) (050)
McAsphalt (Calgary, AB; Vancouver, BC) (811)
McTar (Clover Bar, AB)

ADDITIVES for ASPHALT PAVEMENT MIX

GENERAL

As specified in Standard Specifications for Highway Construction Section 952 and Special Provisions.

LIQUID ASPHALT (CUT BACKS)

The Notice announcing the final Code of Practice for the Reduction of Volatile Organic Compound (VOC) Emissions from Cutback and Emulsified Asphalt was published in the Canada Gazette, Part I, on February 25, 2017. The Notice provides a link to the Code which is available on Environment and Climate Change Canada's Volatile Organic Compounds website. See <http://www.ec.gc.ca/cov-voc/default.asp?lang=En&n=05CE2B41-1> for information.

Regulated by Ministry of Environment, Waste Management Act – Asphalt Plant Regulation (Part 3 Hot Mix Asphalt and Cutback Asphalt) these products may not be used on roadways between May 1 and Sept 30 as a primer or tack coat.

PRODUCERS
Husky (0401)
Imperial (055)
Moose Jaw

SLOW CURING

ACCEPTED PRODUCTS
SC-70; SC-250, SC-300, SC-800

MEDIUM CURING

ACCEPTED PRODUCTS
MC-30, MC-70, MC-250, MC-800

FAST CURING

ACCEPTED PRODUCTS
RM-20;RC-30; RC-70; RC-250

EMULSIONS

As specified in Standard Specifications for Highway Construction Section 952 and Special Provisions.

The Notice announcing the final Code of Practice for the Reduction of Volatile Organic Compound (VOC) Emissions from Cutback and Emulsified Asphalt was published in the Canada Gazette, Part I, on February 25, 2017.

The Notice provides a link to the Code which is available on Environment and Climate Change Canada's Volatile Organic Compounds website.

See <http://www.ec.gc.ca/cov-voc/default.asp?lang=En&n=05CE2B41-1> for information.

PRODUCERS	PRODUCERS
Ambertec	Pounder
Colasphalt (050)	Western Asphalt Products
McAsphalt (811)	

GENERAL

As specified Standard Specifications for Highway Construction Section 952 and in Special Provisions.

HIGH FLOAT

High Float Emulsified Asphalt application will be in accordance with the Standard Specifications for Highway Construction: Section 951 – Asphalt & Paving Material for Highway Use; Section 536 Pavement Crack Sealing; and Special Provisions.

ACCEPTED PRODUCTS
HF-100, HF-100S, HF-100P, HF-150S, HF-150P, HF-250, and HF-500.

RAPID SET

Anionic

ACCEPTED PRODUCTS
RS-1; RS-2,MS-1,SS-1,SS-1H, SS-1

Cationic

ACCEPTED PRODUCTS
RS-1K; RS-2K, CRS-2, CRS-2P, QS-KH (CQS-1H) CRS-2, CRS-2P.

SLOW SET

ACCEPTED PRODUCTS
EP2000 (068)
Bitumen Emulsion SS-1

OTHERS

ACCEPTED PRODUCTS	
Dow Corning Silicone PMX 200 Fluid (051)	Redicote C2914 (318)

OTHER ASPHALT MIX PAVEMENT ADDITIVES

Pavement additives are recommended to be added at the terminal point with Asphalt Cement to ensure the binder properties meet specifications and environmental concerns are reduced.

ANTI-STRIPPING AGENTS

Use the appropriate Anti-stripping agent for the selected Asphalt (i.e.: HMA, Seal Coat) application.

ACCEPTED Manufacturers/Suppliers	ACCEPTED PRODUCTS
Akzo Nobel	Redicote C2914 (318) Redicote AP-1 & E-6 (1135) (special applications)
Road Science (994)	Ad-Here LOF 65-00 (543); Ad Here 77-00 (994); Ad Here 77-00 BL (994)
Others	CES 446 (052) MeadWestvaco Morlife 5000 (1207)
ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Indulin 814A (for H.F. Emulsions) (053)	Redicote C2914 (318) Redicote AP-1 & E-6 (1135) (special applications) ZycoTherm or ZycoTherm EZ (1176)

WARM MIX ASPHALT ADDITIVES

Warm mix additive in the Asphalt Pavement Mix may provided additional benefits (compaction enhancement, lower emissions for health/environment, reduced binder deterioration etc.). Locations shall be sent to the Pavement Materials engineer for tracking and evaluation over the life cycle.

The Ministry is undertaking assessments of various additives to produce Warm Mix Asphalt.

A Warm Mix process such as foaming (Duraclime) to produce an asphalt mix is acceptable and must comply with SS 502 EPS.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evotherm 3G McAsphalt (811)	Sasolwax - Sasobit (1098)
Rediset LQ Akzo Nobel (1135) TRIAL USE only	WarmGrip (543) TRIAL USE only

ANTI-STRIPPING AGENT/WARM MIX ASPHALT ADDITIVES

Note: Products under this category are listed as **TRIAL USE ONLY** and use must be accepted by the Ministry prior to using. (Anti-strip only - use ERMS test)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evotherm 3G McAsphalt (811) TRIAL USE only	Cecabase RT Arkema Inc. (1132) TRIAL USE only
Rediset WMX Akzo Nobel C-150 AP (1135) TRIAL USE only	WarmGrip (543) replaces Ad-Here LOF 65-00 TRIAL USE only
Rediset LQ Akzo Nobel (1135) TRIAL USE only	

ENGINEERED ASPHALT MIX PRODUCTS

MULTI-GRADE

PRODUCERS	
None at the present time.	

POLYMER ADDITIVES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SBS Latex	Rosphalt 50 LT (770) (includes paving aggregate) (note product is a polymer additive to asphalt pavement to produce an asphalt pavement with rutting, shoving, and water resistance characteristics)

POLYMER MODIFIED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Imperial Oil – EB 350 (055)	Bitumen 352 (534) <i>Discontinued</i>
Imperial Oil – EB 352 (055)	Husky Black Max (401)
Infrapave Polymer Binder (473)	

RUBBER ASPHALT

A concern of rubber asphalt use exists with Hot in Place Recycling rehab applications.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Not accepted.	

PRIMERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC-30	Snap Tac (058)
RM-20	EP 2000 (639)
CSS-1	

PRODUCERS	
Chevron (Vancouver, BC)	
COLAS (050)	Colasphalt Prime (050)
Husky (Lloydminster, AB; Kamloops, BC) (401)	Husky Oil – EAP-2 (525)
Imperial Oil (ESSO) (Edmonton, AB) (055)	
McAsphalt (811)	EPT McAsphalt (811) Anionic Clean Coat Bond and Cationic Clean Coat Bond McAsphalt (811)
Shell (AB)	

TACK COATS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC-30	CSS-1
RM-20	Snap Tac (058)
SS-1 (not for joints - tack coat only not for use as a primer)	EP 2000 (639)

PRODUCERS	
Chevron (Vancouver, BC)	Shell (AB)
COLAS (050)	Colasphalt Prime (050)
Husky (Lloydminster, AB; Kamloops, BC) (0401)	Husky Oil – EAP-2 (525)
Imperial Oil (ESSO) (Edmonton, AB) (055)	EP 94 HI-PEN primer (McTar)(651) <i>Discontinued</i> Anionic Clean Coat Bond and Cationic Clean Coat Bond McAsphalt (811) EPT McAsphalt (811)

TRACKLESS TACK COAT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Clean Bond Coat McAsphalt (811) TRIAL USE only expires December 31 2017	

EMULSIFIED PENETRATING PRIMERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
EP 2000 (639)	ABT-2 (986)
Husky Oil - EAP-2 (525)	Colasphalt Prime (050)

HOT JOINT SEALING SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor CRF- Restorative Seal (665)	Pavement Joint Adhesive - Crafcoc 34524 Crafcoc (1038)

ASPHALT PAVEMENT REHABILITATION

REJUVENATORS

CONVENTIONAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor Cyclogen L (203)	McAsphalt Rejuvenite (059)
TriCor CRF- Restorative Seal (665)	McAsphalt Rap 400 (060)
TriCor Reclamite (203)	TriCor Cyclogen P (948)

HOT-IN-PLACE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor Cyclogen L (203)	TriCor Cyclogen P (948)

ASPHALT PAVEMENT MAINTENANCE

CRACK TREATMENT

CRACK SEALING SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Denso Reinstatement Tape (547)	Seal –cut (630)
Denso Band (548)	

EMULSIFIED CRACK SEALANTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
CRF (665)	HF 150P (805)

RUBBERIZED & ELASTICIZED CRACK SEALANTS

ENTIRE PROVINCE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor CP Primer (056)	Hydrotech Sealz 6165 (732)
Bakelite 590-13A (061)	Crafco-Roadsaver 521 and 522 (1038)
Elastopave 2110 (062)	Crafco Roadsaver 221 (1038)
W.R. Meadows Hi-Spec (063)	Crafco Roadsaver 231 (1038)
Shell Cariphalt (064)	Crafco Asphalt Rubber Plus (1038)
Bi-Crackee (433) (<i>submission under review</i>)	Crafco Polyflex Type 1 and 2 (1038)
McAsphalt MACSEAL 6690-2 (was Beram 195) and MACSEAL 6690-4 (was 195/LM Hot Pour) (594)	Derry American Derry 101 elt Crack Sealant(1109)

LOWER MAINLAND SUNSHINE COAST / VANCOUVER ISLAND

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
NOTE: All products listed for entire Province plus:	
Asphalt Rubber, Type 2 or "MS" (066)	McAsphalt MACSEAL 6690-1 (was Beram 190) (593)
Bakelite 590-13 (061)	Crafco Polyflex Type 2 (1038)
Crafco Asphalt Rubber Plus (Viscous) (1038)	Hydrotech Sealz 6160 <i>Discontinued?</i>
Crafco Roadsaver 211(1038)	W.R. Meadows #164 (068)
Flex-A-Fill (067)	Tremco THC 205 (065)

PREFABRICATED CRACK SEALERS (MEMBRANES)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Crack-a-Tac (274)	McAsphalt MACSEAL 6690-2 (was Beram 195) (594)
Tapecoat M860 Road Repair (380)	Petrotac crack suppression membrane (729)
MiraTak (885)	

TRAFFIC LOOP SEALANT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Chemque Q-Seal 295 S and M (1110)

SURFACE TREATMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC- 30 (355)	Rejuvaseal N/100 (164)
SS-1	Reclamite (203)
	CRF (665)

ASPHALT PATCHING MIXES PROPRIETARY

ASPHALT PATCHING

ASPHALT BASED - COLD MIX

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Everlasting Patch Mix (080)	Husky Black Mix (401)
WR Meadows Road Repair #1178 (Reg, Fine, and Bulk) (644)	Innovative Asphalt Repair (569)
Pavement Cold Patch (562)	Perma-Patch (151)
QPR 2000 (265)	RC 1100 Cold Pour (331)
Unique Paving Materials Patch Mix (276)	Tapecoat M 860 Road Rep (380)
QPR (High Performance Cold Mix) (265)	Tag 8000 (479)
Target – Cold Patching Asphalt (700)	Crafco Polypatch (1038)
Grandview Blacktop Warm Mix (811)	EZ Street Cold Patch Asphalt (1092)
McAsphalt CCM5 (811)	

ASPHALT BASED - HOT APPLIED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Crafco Mastic One (1038)	
Crafco PolyPatch (1038)	

ASPHALT BASED - SPRAY

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
WSPE-1 Spray Patch Emulsion (939)	

EPOXY BASED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Sikadur (081)	Miton 514 (138)

PORTLAND CEMENT BASED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Duracal (082)	Ocean Patching (086)
Express Repair (083)	Road Repair 1170,1175,1178 (644)
SIKASET 45 (1133)	

SPECIALTY PAVING DEVICES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Popper (247)	I.D. Locator (447)

BRIDGES

ALTERNATIVE COMPOSITE BRIDGE GIRDERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Compo-Girder (647)

BRIDGE BEARINGS

Manufactures/Suppliers in the following categories are considered a part of the engineered solution and require specific analysis/design on a case by case basis for their applications.

ACCEPTED MANUFACTURERS	ACCEPTED MANUFACTURERS
Epic Polymer Systems Corp (1252)	Dynamic Isolation Systems (NV)
Goodco Z-Tech	Scougal Rubber (NV)
D.S. Brown (OH)	

DISC BEARINGS

LOAD MEASURING BEARINGS

POT BEARINGS; SEISMIC ISOLATION BEARINGS

SHOCK ABSORPTION

BRIDGE BEARING PADS

Manufactures/Suppliers in the following categories are considered a part of the engineered solution and require specific analysis/design on a case by case basis for their applications.

ACCEPTED MANUFACTURERS	ACCEPTED MANUFACTURERS
Epic Polymer Systems Corp. (1252)	Dynamic Isolation Systems (NV)
Goodco Z-Tech	Scougal Rubber (NV)
D.S. Brown (OH)	

SLIDING LAMINAR

ELASTOMERIC BEARING PADS

LAMINAR ELASTOMERIC BEARING PADS

PLAIN ELASTOMERIC BEARING PADS

BRIDGE CONCRETE SEALANTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
None at this time	

BRIDGE CONCRETE FORM AND SPACING SYSTEMS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Total Bond Bar Supports (Chairs) (721)	Sea Forms (657)

FIBRE REINFORCED POLYMER WRAP SYSTEMS

Fibre Reinforced Polymer Wrap Systems engineered with Glass, Carbon, or Aramaide fibres to meet specific requirements/applications are acceptable from the following manufacturers.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Fyfe Co. LLC (1059)	Mitsubishi Chemical - Replark
Sika Canada Inc. (1133)	Mapei FPR (1070) (TRIAL USE expires December 31st 2019)
BASF (365)	Simpson Strong Tie Composite Strengthening System (1079)

BRIDGE DECKS

DECK JOINT SYSTEMS

ASPHALTIC PLUG DECK JOINTS

CATEGORY UNDER REVIEW FOR DELETION AT THE END OF MARCH 2018

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Thorma Joint (192)	Infra-Flex APJ Bridge Joint (599)
Oletex XE 300 (561)	Sho-Bond #301 (736)

COMPRESSION SEALS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Silicoflex (654)	Mageba Tensa Compress N (723)
Mageba Tensa Grip-Movement Joint Silent (679)	Britflex "NJ" (859)
Mageba Tensa Grip-Movement Joint (680)	Mageba Tensa Lastic Grip (681) <i>Discontinued</i>

EXPANDING JOINTSEALANT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
EMSEAL Joint Systems - BEJS (1281)	

FINGER JOINTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Mageba Tensa-flex finger Joint (682)	

MODULAR JOINTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Series 2000 (GOODCO Z-Tech) (434)	Mageba Tensa Modular Expansion Joint (Type LR and LR-LS) (723)

EXPANSION JOINT HEADER

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	WaboCrete II Elastomer Concrete (1123)

STRIP SEALS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Series 1000 (GOODCO Z-Tech) (434)	Tensa – Compress A (678)

GALVANIC ANODES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BASF MasterProtect 8065 / 8105 / 8150 CP (replaces Emaco CP Intact Galvanic Anodes) (365)	Mapei Mapeshield 1 (1070) (TRIAL USE expires December 31st 2017)
Euclid Sentinel GL (1010)	Vector Galvashield and Galvanode (1273)

WATERPROOFING for CONCRETE BRIDGE DECKS

Selection of a waterproofing for concrete decks is dependent on project's application and rehabilitation. Application of a Waterproofing Membrane Systems for Concrete Bridge Decks needs to be reviewed with the Regional Bridge Engineer prior to selecting/applying a waterproofing system for a concrete bridge deck.

PREFABRICATED MEMBRANE SYSTEM FOR CONCRETE DECKS

Application and Installation of a Prefabricated Membrane system must comply with SS 419 specifications and related drawings to fulfill requirements of the complete waterproofing system.

ACCEPTED PRODUCTS	
Protecto Wrap, M-400A (152)	Tuff Tac (954)
Tamko Bridge Guard (636)	Soprema Anti-Rock Bridge Membrane(958)

HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM FOR CONCRETE DECKS

A Hot Rubberized Asphalt Membrane System supplied by a **single** Hot Rubberized Asphalt Manufacturer for waterproofing a concrete bridge deck consists of a complete package of the following materials:

- Primer;
- Hot Rubberized Asphalt;
- Waterproofing Protection Board;
- Rubber Sheet;
- Fabric Reinforcement; and
- Wick Drain.

Application and Installation of the Hot Rubberized Asphalt Membrane System must comply with Special Provisions Hot Rubberized Asphalt System (future-SS 420) specifications and related drawings to fulfill requirements of the complete waterproofing system.

Supplier/Manufacturer of Hot Rubberized Asphalt Membrane products is responsible to ensure accepted components such as primer; waterproofing protection board; rubber sheet; fabric reinforcement; wick drain; and any other related product for the System is compatible with one another to ensure a resulting waterproofing system is successful.

An Asphalt concrete wearing surface course is placed on top of the protection board to support traffic and protect the Hot Rubberized Asphalt Membrane System.

HOT RUBBERIZED ASPHALT MEMBRANE SYSTEMS

ACCEPTED HOT RUBBERIZED MEMBRANE SYSTEMS	ACCEPTED HOT RUBBERIZED MEMBRANE SYSTEMS
Bakor 790-11 MTO Grade (932)	Crafco Rubberized Waterproofing Membrane(1038)
Bemalastic 1213 BDM (1115)	CCW 500 CDN (1108) (Accepted as equivalent to Bemalastic 1213 BDM)
Ultraseal 3750 ()	Stop a Drop (954)

COMPONENTS FOR - HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM

- **PROTECTION BOARD**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
W.R. Meadows Vibraflex MTO Protection Board (087)	IKO "Protectboard" (088)
Bakor Asphalt Protection Board (932)	Soprema Sopraboard (958)

- **RUBBER SHEET**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Elastosheet 6147 (1085)	Bakor 990-25 (932)
BP47 Elastomeric Reinforcement (089)	CCP Butyl Reinforcing Strip (1038)

- **FABRIC REINFORCEMENT**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Bakor Polyester fabric (932)	Reemay 2016 (1085)

- **WICK DRAIN**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Amerdrain 407 (091)	Nilex MD/7407 (1160)

OTHER MEMBRANE SYSTEMS

LIQUID CHEMICALLY CURED – METHYL METHACRALATE, POLYMER, EPOXY

Specialty applications require Regional Bridge Engineer's guidance/approval for use and Manufacturer/Suppliers direction/training during contractor's application.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Sterling Lloyd – Eliminator (172)	Britdex "MDP" (861)
Pro-Poxy type III DOT (1063)	BDM Membrane (1115)
	Matacryn WPM & WS (1212) (TRIAL)

LIQUID HOT APPLIED RUBBERIZED ASPHALT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Stop a Drop (954)	Bakor 790 -11 (932)

WATER RESISTING MATERIALS

ACCEPTED PRODUCTS	
Rosphalt 50 (770) (includes paving aggregate) (note product is an asphalt additive to produce an asphalt pavement with rutting and water resistance characteristics)	

DECK CONCRETE SEALANTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Capseal-X (Cappar) (092)	BASF MasterProtect H1000 (replaces Hydrozo Silane 40 VOC) (365)
Sikagard SN 40 Lo-VOC (093)	Isoflex 620 (186)
Chem-Crete Pavix CCC100 (1142) TRIAL USE ONLY until December 31, 2017	Iso-Flex 618 (186)
Concresive-AEX 3142SIL-ACT ATS 42 (438)	Miton 400 (147)
Dow Corning 899 (051)	PQ 6100 BM (529)
Duralane (Dural) (094)	SIKA Sikaguard 70 (1133) Sikaguard 71H (1133) Sikaguard 740W (1133) Sikagard SN 100 (1133)
Marathon-40 (Watson) (1192)	
Suretreat (095)	BASF MasterProtect H 400 (replaces Enviroseal 40) (365)
Perma-Seal 444 (096)	Kwik Bond Polymers (1127) Bridge Sealant
Dynacrete DPS (615)	Krystol T-1 and T-2(1178) Application to surface of concrete only - not as an admixture additive.
Dynacrete Top Seale (Surface Treatment) (615)	Evonik Protectosil BHN(1222) Evonik Protectosil CIT (1222) Evonik Protectosil Chem-Trete 40 VOC (1222) Evonik Protectosil Aqua-Trete 40 (1222)
Fabrishield 840 (097)	

See Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 418 – Concrete Bridge Deck Sealants (Silane Surface Treatment of New Portland Cement Concrete).

DECK OVERLAY FRICTION SURFACE (EPOXY, CONCRETE)

TRIAL USE until December 31, 2017 Only

MoT Bridge acceptance of product's use is required prior to using any of the following products for a deck overlay friction surface application.

ACCEPTED PRODUCTS	
Euclid Flexolith (1010)	Kwik Bond Polyester Polymer Concrete (1127)
Dayton Pro-Poxy Type III DOT Bridge Deck Overlay System (1063)	

COATING SYSTEMS

The Cooperative Paint Testing Program (CPTP) is a cooperative testing process administered by the Provinces of Alberta and British Columbia to conduct testing on paint coatings to evaluate the products for acceptance on each Province's Product Lists for use as bridge coating systems.

To facilitate recent requests to have new products listed on each Province's CPTP product Lists, CPTP has completed a **second round** of lab testing for bridge coating products and the results are now updated in the following tables.

Manufactures/Suppliers may submit an expression of interest for future CPTP testing by emailing a request to RPL@gov.bc.ca and must indicate their interest to participate in lab and field testing at the above email address or by sending a letter of notification to the BC Government Ministry of Transportation and Infrastructure PO Box 9859 Stn. Prov. Gov, 4-D 940 Blanshard Street Victoria BC V8W 9T5 by **August 1st, 2017** to let CPTP know their company wishes to participate in the **Third Round** of testing. More information can be obtained by calling the RPL contact at 250-387-4360.

NOTE: Federal Environmental Regulations currently limit volatile organic compounds in paints and coatings. Recognized Coating Systems products will be subject to complying with these regulations.

BRIDGE STEEL

Bridge Steel Coating Colour Guideline per US Federal Specification 595b

	Steel Structure Colour Choices (Top Coat)	US Federal Spec. No. (595b)	DOH Colour	Application		Matching Railing Colour Choices
				Visible Areas	Under Decks	
1	Mid-Grey	16314		O.K.	Yes	4, 6, 10, 11, 12, 13, 15,
2	Light Grey	16515		Yes	Yes	4, 6, 10, 11, 12, 13, 14,
3	Light Blue (Sky)	15187	M-6	Yes	Yes	4, 10, 11, 12, 13, 14, 16
4	Mid-Blue (Lake)	15180		O.K.	Yes	2, 3, 10, 11, 12, 13, 14, 16
5	Dark Blue (Navy)	15065		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
6	Light Green (Grass)	14260		Yes	Yes	2, 6, 8, 10, 11, 12, 13, 14, 16
7	Mid-Green (Leaf)	14193		Yes	Yes	2, 6, 10, 11, 12, 13, 14, 16
8	Dark Green (Forest)	14090		O.K.	Yes	2, 6, 10, 11, 12, 16
9	Mid-Brown	10115		Yes	Yes	2, 3, 6, 10, 11, 12, 13, 14, 16
10	Yellow/Brown	10371		Yes	Yes	2, 3, 6, 13, 14, 16
11	Beige/Brown	12648		Yes	Yes	2, 3, 6, 9, 10, 11, 13, 14, 16
12	Orange (Highways)	12473		-No-	O.K.	2, 3, 6, 11, 12, 14, 16
13	Yellow	13538	T-2	-No-	-No-	N/A
14	Red	11310		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
15	White	17886	B-3, D-1, D-2, D-3, T-3	-No-	-No-	N/A
16	Silver (Aluminum)	17178		Yes.	Yes.	3, 6, 10, 11, 12, 13

**CPTP Recognized Products List for
BC Transportation and Infrastructure
Effective July30, 2012, First update April 1st 2015 and Second update July 1st 2017**

Manufacturer Contact	Generic System Type	System Component				Structure Type B						System Application
		Sealer	Primer	Midcoat	Topcoat	1	2	3	4	5	6	
Carboline 800 979-1226, 778 836-3320	Organic Zn / Epoxy/ Polyurethane	---	Carbozinc 859	Carboguard 825	Carbothane 133LH	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polyurethane	---	ClovaZinc 3	ClovaMastic 8312	Supershield 25000 Series	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polyurethane	---	83003 ClovaZinc 3	8315 ClovaGuard	839 Series Armourshield	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polyurethane	---	83007 ClovaZinc 7	8315 ClovaGuard	839 Series Armourshield	✓	✓	✓	✓	✓		SF2
Comex (800)383-8406 (303)618-7628	Organic Zn / Epoxy / Polyurethane		ZR-10 Organic Zinc	E-10 Epoxy	U-5000 W/B Polyurethane	✓	✓	✓	✓	✓		SF2
Comex (800)383-8406 (303)618-7628	Organic Zn / Epoxy / Polyurethane		ZR-10 Organic Zinc	E-10 Epoxy	U-10 Polyurethane	✓	✓	✓	✓	✓		SF2
Devoe Coatings (778) 838-4579 (780)465-3600	Organic Zn / Epoxy / Polyurethane	---	Cathacoat 315	Bar Rust 231	Devthane 349	✓	✓	✓	✓	✓		SF2
International Paint (604) 988- 7191	Organic Zn / Epoxy / Polyurethane	---	Interzinc 315B	Intergard 475HS	Interthane 870UHS	✓	✓	✓	✓	✓		SF2
PPG Amercoat Canada (760)701-0128	Organic Zn / Epoxy / Polyurethane		Amercoat 68HS	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SF2
Sherwin Williams (780) 454-7800 (604)253-5424	Organic Zn / Epoxy / Polyurethane	---	Zinc Clad III HS	Macropoxy 646 Fast Cure	Acrolon 218 HS Polyurethane	✓	✓	✓	✓	✓		SF2
Termarust Technologies (888) 279-5497	Organic Zn / Epoxy / Polyurethane	---	Termazinc 1100	Termapoxy 2330	Termathane 2400	✓	✓	✓	✓	✓		SF2
Carboline 800 979-1226, 778 836-3320	Organic Zn / Epoxy / Polyurethane	---	Carbozinc 859	-	Carbothane 133LH	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polyurethane	---	83003 ClovaZinc 3	-	839 Series Armourshield	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polyurethane	---	83007 ClovaZinc 7	-	839 Series Armourshield	✓	✓	✓	✓	✓		SF3
Sherwin Williams (780) 454-7800 (604)253-5424	Organic Zn / Epoxy / Polyurethane	---	Zinc Clad III HS	-	Fast Clad Urethane II	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polysiloxane	---	83003 ClovaZinc 3	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SF4
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Polysiloxane	---	83007 ClovaZinc 7	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SF4
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Acrylic Polysiloxane	---	ClovaZinc 3	ClovaMastic 83110	Cloverdale SiloxyCoat	✓	✓	✓	✓	✓		SF7
International Paint (604) 988- 7191	Organic Zn / Epoxy / Acrylic Polysiloxane	---	Interzinc 315B	Intergard 475HS	Interfine 878	✓	✓	✓	✓	✓		SF7
PPG Amercoat Canada (760)701-0128	Organic Zn / Epoxy / Polysiloxane	---	Amercoat 68HS	Amercoat 240	PSX 1001		✓	✓				SF7

**CPTP Recognized Products List for
BC Transportation and Infrastructure**

Effective July30, 2012, updated April 1st 2015 and second update July 1st 2017

Manufacturer Supplier	Generic Coating Type	System Component				Structure Type						System Application
		Sealer	Primer	Midcoat	Topcoat	1	2	3	4	5	6	
Watson Coatings Inc. (314) 521-2000	CaSulphonate Alkyd	---	---	---	AS8301	✓	✓	✓	✓	✓		SF8, SFO3, U1, SFTB
Martin Mathys (506) 653 8555	Waterborne Polymer		Noxyde		Noxyde	✓	✓	✓	✓	✓		SFO2, U3
Sherwin Williams (780) 454-7800 (604)253-5424	MCZn / MCU / MCU		-	Corothane 1 IronOx B	Corothane 1 IronOx A HS	✓	✓	✓	✓	✓		SFO3, U2
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Inorganic Zn / Epoxy / Polyurethane		83002 ClovaZinc 2	8315 ClovaMastic	839 Series Armourshield	✓	✓	✓	✓	✓		SS1
Devoe Coatings (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 235	Devthane 349	✓	✓	✓	✓	✓		SS1
PPG Amercoat Canada (760)701-0128	Inorganic Zn / Epoxy / Polyurethane		Dimetcote 302H	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SS1
Sherwin Williams (780) 454-7800 (604)253-5424	Inorganic Zn / Epoxy / Polyurethane		Zinc Clad ii Plus	Macropoxy 646 Fast Cure	Acrolon 218 HS	✓	✓	✓	✓	✓		SS1
Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Inorganic Zn / Polysiloxane		83002 ClovaZinc 2	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SS4
Comex (800)383-8406 (303)618-7628	Inorganic Zn / Polysiloxane		ZR-20 Inorg. Zn	-	X-10 Epoxy Polysiloxane	✓	✓	✓	✓	✓		SS4
PPG Amercoat Canada (760)701-0128	Inorganic Zn / Polysiloxane		Dimetcote 9H	-	PSX 700FD	✓	✓	✓	✓	✓		SS4

Structure/Application Type Table

Structure Type	Application Type	
B1 : Through / Pony Truss	Shop Application	Field Overcoat Application
B2 : Deck Truss	SS1 : IOZ-Epoxy-Polyurethane	SFO1 : Water Based Acrylics and Vinyls
B3 : Girder/River	SS2 : IOZ-Epoxy-Polysiloxane	SFO2 : Water Based Single Comp. O/C
B4 : Grade Separation	SS3 : IOZ-Polyurethane	SFO3 : Solvent Based Single Component
B5 : Rigid Frame Grade	SS4 : IOZ-Polysiloxane	SF04 : Solvent Based Surface Tolerance Epoxy
B6 : Partially Submerged Pipe	Field Application	SF05 : Alkyd No Longer Used
	SF1 : Metallizing-Epoxy-Polyurethane	SFO6 : Misc. Epoxy-Polyurethane
	SF2 : OZ-Epoxy-Polyurethane	SFO7 : Misc. Epoxy-Polysiloxane
	SF3 : OZ-Polyurethane	Touchup Systems
	SF4 : OZ-Polysiloxane	SFTA : Aerosol Rust Inhibitive Primer / Topcoat
	SF5 : Alkyd No Longer Used	SFTB : Brushable Rust Inhibitive Primer / Topcoat
	SF6 : Multi-Component Urethane For Future Use	Penetrating Sealers
	SF7 : OZ-Epoxy -Polysiloxane	SPS : Steel Penetrating Sealers
	SF8 : Calcium Sulphonate Systems for Steel	Steel Railings
	SF9 LG: Low gloss SF2 Systems	SRG : Steel Hot Dip Galvanizing
	SF10 LG: Low gloss SF3 Systems	SRM : Steel Metallizing
	SFIM1 : Coal Tar Epoxy or Equivalent For Future Use	Unique Applications
	SFIM2 : Other Immersion Coatings for Future Use	U1 : Enclosed Spaces-Protected areas
		U2 : Low Temperature High Humidity
		U3 Elastomeric Coatings

CPTP Recognized Products List

The table above lists all systems that are approved by British Columbia Ministry of Transportation and Infrastructure. Only these products may be used on their respective projects. **Note: CPTP Information updated below July 1st 2017 as indicated in red text.**

The table lists from the left, Manufacturers, Suppliers with contact information, Generic system types, and components of each system approved. On the right are the Structure Types the various coatings are approved for, and the System Application for which each coating is approved. Coatings may be specified simply by using the B1 – B6 structure types, or if a more specific coat choice is desired a System Application type will be specified. A coating system selection table is included below listing all coating systems applications and their respective coatings with notes for use.

COATING SYSTEM SELECTION TABLE

System Code	Application Area	Structural Environment	Coating System Primer - Midcoat - Topcoat
STRUCTURAL STEEL, SHOP APPLICATION SYSTEMS			
SS1	Steel, Shop 3 coat	Standard New Steel Coating for Moderate to Severe Service	Inorganic zinc, epoxy, polyurethane
SS2	Steel, Shop	Not Used	
SS3	Steel, Shop 2 coat	Moderate to Severe Service	Inorganic zinc, polyurethane
SS4	Steel, Shop 2 coat	Moderate to Severe Service	Inorganic zinc, Polysiloxane
STRUCTURAL STEEL, FIELD APPLICATION SYSTEMS			
SF1	Steel, Field 3 coat	Severe to Extreme Field Application	Metallizing, epoxy, polyurethane
SF2	Steel, Field 3 coat	Standard Field Recoat for Moderate to Severe Service with good gloss	Organic zinc, Epoxy, Polyurethane
SF3	Steel, Field 2 coat	Moderate to Severe Service	Organic zinc, Polyurethane
SF4	Steel, Field 2 coat	Moderate to Severe Service	Organic zinc, Polysiloxane
SF5	Steel, Field 4 coat	No Longer Used	Alkyd on steel
SF6	Steel Field 3 coat	Moderate to Severe Field Application	Multi-Component Urethane Systems
SF7	Steel Field 3 coat	Moderate to Severe Field Applications where good gloss retention is critical	Organic Zinc, Epoxy, Polysiloxane
SF8	Steel Field 2 coat	Moderate to Severe Service	
SFIM1	Steel Field, Immersion	For Future Use	Coal Tar Epoxy or Equivalent
SFIM2	Steel Field Immersion	For Future Use	Epoxy, Polyurethane or Polysiloxane
STRUCTURAL STEEL, FIELD OVERCOAT SYSTEMS			
SFO1	Steel, Field Overcoat	Moderate to severe	Water Based Acrylics and Vinyls
SFO2	Steel, Field Overcoat	Moderate to Severe	Water Based Single Component
SFO3	Steel, Field Overcoat	Moderate to Severe	Solvent Based Single Component
SFO4	Steel, Field Overcoat	Moderate to Severe	Solvent Based Surface Tolerant Epoxy

SFO5	Steel, Field Overcoat	No Longer Used	Alkyd on steel CAN/CGSB-1.59M alkyds
STRUCTURAL STEEL, TOUCHUP SYSTEMS			
SFTA	Steel, Field Touchup Aerosol	For Future Use	Rust Inhibitive Primer / Topcoat
SFTB	Steel, Field Touchup Brushable	Small Damaged Areas, or as a Holding Primer	Rust Inhibitive Primer / Topcoat
PENETRATING SEALERS			
SPS	Steel, Penetrating Sealers	Penetrating Sealers for Joints, Bolts, Rivets etc.	Various Unique Systems, Designed To Be Used With Coating Materials From The Same Manufacturer
PAINT CAULKING MATERIALS			
PCM	Paint Caulking Materials	For Sealing Laps and Small Areas	Assorted
UNIQUE SITUATIONS			
U1	Steel, Unique Products	Moderate	Rust Inhibitive Sealer / Topcoat
U2	Steel, Unique Products	Low Temperature, high humidity	Moisture Cured Organic Zinc / Midcoat / Topcoat
U3	Steel Elastomeric Coatings	For use where substrate requires flexibility	Various
STEEL RAILINGS			
SRG	Steel, Hot Dip Galvanizing	Preferred Treatment for Removable Railings See CAN/CSA –G164-M92 Specification	Hot Dip Galvanizing
SRM	Steel, Metallizing	Primarily for non-removable posts	Zinc - Zinc Aluminum Powder or Wire
WOOD			
WFR	Wood, Railings and Rub Rails	No Longer Used	Primer, Midcoat, Topcoat CAN/CGSB-1.59M alkyds
WFT	Wood Field Touchup	No Longer Used	Primer, Midcoat, Topcoat CAN/CGSB-1.59M alkyds
WF1	Oil Based Sealer – Wood Fencing	No Longer Used	
WF2	Water Based Coating for Wood Surfaces	For Future Use	

General Notes for Use ALL SYSTEMS:

- The surface to be coated shall meet SSPC- SP 12/NACE No. 5, NV-2 level immediately prior to coating
- There shall be no inter-mixing of paints/solvents from different manufacturers or between different systems from the same Manufacturer.
- All paints must bear the manufacturer's name and address, batch number, paint type, color code, and mixing and application instructions.

- All paints are subject to inspection and testing as specified by the Ministry Representative.
- Stripe coats shall be the midcoat material in 3 coat systems and the topcoat material in two or one coat systems unless specified otherwise.
- Surface preparation and application shall be as per the Manufacturer's up-to-date Product Data Sheet unless specified otherwise.

STRUCTURAL STEEL - SHOP APPLICATION

System – SS1

INORGANIC ZINC PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT

Ministry Usage: This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a severe field environment.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83002 ClovaZinc 2	8315 ClovaGuard	839 Series Armourshield
Devoe Coatings	(778) 838-4579 (780)465-3600		Cathacoat 302HB	Devran 261 QC	Devthane 349
PPG Amercoat Canada	780 701-0128		Dimetcote 302H	Amercoat 240	Amercoat 450H
Sherwin Williams	(780) 454-7800 (604)253-5424		Zince Clad III Plus	Macropoxy 645 Fast Cure Epoxy	Acrolon 218 HS Polyurethane

Notes for use:

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the mid-coat material.
- Inorganic Zinc must be both dry and cured before additional coatings are applied.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.

SYSTEM – SS3

INORGANIC ZINC PRIMER, POLYURETHANE TOPCOAT

Ministry Usage: This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a moderate to severe field environment.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
No Current Coatings					

Notes for use:

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the mid-coat material.
- Inorganic Zinc must be dry and cured before additional coatings are applied.
- A stripe coat is recommended for this system since film build is typically lower than a three coat system.

- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.

SYSTEM – SS4

INORGANIC ZINC PRIMER, POLYSILOXANE TOPCOAT

Ministry Usage: This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a moderate to severe field environment.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83002 ClovaZinc 2		83170 Series Polysiloxane
Comex	(800) 383-8406, (303) 618-7628		ZR-20 Inorganic. Zn		X-10 Epoxy Polysiloxane
PPG Amercoat Canada	780 701-0128		Dimetcote 9H		PSX 700FD

Notes for use:

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the midcoat or topcoat material.
- Inorganic Zinc must be both dry and cured before additional coatings are applied.
- A stripe coat is recommended for this system since film build is typically lower than a three-coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.

STRUCTURAL STEEL - FIELD APPLICATION

SYSTEM – SF1 FOR FUTURE USE

METALLIZING PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT

Ministry Usage: This system is designed for use in a field coating environment where extreme exposure areas such as splash zones, fence posts (panels should be hot dip galvanized where removable), bearings, expansion joints and any steel exposed to de-icing chemical solutions are present; or where structures are close to heavy industry.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

- Previously galvanized railings, fence posts, and panels are to be "Brush-off" cleaned and top-coated with a different colour than the structure, after a wash primer is applied.
- Metallizing can be either of using zinc or zinc:aluminum::85:15 alloy wire thermal spray, flame process or spray and fuse powder process.

SYSTEM – SF2

ORGANIC ZINC PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT

Ministry Usage: This is the most often used field coating system. The system is designed to be more forgiving of field application during cleaning, coating and curing. **The system will provide good service in a severe field environment. This system may also be shop applied. Service life is close to the SS1 system**

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Carboline	(800) 979-1226, (778) 836-3320	---	Carbozinc 859	Carboguard 825	Carbothane 133LH
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736		ClovaZinc 3	ClovaMastic 8312	Supershield 25000 Series
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83003 ClovaZinc 3	8315 ClovaGuard	839 Series Armourshield
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83007 ClovaZinc 7	8315 ClovaGuard	839 Series Armourshield
Comex	(800) 383-8406, (303) 618-7628	---	ZR-10 Organic Zinc	E-10 Epoxy	U-5000 W/B Polyurethane
Comex	(800) 383-8406, (303) 618-7628	---	ZR-10 Organic Zinc	E-10 Epoxy	U-10 Polyurethane
Devoe Coatings	(778) 838-4579 (780)465-3600		Cathacoat 315	Bar Rust 231	Devthane 349
International Paint	(604) 988- 7191		Interzinc 315B	Intergard 475HS	Interthane 870UHS
PPG Amercoat Canada	(780) 701-0128		Amercoat 68HS	Amercoat 240	Amercoat 450H
Sherwin Williams	(780) 454-7800 (604)253-5424		Zinc Clad III HS	Macropoxy 646 Fast Cure Epoxy	Acrolon 218 HS Polyurethane
Termarust Technologies	(888) 279-5497		Termazinc 1100	Termapoxy 2330	Termathane 2400

Notes for use: For low gloss topcoats see SF9LG systems

- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.

- This system may also be applied in the shop and shipped to the field to keep the number of different coatings on the structure to a minimum so as to simplify future coating rehabilitation.

SYSTEM – SF3

ORGANIC ZINC PRIMER, POLYURETHANE TOPCOAT

Ministry Usage: This system is designed for use in a field coating environment with moderate to severe exposure areas.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Carboline	800 979-1226, 778 836-3320	---	Carbozinc 859	---	Carbothane 133LH
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83003 ClovaZinc 3		839 Series Armourshield
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83007 ClovaZinc 7		839 Series Armourshield
Sherwin Williams	(780) 454-7800 (604)253-5424	---	Zinc Clad III HS	---	Fast Clad Urethane II

Notes for use:

- A stripe coat is recommended for this system since film build is typically lower than a three coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.

SYSTEM – SF4

ORGANIC ZINC PRIMER, POLYSILOXANE TOPCOAT

Ministry Usage: This system is designed for use in a field coating environment with moderate to severe exposure areas. This is the most often used field coating system.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83003 ClovaZinc 3		83170 Series Polysiloxane
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736	---	83007 ClovaZinc 7		83170 Series Polysiloxane

Notes for use:

- A stripe coat is recommended for this system since film build is typically lower than a three coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.
- For a low gloss product see SF10LG systems

SYSTEM – SF5 ALKYD NO LONGER USED

SYSTEM – SF6 FOR FUTURE USE

MULTI-COMPONENT URETHANE SYSTEMS

Ministry Usage: This system is designed for use in a field coating environment in moderate to severe exposure areas.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

SYSTEM – SF7

ORGANIC ZINC, EPOXY, POLYSILOXANE

Ministry Usage: This system is useful in severe field applications where good gloss retention is desired.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)596-1736		ClovaZinc 3	ClovaMastic 83110	Cloverdale SiloxyCoat
International Paint	(604) 988- 7191		Interzinc 315B	Intergard 475HS	Interfine 878
PPG Amercoat Canada	780 701-0128		Amercoat 68HS	Amercoat 240	PSX 1001

Notes for use:

- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.
- This system may also be applied in the shop and shipped to the field to keep the number of different coatings on the structure to a minimum so as to simplify future coating rehabilitation.

SYSTEM – SF8

CALCIUM SULPHONATE SYSTEMS FOR STEEL

Ministry Usage: This system is designed to use in situations where corrosion protection is desired and where high gloss is not as important. It is not for use in abrasive areas or where dirt retention is a problem.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

Notes for use:

- The penetrating sealer shall be used to penetrate and seal rusted areas and lap joints that cannot be properly cleaned. These are unique situations and Manufacturer's instructions shall be followed unless contradicted by the project specification.
- These products shall be used only with compatible products from the same manufacturer.
- Two full coats of the topcoat are recommended.
- This product is currently under field testing. Other field testing of similar generic products resulted in failing outcomes in the field testing.

SYSTEM – SF9LG

LOW GLOSS VERSION OF SF2 ORGANIC ZINC, EPOXY, POLYURETHANE

Ministry Usage: This system is designed for use in a field coating environment in moderate to severe exposure areas where low gloss is desired or gloss is not important.

MANUFACTURER	CONTACT	SEAL COAT	PRIMER	STRIPE COAT	MIDCOAT	TOPCOAT
Carboline	800 979-1226, 778 836-3320		Carbozinc 859	Carboguard 825	Carboguard 825	Carbothane 133LH

Notes for use:

- The urethane topcoat is low gloss, otherwise it is equivalent to the SF2 systems

SYSTEM – SF10LG

LOW GLOSS VERSION OF SF4 SYSTEMS

Ministry Usage: This system is designed for use in a field coating environment in moderate to severe exposure areas where low gloss is desired or gloss is not important.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
Carboline	Carbozinc 859		Carbothane 133LH			Carbothane 133LH

Notes for use:

- The urethane topcoat is low gloss, otherwise it is equivalent to the SF4 systems

SYSTEM – SFIM1 For Future Use

STRUCTURAL STEEL, FIELD IMMERSION - COAL TAR EPOXY OR EQUIVALENT

Ministry Usage: This system is designed for use in a field coating environment in immersion situations.

MANUFACTURER	PRIMER	SEAL COAT	STRIPECOAT	MIDCOAT	TOPCOAT
No Current Coating Systems					

SYSTEM – SFIM2 STRUCTURAL STEEL, FIELD IMMERSION

EPOXY PLUS POLYURETHANE OR POLYSILOXANE

Ministry Usage: This system is designed for use in a field coating environment in moderate immersion situations.

MANUFACTURER	PRIMER	SEAL COAT	STRIPECOAT	MIDCOAT	TOPCOAT
No Current Coating Systems					

STRUCTURAL STEEL – FIELD APPLICATION – OVERCOAT

SYSTEM – SFO1

WATER-BASED ACRYLIC OR VINYL SYSTEM

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools before repair and top coating. Sealcoat is optional but may be specified for sealing lap joints etc.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 nd MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

- These products are designed primarily for overcoating and encapsulating existing coatings.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This reduces the risk of overcoating.
- Manufacturer's instructions are used here because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level, before overcoating.

SYSTEM – SFO2

WATER- BASED SYSTEM SINGLE COMPONENT

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools before repair and top-coating.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Martin Mathys			Noxyde		Noxyde

Notes for use:

- These products are designed primarily for overcoating and encapsulating existing coatings.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This reduces the risk of overcoating.
- Manufacturer's instructions are used here because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level, before overcoating.
- Generally, the material lays better when sprayed, but is capable of being brushed and rolled.
- Finish is matte to semigloss.
- Current materials are waterborne.

SYSTEM – SFO3

SOLVENT- BASED SYSTEM SINGLE COMPONENT

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures. Lifetime of the coating is a function of the existing coating.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Sherwin Williams	(780) 454-7800 (604)253-5424		Corothane 1 Galvapak 1K	Corothane 1 IronOx B	Corothane 1 IronOx A HS
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

Notes for use:

- Use the **Watson product** with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- These products are designed primarily for overcoating and encapsulating existing coatings, but may also find use in Systems U1, and/or U2 as listed.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This testing would typically occur over a winter to stress the applied patch. This reduces the risk of overcoating.
- Manufacturer's instructions are used here unless superseded by the specification because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.

SYSTEM - SFO4

SOLVENT- BASED SURFACE TOLERANT EPOXY

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						
SURFACE PREPARATION Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal. Undamaged areas high pressure water wash						

Notes for use:

SYSTEM – SFO5 ALKYD ON STEEL NO LONGER USED

SYSTEM – SFO6

MISCELLANEOUS EPOXY-POLYURETHANE OVERCOATING SYSTEMS

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
No Current Coating Systems						
SURFACE PREPARATION Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal. Undamaged areas high pressure water wash						

SYSTEM – SFO7

MISCELLANEOUS EPOXY-POLYSILOXANE OVERCOATING SYSTEMS

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
No Current Coating Systems						
SURFACE PREPARATION Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal. Undamaged areas high pressure water wash						

SYSTEM - -PCM

STEEL, PAINT CAULKING MATERIALS

MoT Usage: These materials are designed to be used immediately under the topcoat material. They are compatible with most paint systems, but a test is recommended to ensure compatibility. They are used primarily to seal joints in steel structures to prevent the ingress of water in laps, splices etc. Manufacturer's instructions are followed for use. They are typically not designed for immersion service.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Tremco Mono (065)	Sikaflex 1A (188)

Notes for use:

- These materials are applied on the midcoat, and then coated with the final topcoat.
- Typically the top and sides of a plate are sealed and the bottom is not caulked to enable water to exit the crack if any gets in.
- All materials are subject to inspection and testing as specified by the Ministry Representative.

SYSTEM - SFTA FOR FUTURE USE

TOUCH-UP COATING SYSTEM, AEROSOL

Ministry Usage: This system is designed for quick touch-up use in a field overcoating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It is designed as a stopgap measure until proper maintenance coating can be scheduled.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						

SYSTEM - STFB

TOUCH-UP COATING SYSTEM, BRUSHABLE

SYSTEM SFTB SMALL DAMAGED AREAS OR AS A HOLDING PRIMER: BRUSHABLE PRODUCTS

Ministry Usage: This system is designed for brush application in a field touchup situation where the original alkyd system is intact and where loose rust/paint can be removed by hand/power tools

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
Cloverdale Paint		ClovaCorr 83183			ClovaCorr 83180	Cloverdale Paint
Termarust Technologies		Termarust 2200LV			TR 2100	Termarust Technologies
Watson Coatings Inc.		Armor-Shield 8201			Armor-Shield AS8301	Watson Coatings Inc.

Notes for use:

- Use the Cloverdale, Termarust or Watson products with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- Manufacturer's instructions are used here unless superseded by the specification because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.
- These coatings are not designed for use on faying surfaces.
- All coatings will work better on a properly prepared surface ie. High pressure water washed and/or Sandblasted.
- All paints are subject to inspection and testing as specified by the Ministry Representative.

SYSTEM - SPS**STEEL, PENETRATING SEALERS**

Ministry Usage: These products are designed for use in the field to help seal joints, pack rusted areas riveted and bolted area, and generally any area where a product that will wick into any small cracks and crevices to help seal them. These products must be topcoated as most are epoxy based and will not provide good service in exterior sunlight.

MANUFACTURER	PRIMER	SEALCOAT	STRIPECOAT	MIDCOAT	TOPCOAT
Carboline		Rust Bond			As per Manufacturer's Instructions
ICI-Devoe		Preprime 167			
Ameron		Amerlock Sealer			
Cloverdale		Chemotex 5200			
International Paint		Interbond 600			
Micron Camcoat		AS8204			
Termarust		Termarust 2200LV			
Wasser		Prepbond			

Notes for use:

- Individual products shall be used only with compatible products from the same manufacturer.
- It is important to apply these products exactly as the Manufacturer states since they do not tolerate over-thickness well.
- When used as part of a coating system, these products shall be applied after the primer coat, before the stripe and midcoats. This is to take greatest advantage of the sacrificial primer which must be in electrical contact with the steel to be most effective.

SYSTEM - U1

STEEL, UNIQUE SITUATIONS, ENCLOSED SPACES AND PROTECTED AREAS

MODERATE TO SEVERE CONDITIONS, NON-IMMERSION STEEL ONLY

ENCLOSED SPACES AND PROTECTED AREAS

Ministry Usage: This system is designed to use in situations where corrosion protection is desired and where high gloss is not as important. It is not for use in abrasive areas or where dirt retention is a problem.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

Notes for use:

- Use the product with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be easily damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- This product is designed primarily for overcoating, encapsulating existing coatings and sealing leaking steel plate joints.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This testing would typically occur over a winter to stress the applied patch. This reduces the risk of overcoating.
- When overcoating, the areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.

SYSTEM – U2

LOW TEMPERATURE / HIGH HUMIDITY

Ministry Usage: This system is designed to use in situations where low temperature and /or high humidity may preclude the use of other coating systems.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Sherwin Williams	(780) 454-7800 (604)253-5424		Corothane I Galvapak 1K	Corothane 1 IronOx B	Corothane 1 IronOx A HS

Notes for use:

- The Sherwin Williams system is moisture cured; the entire can should be used at once to prevent reaction of the coating in the can from contact with atmospheric moisture.
- The Sherwin Williams system above may also be used at normal coating temperatures and humidity. Since it is cured by atmospheric moisture, it shall not be used in areas of low relative humidity, as this may affect cure and/or gloss.

SYSTEM U3

ELASTOMERIC COATINGS

Ministry Usage: This system is designed to use in situations where a coating with some flexibility is desired; such as sealing cables, bridging small active cracks and similar applications.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Martin Mathys			Noxyde		Noxyde

Notes for use:

- Generally, the material lays better when sprayed, but is capable of being brushed and rolled.
- Finish is matte to semigloss.
- Current materials are waterborne.

SYSTEM – SRG

RAILINGS – HOT DIP GALVANIZING

Ministry Usage: This system is designed for use where small parts such as railing can be removed and sent to the galvanizing plant.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
This category has been replaced by CAN/CSA-G164-M92, "Hot Dip Galvanizing of Irregularly Shaped Articles"						

Notes for use:

- This is the preferred treatment for rails as it provides a very long life combined with low maintenance.
- The colour is grey.
- If colour is required, then the surface shall be cleaned and surface roughened as per SSPC SP 16, then coated with a compatible coating.
- Sections with closed tubes are not able to be hot dipped without relieving the tubes by drilling holes to let the hot gases escape. This must be designed into the item.
- Both the inside and outside of sections are coated with zinc.
- Defects include inclusions, dross, runs and mottling.

SYSTEM - SRM

RAILINGS AND POSTS – METALLIZING

Ministry Usage: This system is used primarily to coat steel fence posts that cannot be easily removed from a structure. It can however be used to coat any structural element in place. For elements which can be removed, hot dip galvanizing is the preferred treatment.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
NON-REMOVABLE HANDRAIL SECTIONS						ZINC or Zn/Al Alloy

Notes for use:

- Zinc or zinc/aluminum - 85/15 wire or powder shall be used. This material is available from a number of different manufacturers and if metallurgically pure, will provide equivalent service.
- All materials are subject to inspection and testing as specified by the Ministry Representative.
- The surface to be coated shall meet SSPC- SP 12/NACE No. 5, NV-2 level immediately prior to coating.
- If surface preparation standards are maintained, this work may proceed at virtually any temperature.
- This coating may be overcoated to extend lifetime or to provide a colour coat for aesthetic reasons. Any of the SF2 systems without the primer will work well, but since the metalizing is very porous, a thinned mist coat of midcoat material may be necessary to prevent bubbling in the applied coating.

FIELD APPLICATION – WOOD

SYSTEM – WFR for Future Use

WOOD RAILINGS AND RUBRAILS

Ministry Usage: This system is designed for use in a field over coating situation for wooden railings and rub rails where the original alkyd system is intact or loose paint can be removed by hand/power tools.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

SYSTEM – WFT for Future Use

TOUCHUP ON WOOD STRUCTURES

Ministry Usage: This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose paint can be removed by hand/power tools.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

SYSTEM WF1 – OIL BASED SEALER – WOOD FENCING No Longer Used

SYSTEM WF2 – WATER BASED COATING FOR WOODEN FENCING For Future Use

Bridge Steel Coating Colour Guideline Per US Federal Specification 595b

	Steel Structure Colour Choices (Top Coat)	US Federal Spec. No. (595b)	DOH Colour	Application		Matching Railing Colour Choices
				Visible Areas	Under Decks	
1	Mid-Grey	16314		O.K.	Yes	4, 6, 10, 11, 12, 13, 15,
2	Light Grey	16515		Yes	Yes	4, 6, 10, 11, 12, 13, 14,
3	Light Blue (Sky)	15187	M-6	Yes	Yes	4, 10, 11, 12, 13, 14, 16
4	Mid-Blue (Lake)	15180		O.K.	Yes	2, 3, 10, 11, 12, 13, 14, 16
5	Dark Blue (Navy)	15065		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
6	Light Green (Grass)	14260		Yes	Yes	2, 6, 8, 10, 11, 12, 13, 14, 16
7	Mid-Green (Leaf)	14193		Yes	Yes	2, 6, 10, 11, 12, 13, 14, 16
8	Dark Green (Forest)	14090		O.K.	Yes	2, 6, 10, 11, 12, 16
9	Mid-Brown	10115		Yes	Yes	2, 3, 6, 10, 11, 12, 13, 14, 16
10	Yellow/Brown	10371		Yes	Yes	2, 3, 6, 13, 14, 16
11	Beige/Brown	12648		Yes	Yes	2, 3, 6, 9, 10, 11, 13, 14, 16
12	Orange (Highways)	12473		-No-	O.K.	2, 3, 6, 11, 12, 14, 16
13	Yellow	13538		-No-	-No-	N/A
14	Red	11310		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
15	White	17886	B-3, D-2, D-3, T-2	-No-	-No-	N/A
16	Silver (Aluminum)	17178		Yes.	Yes.	3, 6, 10, 11, 12, 13

ADDITIONAL PAINT COATINGS

ZINC-RICH TOUCHUP PAINT AND PRIMERS

This category identifies zinc rich coatings other than the Coating Systems Listings for use covering added steel surfaces, damaged surfaces of galvanized or metalized steel, and welds requiring a coating to protect/touch up the exposed surface against rust. They may or may not be overcoated depending on the application.

ACCEPTED PRODUCTS	
Zinga	ZRC Cold Galvanizing Repair Compound
ZRC Galvilitite	Galvacon GC-243 by Lanco

Notes for Use:

- Existing galvanizing must be checked for chromate or another inhibitor contamination on the surface after surface preparation. If present the contamination must be removed prior to overcoating
- Overcoating material must be compatible with the newly painted zinc surface. See the Manufacturer's product data sheets for recommended coating types prior to overcoating.
- Since overcoating produces a mixed (more than one Manufacturer) coating system, some overcoat paint Manufacturers may not recommend use, or guarantee the result of some touchup products. A letter from the overcoat manufacturer stating that the touchup paint and the overcoat paint are compatible is required prior to application.
- These products contain metallic zinc and therefore require frequent stirring to prevent the zinc from settling.

DE-ICING, ANTI-ICING, CHEMICALS DUST PALLIATIVES

MoT Standard Specifications for Highway Construction Section 991 Calcium Chloride and Sodium Chloride shall apply for

Calcium Chloride - CGSB 15.1-92

Sodium Chloride - CGSB 15.9-92

Note: CGSB Specifications are obtainable from
 Canadian Government Specification Board
 Ottawa, Ontario K1A 0S5
<http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

Products listed on the Pacific Northwest Snow (PNS) fighter's qualified product's list are accepted for use.

ACCEPTED DE-ICING AND ANTI-ICING	ACCEPTED CHEMICALS
Ice-Stop (130)	Calcium Chloride (328)
Freezgard System (552-554)	Calcium Magnesium Acetate (CMA) (098)
Vanscoy (standard and compacted grade) - formerly Nu-Salt (153)	Sodium Formate (099)
Freezgard Magnesium Chloride (552)	Sodium Chloride *Salt (101)
Beet 55 (Geo Melt 55) (1155) Anti-Icing	Envirotech Services - Apex Meltdown (1249)
	Tiger Calcium Road Guard Plus (1268)

DUST PALLIATIVES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Freezgard Magnesium Chloride (552)	Sodium Lignosulphonate (103)
Calcium Chloride (328)	Milligan Road Dust Suppressant RDS (1122)
Calcium Lignosulphonate (102)	Tiger Calcium Gold 35% (1268)

TRIAL ONLY DUST PALLIATIVE PRODUCTS UNDER REVIEW FOR INFORMATION

The following Dust Products are listed as trial only on roadways within the Province under Ministry jurisdiction. Results of trial products are to be submitted to RPL@gov.bc.ca by the end of 2018 for listing evaluation.

Any product without results will be dropped off the Trial Only Products section.

Trial information needs to include the Ministry's Area Manager Contact info where the trial was allowed and took place with their evaluation of the trial.

FOR TRIAL ONLY PRODUCTS	FOR TRIAL ONLY PRODUCTS
DuraBlend (1283) Trial to Dec 2017	

DRAINAGE/STORMWATER MANAGEMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
StormFilter (819)	Vortechs (1044)
Interceptor A67 (825)	Atlantis (1084)
Stormtech Chambers (845)	Hydro International Downstream Defender (1101)
EMCO Raintank Systems (852)	Contech Construction - CDS Technologies (1107)
Enviro Liner 6000 (910)	Langley Concrete Group Stormsceptor (1120)
Aco (1004)	Langley Concrete Group Jellyfish (1120)
ACO Drain Systems (1004)	
ACO StormBrixx (1004)	Momentum Environmental Preserver (1275)

DRAINAGE PIPES

CONCRETE PIPES and BOX CULVERTS

A concrete product under this category must meet CSA A257 and/or ASSHTO M273 requirements for concrete pipe.

Quality Control must meet CSA and/or American Concrete Pipe Association requirements.

Box Culverts must be designed and engineered to meet the structural requirements for site loading and the specific drainage application.

ACCEPTED MANUFACTURERS	
Langley Concrete Group (1120)	Ocean Pipe (1293)
Leko Precast Ltd (1266)	

CORRUGATED STEEL PIPE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction - Section 320, qualifies under this section.

ACCEPTED MANUFACTURERS	CSA G 401 -14 Plant Certification required after Aug 1 2017
Armtec (949)	CSA G 401-14 -
Atlantic Industries (1036)	CSA G 401-14 Certification CWB May 20, 2019
Canada Culvert (1156)	CSA G 401-14 -

FIBRE REINFORCED DRAINAGE PIPE

A product must meet the requirements of the Ministry of Transportation and Infrastructure - Standard Specifications for Highway Construction and Bridge Standards.

ACCEPTED MANUFACTURERS	ACCEPTED MANUFACTURERS
FRP Bridge Drain Pipe (1256)	

PLASTIC PIPE

P.E. (POLY ETHYLENE)

P.E. Plastic Drainage Pipe - Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Section 317 under this heading, qualifies under this section. Application of P.E. as specified in Special Provisions.

REINFORCED HD POLYETHYLENE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Boss 2000 (377)	Hancor Sure-Lok HDPE (748)
Weholite (618)	Soleno HDPE Pipe (767)
ADS/Hancor N-12 Pipe (632)	Contech DuroMaxx Pipe (821)

P.V.C. (POLY VINYL CHLORIDE)

PVC Plastic Drainage Pipe - Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Section 318 under the same heading, qualifies under this section. Application of PVC as specified in Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Contech A2 Liner Pipe (821)	IPEX Ultra-Rib (944)
PVC Pipe (Flex-Lox) (533) name changed to Royal SDR 35 (533)	Royal Cobra Lock System (926) Speciality Application pipe in casing
IPEX Ring-Tite (886)	IPEX Perma-Loc (945) product changed to IPEX ULTRA 2X (945)
Royal KorFlo (926)	

P.P. (POLY PROPYLENE)

P.P. Plastic Drainage Pipe - Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Draft Section 319 under the same heading, qualifies under this section. At this time, Section 319 is only available as a draft as specified in Special Provisions. Application of P.P. is as specified in Special Provisions.

Specialty Application

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
ADS Hancor SaniTite HP Sewer Pipe (1182)	

OTHER DRAINAGE PIPE APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AGRU Pipes and Liners (207)	Solflo single (724)
Slotted Drain C.S.P. (231)	Solflo Max (724)
	ACO Power Drain S100K (924)

FITTINGS AND END TREATMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Culvert Debris Deflector (187)	PRO-ECO-LTE Structural Headwall (718)
A.B.C. 3 X 3 Brown Water tube (710)	Agas Discharge Tube (829)

SHAPES, UTILITY SPACERS & FITTINGS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RACI - Spacers (Insulators) (206)	
ADS Flared (Polythene) End Sections (634)	

OTHER PIPE APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Royal Pipe PVC Conduit (926) PVC Conduit must meet applicable standards and accepted electrical applications.	

ELECTRICAL EQUIPMENT – APL0106

Please quote the above number when making a request to the Ministry on this section.

All electrical equipment must be approved by a certification agency that has been recognized by the Standards Council of Canada, except for some Class 2 devices as permitted under BC Electrical Code Regulation, Rule 16-222. [Electrical Information Bulletin: Approved Certification Marks for Electrical Products](#) provides some additional information regarding recognized marks and certification bodies.

Note: The following is a list of suppliers and their product(s) accepted to supply the Ministry of Transportation and Infrastructure; and all products must meet all code requirements.

GENERAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Circuit Breakers	Square 'D'	QO	n/a
2	Size 1 - 4 pole lighting contactors	Westinghouse	A202KIDA	n/a
	2 – 12 Pole Lighting Contactors	Square D	. Class 8903	Dec 2014
3	Flasher Unit	Electro Systems	TFF-12	n/a
4	Photocells	Precision Multiple Controls Inc.	ECDV-AP (105-285V)	n/a
5	Photocells Receptacles	American Electric	RECEP G OLD J50	n/a
6	Padlocks	Associated Lock	AS-HWY-1	n/a

7	Banner Hangers	Kalamazoo Banner Works	Bannerflex D3	April 2014
8	End Mount Plumbizer	Econolite Canada	C00641P001 c/w Kit no. SE-3045	n/a
9		Electromega		Apr/2006
10	Wire Sentry	Trans Canada Traffic Inc.		Apr/2011
11	Pole Lighting Equipment	Square 2D	Class 8903	Jan/2015

LIGHTING EQUIPMENT LUMINAIRES & ACCESSORIES, AND PEDESTRIAN TUNNEL LUMINAIRES

ROADWAY LUMINAIRES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
	Roadway Luminaires			
1	150W HPS Roadway Luminaire with flat glass lens (120V) 315 15S CA TT1 R2 FG M2 CS NR EC HP	American Electric Lighting	MoTH-SC314-00656	Update July 2011
2	250W HPS Roadway Luminaire with flat glass lens (120V) 325 25S CA TT1 R3 FG M2 CS NR EC HP	American Electric Lighting	MoTH-SC326-00659	Update July 2011
3	400W HPS Roadway Luminaire with flat glass lens (120V) 325 40S CA TT1 R3 FG M2 CS NR EC HP	American Electric Lighting	MoTH-SC326-00596	Update July 2011
4	150W HPS Roadway Luminaire with flat glass lens (120V), Photometric file: OVF1S2D.IES	Cooper	MoTH-OVF15 IIMC	Aug-98
5	250W HPS Roadway Luminaire with flat glass lens (120V) Photometric file: OVF2S2D.IES or OVF2S3D.IES	Cooper	MoTH-OVF25S IIMC	Aug-98
6	400W HPS Roadway Luminaire with flat glass lens (120V) Photometric file: OVF4S2D.IES	Cooper	MoTH-OFV40S IIMC	Aug-98
7	150W HPS Roadway Luminaires with flat glass lens (120v) M400A Photometric file: 98081903.IES	GE	MoTH-MDCL15S 1A 1 2 F MC2 1 11 6 c/w Encapsulated Starting Aid	Aug-98
8	250W HPS Roadway Luminaires with flat glass lens (120v) M400A Photometric file: GE1006.IES	GE	MoTH-MDCL 25S 1A 1 2 F MC3 1 1 16 c/w Encapsulated Starting Aid	Aug-98
9	400W HPS Roadway Luminaires with flat glass lens (120V) M400A Photometric file: 98040209.IES	GE	MoTH-MDCL 40S 1A 1 2 F MC3 1 2 84 c/w Encapsulated Starting Aid	Aug-98

LED ROADWAY LUMINAIRES – DIRECT REPLACEMENT*

NO.	PRODUCT	MANUFACTURER	MODEL NO.	Dist. Type	APPROVAL DATE
1	LED Roadway Luminaire – Replaces 150W HPS	American Electric Lighting	ATBM D XXXXX R2	2	Sep 6, 2017
			ATBM D XXXXX R3	3	
		Philips	RFM-108W48LED4K-T-R2S	2	Oct. 29, 2015
			RFM-108W48LED4K-T-R3S	3	
		Eaton	VERD-A02-E-U-T2-AP	2	Dec 1, 2015
			VERD-G-A028-E-U-T3-AP	3	
		LED Roadway Lighting	NXT-48M-600mA-2ES-4000K	2	Dec 1, 2015
			NXT-48M-525mA-3LB-4000K	3	
General Electric	ERLH-X-10-B3-40-D-GRAY-R	2	June 27, 2017		
	ERLH-X-11-C3-40-D-GRAY-R	3			
2	LED Roadway Luminaire – Replaces 250W HPS	American Electric Lighting	ATBM F XXXXX R2	2	Sep 6, 2017
			ATBM F XXXXX R3	3	
		Philips	RFM-160W48LED4K-T-R2M	2	Oct. 29, 2015
			RFM-160W48LED4K-T-R3M	3	
		Eaton	NVN-AE-03-E-U-T2-10K-AP	2	Dec 1, 2015
			NVN-AE-03-E-U-T3R-10K-AP	3	

		LED Roadway Lighting	NXT-72M-700mA-2ES-4000K	2	Dec 1, 2015
			NXT-72M-600mA-3LB-4000K	3	
		General Electric	ERL2-X-16-B3-40-D-GRAY-R	2	June 27, 2017
			ERL2-X-18-C3-40-D-GRAY-R	3	
3	LED Roadway Luminaire – Replaces 400W HPS	American Electric Lighting	ATBL E XXXXX R2	2	Sep 6, 2017
			ATBL G XXXXX R3	3	
		Philips	(No Type 2 Available)	2	Oct. 29, 2015
			RFL-241W112LED4K-T-R3M	3	
		Eaton	NVN-AE-05-E-U-T2-10K-AP	2	Dec 1, 2015
			NVN-AE-05-E-U-SL3-10K-AP	3	
		General Electric	(No Type 2 Available)	2	June 27, 2017
			ERL2-X-30-C3-40-D-GRAY-R	3	

*The listed products may be used as a replacement for HPS fixtures of the noted wattage. LED and HPS fixtures must not be mixed at intersections or any continuous lighting installation. Please see Technical Bulletin TE-2015-02 located at: http://www.th.gov.bc.ca/publications/eng_publications/TE_Bulletins/TE_bulletins.htm.

WALLMOUNT LUMINAIRES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
10	150W HPS Wall Mount Luminaires (120V)	T&B	WP3G15S4-BCT	Apr-93
11	150W Full Cut-Off Post Top Luminaire (120V)	Contura	CTP17-P26-2XL-150HPS-120-NP-POLY Options: HS (house side shield) and PCR (photo-cell receptacle) may be appended to the model number as required	Jan 2012

LUMINIARE ACCESSORIES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
12	Glare shield for 150W Roadway Luminaires	T&B	55754	Apr-93
13	Glare shield for 150W Roadway Luminaires	GE	ELS-M2A	Jun-95
14	Glare shields for 250/400W Roadway Luminaires	T&B	55755	Apr-93
15	Glare shields for 250/400W Roadway Luminaires	GE	ELS-M4A	Jun-95
16	HID Lamps	Phillips		Mar-96
17	HID Lamps	Osram-Sylvania		Mar-96
18	HID Lamps	GE Lighting		Mar-96
19	HID Lamps	Standard – Eye Sunlux HPS		Jan-2003
20	HID Lamps	Plusrite		Jan 2012

PEDESTRIAN TUNNEL LUMINAIRES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
21	70W HPS Wall/Ceiling Mount	Valid Manufacturing	TLF0001	June 2010

SIGN LUMINAIRES & ACCESSORIES

NO.	PRODUCT	AIMING ANGLE	ARM LENGTH (MM)	APPLICATION NOTES	MANUFACTURER	MODEL NO.	APPR. DATE
	Sign Luminaires						

1	Type A 100W HPS Sign Luminaires (120V). Photometric file: xxxxx.IES, Tilt=60 in AGI, Tilt fixture 30	30	1200	Use for 1.8m x 3.0m signs or smaller	Holophane	Predator, MoTH-PD100HP12KW4G	Apr-93
2	Type A 100W HPS Sign Luminaires (120V). Photometric file: GE8372.IES, Tilt=0 in AGI, Tilt fixture 0	0	1200	Use for 1.8m x 3.0m signs or smaller	GE Lighting	Versaflood II Signliter MOTH-V2FS10S1M1PSN4GRP c/w 5m of 14/3 SOW and Encapsulated Starting Aid	Nov-98
3	Type A 100W HPS Sign Luminaires (120V). Photometric file: 1972B.IES, Tilt=60 degrees using AGI, Tilt fixture 0	0	1200	Use for 1.8m x 3.0m signs or smaller	Metrolux (Div of Quality Lighting)	SignMaster Series, MoTH SI-17F-HPS100-(60)-120-LG-SF-QD-RTP- NL	Oct-98
4	Type A 175W MV Sign Luminaires (120V). Photometric file: 36366.IES, Tilt=60 in AGI, Tilt fixture 30	30	1200	Use for 1.8m x 3.0m signs or smaller	Holophane	Predator, MoTH-PD175MV12KW4G	Jun-96
5	Type A 175W MV Sign Luminaires (120V). Photometric file: GE8374.IES, Tilt=0 in AGI, Tilt fixture 0	0	1200	MacGrid WG / KG Series	GE Lighting	Versaflood II Signliter MOTH-V2FS17M1A1PSN4GRP c/w 5m of 14/3 SOW and Encapsulated Starting Aid	Nov-98
6	Type A 175W MV Sign Luminaires (120V). Photometric file: 1972B.IES, Tilt=60 in AGI, Tilt fixture 0	0	1200	Use for 1.8m x 3.0m signs or smaller	Metrolux (Div of Quality Lighting)	SignMaster Series, MoTH SI-17F-MV175-(60)-120-LG-SF-QD-RTP- NL	Oct-98
7	Type A 250W MV Sign Luminaires (120V). Photometric file: 40896.IES, Tilt=0 in AGI, Tilt fixture 0	0	1600	Use for signs higher than 2.4m	Holophane	Sign-Vue II, MoTH-SNVW250WMVOOXD	Oct-98
8	Type A 250W MV Sign Luminaires (120V). Photometric file: 37223.IES, Tilt=60 in AGI, Tilt fixture 30	30	1600	Use for signs higher than 2.4m	Holophane	Predator, MoTH-PF250MV12KS4G	Nov-98
9	Type A 250W MV Sign Luminaires (120V). Photometric file: GE5506.IES, Tilt=0 in AGI, Tilt fixture 0	0	1600	Use for signs higher than 2.4m	GE Lighting	Versaflood II Signliter MOTH-V2FS25M1A1PSN3GRP c/w 5m of 14/3 SOW and Encapsulated Starting Aid	Nov-98
10	Type A 250W MV Sign Luminaires (120V). Photometric file: 1972A.IES Tilt=60 in AGI, Tilt fixture 0	0	1600	Use for signs higher than 2.4m	Metrolux (Div of Quality Lighting)	SignMaster Series, MoTH SI-17F-MV250-(60)-120-LG-SF-QD-RTP- NL	Oct-98
11	Type B 250W MV Sign Luminaires (120V). Photometric file: 37163.IES, Tilt=90 in AGI, Tilt fixture 0	0	1600	Use for signs wider than 3.0m and 2.4m high or less	Holophane	Panel-Vue, MoTH-PAN250MH12NTG	Apr-93
NO.	PRODUCT	AIMING ANGLE	ARM LENGTH (MM)	APPLICATION NOTES	MANUFACTURER	MODEL NO.	APPR. DATE
12	Type B 250W MV Sign Luminaires (120V). Photometric file: 37224.IES, Tilt=55 in AGI, Tilt fixture 35	35	1600	Use for signs wider than 3.0m and 2.4m high or less	Holophane	Predator, MoTH-PF250MV12NGR	Nov-98

MARINE LIGHTING

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Bridge Structure/Pier flood lighting	General Electric	EWS3 Series*	Feb 2018
		Hazlux	FDL Series*	Feb 2018
		Holophane	Predator Series*	Feb 2018
2	Navigation or Hazard marker light	Hazlux	DL010EUNSR5CxETI6	Feb 2018

*Note: Colour temperature shall be 4000k or 5000k

POLE STRUCTURES

ELECTRICAL EQUIPMENT – APL0106 > POLE STRUCTURES

All frangible and breakaway pole structures must meet the crash test requirements of NCHRP Report 350 Test Level 3.

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Steel traffic signal, Luminaire, and Sign poles	Nova Pole International	Electrical & Signing Materials Standard Specification	Apr 1995
		Valmont West Coast Engineering	Electrical & Signing Materials Standard Specification	Jan 1995
		Polecomm Manufacturing Ltd.	Electrical & Signing Materials Standard Specification	Nov 2011
		Thomas & Betts / Millerbend Manufacturing	Electrical & Signing Materials Standard Specification	Sep 2009
2	Frangible Aluminum Bases	Valmont West Coast Engineering	CS-300 ¹	Apr 2016
		Nova Pole International (Akron)	TB6-9	Jun 2016

Note 1

¹The wind load design for the CS 300 frangible aluminum base shall be based on an ultimate moment capacity for the base of 34.8 kN-m. The CS-300 frangible base shall not be used for the 8.5 metre Type 2 shaft in combination with the Type 2C luminaire arm in geographic locations where the 25 year hourly mean wind pressure exceeds 580 Pa. All other standard configurations of Type 2 6.5m and 8.5m shafts and luminaire arms are acceptable in all areas of the province. (Hourly mean wind pressures are given in CSA S6-14, Canadian Highway Bridge Design Code - Table A3.1.1).

3	Breakaway Base – Luminaire Pole (Type 2-6.5 & 8.0mm 280mm BCD)	Safety Base Ltd.	CS Coupler/ RP2C /Reaction Plate/S3C Shroud	Sept-05
		Transpo Pole Break Safe		Sept. 2009
4	Breakaway Base – Luminaire Pole (Type 2 – 11.0 m 12" BCD)	Safety Base Ltd.		
		Transpo Pole Safe		July 2009
5	Breakaway Base – Luminaire Pole (Type 1 or 3 16" BCD)	Safety Base Ltd.		n/a
		Transpo Pole Safe		July 2009
6	Breakaway Sign Structures	Nova Pole International		Apr-95
		West Coast Engineering Ltd.		Apr-95
		H & H Welding		Apr-95
		Safety Base Ltd.		Sept 05
7	Barrier Stands	Nova Pole International		Apr-95
		Valmont West Coast Engineering.		Apr-95
		Brenco Industries		Oct-96
		H & H Welding		Apr-95
8	Sign Bridge and Cantilever Sign Support Structures	Nova Pole International		
		Valmont West Coast Engineering.		Jun-95
		Valmont Industries		Jan-97
9	Highmast Pole	Nova Pole International		Jan-97
		Valmont West Coast Engineering.		Jan-97
		Valmont Industries		Jan-97
		Millerbernd Manufact. (981) Accepted		Jan 07
		Polecom Manufacturing Inc		Nov 17
10	Electrical Systems for Highmast Poles	Valid Manufacturing		Jan-97
		West Coast Electric Ltd.		Jan-97

		Sigma Technologies		Jan-97
		Millerbernd Manufact. (981) Accepted		Jan 07
11	Winches, Steel Cables, Head End Assembly and Drive Units for Highmast Poles	CU Phosco Lighting Limited		Jun-96
		Millerbernd Manufact. (981)-Accepted		Jan 07
12	Pole Arm Vibration Damper	Valmont West Coast Engineering	Mitigator TR1	Sep 2017

POWDER COAT APPLICATORS

NO.	PRODUCT	SUPPLIER	MODEL NO.	APPROVAL DATE
1	Altech Custom Coaters	Burnaby, B.C.		6-Aug-96
2	Hudson Plating	West 5 th – Vancouver, BC		6-Aug-96
3	Linex Industries Ltd.	Delta, B.C.		6-Aug-96
4	McCain Traffic Supply	Vista, California		6-Aug-96
5	Protek Powder Coating Ltd.	Kelowna, B.C.		6-Aug-96
6	Wesgar Industries	Port Coquitlam, B.C.		6-Aug-96
7	ABC Electro Powdercoating	Port Hope, Ontario		9-Sep-96
8	Automatic Coating Ltd.	Scarborough, Ontario		26-Aug-96
9	Ducan Powder Coating	Duncan, B.C.		20-Aug-96
10	Island Powder Coating	Victoria, B.C.		15-Jan-96
11	White Powder Coating	Surrey, BC		29-Jan-2013

POWDER COAT PRODUCTS

This document contains a list of suppliers and their product(s) who have successfully been pre-approved to supply the Ministry of Transportation and Infrastructure.

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Polyester(TGIC)	Protech		
2	Polyester(TGIC)	Fuller-O'Brien		
3	Polyester(TGIC)	Cardinal		

GALVANIZING COATING (COLD)

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Cold Galvanizing Coating	Aerovoe Industries, Inc	Crown 7007	March 1, 2017
2				
3				

SERVICE EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	30A-120/240 V, Single Phase Service Panels	Valid Manufacturing	HWYSP8	May-94
2	30A, and 100A,120/240 V Single Phase Service Panel	Valid Manufacturing	HWYSP12	Dec 10
3	30 A and 100A-120/240 V, Single Phase Service/Distribution Panels	Valid Manufacturing	HWYSP16	May-94
		West Coast Electric Ltd		Jan-96
4	100A-120/240 V, 1 Ø Service Disconnect Panels	Valid Manufacturing	HWYSD	May-1994
		.A C Dandy	D-HWYSD	Sep-2017
5	30A, and 100A 120/240 Single Phase	Valid Manufacturing	HWYSMC12-D-3/10W	Feb 2017

	Combination Meter and Service Panel with window	A C Dandy	D-HWYSMC12-D-3/10W	Sep-2017
6	100A-120/208 V, 3 Single Phase Service/Distribution Panels	Valid Manufacturing West Coast Electric Ltd.	HWYSP3	May-94 Jan-96
7	100A 120/240 Single Phase External Meter & Service Panel	Valid Manufacturing A C Dandy	HWYSP12-10S-M D- HWYSP12-10S-M	Feb 2017 Sep-2017
8	200A 120/240 Single Phase Meter Base & Cabinet, with window	Valid Manufacturing	HWYSMC-D-A01-20W	Feb 2017
9	Pre-emption Panels	Valid Manufacturing West Coast Electric Ltd.		N/a N/a
10	Telephone Demarcation Panels	Valid Manufacturing West Coast Electric Ltd.	HWYTDP	May-94 Jan-96
11	Distribution Kiosks	Sigma Technologies Electrotec Industries Valid Manufacturing West Coast Electric Ltd.		Apr-93 Jan-02 May-94 Jan-96

SIGNAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Side Mount Kits (Single arm brackets, pole plates, bolts, and washers)	Greenlite Traffic Globe Foundry	GEL189	Sep-94 Apr-00
2	Spring cushion end hangers	Greenlite Traffic	GEL327	Sep-94
3	Spring cushion end sign hangers	Greenlite Traffic	GEL348	May-95
4	Spring cushion mid hangers	Greenlite Traffic	GEL307	Sep-94
5	Spring cushion mid sign hangers	Greenlite Traffic	GEL338	May-95
6	Plumbizer kit	Greenlite Traffic	GEL378	Sep-94
7	Traffic Signal Mounting Bracket	Traffic Hardware + Design	CAN-BRAC	April 1, 2016
8	Plumbizer and sign bracket	Greenlite Traffic Globe Foundry	GEL379	May-95 Apr-00
9	Flasher Luminaires	Greenlite Traffic	GEL525	Sep-94
10	Post top adaptors	Greenlite Traffic	GEL143	Sep-94
11	Two-way spreaders (Tubular and T-Section) 18"	Greenlite Traffic	GEL410	Sep-94
12	Three-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL440	Sep-94
13	Four-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL460	Sep-94
14	Small spacer	Greenlite Traffic	GEL197	Sep-94
15	Large spacer	Greenlite Traffic	GEL198	Sep-94
16	Finials	Greenlite Traffic Canadian World Tradind	GEL133	Sep-94 Sep-97
17	Two-way sign mounting kit	Greenlite Traffic	GEL340	May-95
18	Span wire hanger and cable entrance	Greenlite Traffic	GEL360	Sep-94

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
19	Pedestrian Pushbuttons	Polara	BDLM (Bulldog) -red led	Nov-04
		47 th Parallel Traffic Products	Bull's Eye -red led	Nov-04
		Progressive Traffic Products	Bumble Bee -red led	Nov-04
		Campbell Company	DCC 4EVR	Sept. 2010
		Greenlite Traffic	GEL295	Mar 1, 2016
20	Signal heads without visors (200 Ø Red, 200 Ø Yellow and 200 Ø Green)	McCain		Jun-96
		Eagle	SRH130	Oct-98
		Econolite	EA31-BC	May-93
21	Signal head without visors (300 Ø Red, 200 Ø Yellow and 200 Ø Green)	McCain		Jun-96
		Eagle	SRH121	Oct-98
		Econolite	CA36-BC	May-96
22	Signal head without visors (300 Ø Red, 300 Ø Yellow, 300 Ø Green)	McCain		Jun-96
		Eagle	SRH103	Oct-98
		Econolite	TA31-BC	May-93
23	Signal head (200 Ø) with no lens and no visor	McCain		Jun-96
		Eagle		Oct-98
		Econolite	EAIX-BC	May-93
24	Signal head (300 Ø) with no lens and no visor	McCain		Jun-96
		Eagle		Oct-98
		Econolite	TAIX-BC	May-93

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
25	Pedestrian heads - 1 section	McCain		Jun-96
		Econolite	7090-BC	May-93
		Fortran		Mar 2012
26	Pedestrian heads with visors 2 section	McCain		Jun-96
		Econolite	PED2-BC	May-93
		Eagle		Mar-99
		Fortran		Mar 2012
27	300mm Polycarbonate Signal Head (Red, Yellow, Green)	Siemens	SG1031C1	Aug 2017
		Fortran	P Series	Nov 2011
28	200mm Polycarbonate Signal Head (Red, Yellow, Green)	Siemens	SG1301C1	Aug 2017
		Fortran	P Series	Nov 2011
29	Backboards, Visors, and Lenses	Econolite	-	May-93
		Eagle		Oct-98
		Fortran	-	Jan-94
		McCain		Jun-96
30	50 Watt halogen lamp and receptacle for fibre optic displays	Philips	50MR16/NFL24-EXZ	Mar-96
		GE	50MR16/NFL25-EXZ	Mar-96
		Osram-Sylvania	50MR16/24/NFL (EXZ)	Mar-96
		Leuci	EXZ-GU5,3	Jul-00
		Iwasaki (Eye)	50MR16NFL(EXZ)	Aug-02
31	Traffic Signal lamps	Phillips		Feb-94
		Osram-Sylvania		Mar-96
		Duro-Test		Feb-94
		GE Lighting		Mar-96
32	Audible Pedestrian Signals	Novax	DS102A-S124VDC	Nov-94
		Novax	Model: SoundSafe	July 2014
		Novax	VB3 Sound System (Internal)	July 2014
		Novax	VB3 Sound System (External)	July 2014
		Traconex	Model: APS-10	July 2004

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
33	1 Pair (2 Conductor) No. 18 Shielded Cable	Beldon	9318	
34	2 Pair No. 18 Shielded Cable	Impulse	181801	Apr-00
35	3 Pair No. 18 Shielded Cable	Beldon	9773	Oct-00
		Alpha	6024C	Oct-00
		Impulse	181803	Oct-00
36	4 Pair No. 18 Shielded Cable	Beldon	9388	Apr-00
		Impulse	18104	Apr-00
37	1.8 m Square ¾"RPVC Preformed Loop c/w 25m of twisted home run conductors (Dwg SP635-2.8.15)	Valid Manufacturing	1818B	Oct-00
		Electromega	17-7306	Oct-00
		InterProvincial Traffic	ITS-RPL	Oct-00
38	1.8 m Square Flexible PVC Preformed Loop c/w 25m of twisted home run conductors (Dwg SP635-2.8.15)	InterProvincial Traffic	ITS-FPL	Oct-00
39	200mm Red LED Display	GE Lighting	DR4-RTFB-VLA-027	May 1, 2016
		Dialight	4331110003XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-08R-004	Aug-02
		Leotek Electronics Corp.		Sept 05
		Duralight	JXC200-HFR	March 09
		Swarco FuturLED	FL-8R-S2	Dec 10
Excellence Opto Inc.	TRV-R08SG-D1T	Dec 2012		

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
40	300mm Red LED Display	GE Lighting	DR4-RTFB-VLA-027	May 1, 2016
		Dialight	4331210003XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-12R-004	Aug-02
		Leotek Electronics Corp		Sept 05
		Duralight	JXC300-HFR	March 09
		Swarco FuturLED	FL-12R-S2	Dec 10
		Excellence Opto Inc.	TRV-R12SG-D2T	Dec 2012
41	200mm Yellow LED Display	GE Lighting	DR4-YTFB-VLA-027	May 1, 2016
		Dialight	433111001XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-08A-004	Aug-02
		Leotek Electronics Corp.		Sept 05
		Duralight	JXC200-HFY	March 09
		Swarco FuturLED	FL-8A-S2	Dec 10
		Excellence Opto Inc.	TRV-Y08SG-D1T	Dec 2012
42	300mm Yellow LED Display	GE Lighting	DR6-YTFB-VLA-027	May 1, 2016
		Dialight	433323001XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-12A-001	Aug-02
		Leotek Electronics Corp.		Sept 05
		Duralight	JXC300-HFY02	March 09
		Swarco FuturLED	FL-12A-S2	Dec 10
		Excellence Opto Inc.	TRV-Y12SG-D1T	Dec 2012

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
43	200mm Green LED Display	GE Lighting	DR4-GTFB-VLA-027	May 1, 2016
		Dialight	4322170001XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-08G-004	Aug-02
		Leotek Electronics Corp.		Sept 05
		Duralight	JXC200-HFG	March 09
		Swarco FuturLED	FL-8G-S2	Dec 10
		Excellence Opto Inc.	TRV-G08SG-D1T	Dec 2012
44	300mm Green LED Display	GE Lighting	DR6-GTFB-VLA-027	May 1, 2016
		Dialight	4322270001XL	Mar-08 Rev.
		Precision Solar		Mar-02
		Act One	T1-12G-001	Aug-02
		Leotek Electronics Corp.		Sept 05
		Duralight	JXC300-HFG	March 09
		Swarco FuturLED	FL-12G-S2	Dec 10
		Excellence Opto Inc.	TRV-G12SG-D2T	Dec 2012
45	300mm Green Arrow LED Display	Excellence Opto Inc.	TRA-G12DG-IN	Dec 2012
		Leotek	TSL-12GA-LD-A1	Dec 2012
		Dialight	432-2374-001XOD	June 2013
46	300mm Bi-modal Green/Yellow Left Turn Arrow	GE Lighting	DR6-ECA6-01A	May 1, 2016
		Leotek Electronic Corp		Sept 05
		Precision Solar		Mar-02
		Dialight	4306730	Aug-00
		Excellence Opto Inc.	TRA-B12DD1W3	Dec 2012

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
47	300mm Sqr. Pedestrian Walk/ Don't Walk LED Display	GE Lighting	PS6-CFC4-01A-H3	May 1, 2016
		Leotek Electronic Corp	P09PAC-3S4	Sept 05
		Act One	TP-12WP-002	Aug-02
		Dialight	4306774001	Aug-00
		Excellence Opto Inc.	RP-C30D32F2	Dec 2012
48	300mm Sqr. Pedestrian Don't Walk Signal	Leotek Electronic Corp		Sept 05
49	300mm Sqr Countdown Pedestrian Signal	GE Lighting	PS6-PFD1-26A-H3	May 1, 2016
		Dialight	430-7773-001	June-05
		Excellence Opto Inc.	TRP-O30D32E2	Dec 2012
	Signal Bags	Trans Canada Traffic Ltd. ITS.	SignalSax Signal shirts	Dec-04 Dec-04
50	Uninterruptible Power Supply	Alpha Technologies Corp.	FXM 1100 Alpha Micro 300	March-08 Feb. 05, 2014
		Clary Corp	SP1000 SR.SN	Jan-05
		Trans Canada traffic	BM124M11	Dec-04
51	PLH – Preformed Flexible Detector Loops -Accepted (1018)	Electromega Ltd.		Dec-07

UNDERGROUND ELECTRICAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPR. DATE
1	Large Round Plastic Junction Box Sections	Valmont West Coast Engineering.	WCE-JB530-P	Apr-94
		Nova	P28-JB-B001-0	June 2010
2	Large Round Steel Junction Box Lids	Valmont West Coast Engineering.	WCE-L530-S	Apr-94
		Nova	P28-CO-ST-B00 -0	June 2010
3	Large Round Plastic Junction Box Lids	Valmont West Coast Engineering.	WCE-L530-P	Apr-94
		Nova	P28-CO-PL-B001-0	June 2010
4	Large Round Plastic Junction Box Drain Plates	Valmont West Coast Engineering.	WCE-D530-P	Apr-94
		Nova	P28-DR-B001-01	June 2010
5	Rectangular Plastic Junction Box Sections	Valmont West Coast Engineering.	WCE-JB1324-P	May-94
6	Rectangular Steel Junction Box Lids	Valmont West Coast Engineering.	WCE- L1324-S	May-94
7	Rectangular Plastic Junction Box Drain Plates	Valmont West Coast Engineering.	WCE- D1324-P	May-94
8	Rectangular Junction Box Mid Braces	Valmont West Coast Engineering.	WCE- MB1324	May-94
9	Large Round to Rectangular Plastic Junction Box Adaptors	Valmont West Coast Engineering.	WCE-AP1324/530 - P	May-94
10	Small Round Plastic Junction Box Sections	Valmont West Coast Engineering.	WCE-JB370-P	May-94
		Nova	P28-JB-A001-01	June 2010
11	Small Round Steel Junction Box Lids	Valmont West Coast Engineering.	WCE-L370-S	May-94
		Nova	P28-CO-ST-A00 -01	June 2010
12	Small Round Plastic Junction Box Lids	Valmont West Coast Engineering.	WCE-L370-P	May-94
		Nova	P28-CO-PL-A001-01	June 2010
13	Small Round Plastic Drain Plates	Valmont Westcoast Engineering	WCE-D370-P	May-94
		Nova	P28-DR-A001-01	June 2010
14	Large Round Steel Junction Box Lids	Valmont West Coast Engineering	WCE-L530-C	June 2011
15	Concrete Junction Box (SP635-1.3.1)	A.E. Concrete Products	MoTH No. 5686	Jun-96
		Kon Kast Products	No. 950	Jun-96
16	Concrete Vault (SP635-1.3.3)	A.E. Concrete Products		Jun-96
		Kon Kast Products		Jun-96
17	24'X36"X36" Junction Box with cover bolt Tier 15-20K with Hex Bolts	Synertech	S2436C36FA S2436HCBOA01	June 2010
18	Cast In Place Aluminum Junction Boxes	Valid Manufacturing	CIPS1XXXXX	July 2016

TRAFFIC CONTROLLER PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Controller Unit	Peek Traffic	LMD 8000 Rev 8K	Jan-04
2	Conflict Monitor	Peek Traffic	LNM12E Rev 18	Jan-04
	Conflict Monitor	EDI	SSM12LE (CAN)	Jan-04
3	Malfunction Management Unit	Peek Traffic	Double Diamond MMU TS1 Cardwith TS2 Covered	Jan-04
4	Programmable Logic Controller for Traffic Controller Assemblies	Omron	CPM1/CPM1A-20CDR-D (24 VDC source,24 VDC input,24 VDC or 240VAC output)	Jan-04
5	Hand-Held Loader for Programmable Logic Controllers for Traffic Controller Assemblies	Omron	CPM1-EMU01-V1	Jan-04
6	Firmware (EEPROM) Loader for Programmable Logic Controllers for Traffic Controller Assemblies	Omron	AT28C256 15PL 0022	Jan-04
7	Programming Cable Loader for Programmable Logic Controllers for Traffic Controller Assemblies	Omron	CQM1-CLF02	Jan-04
8	Cellular Telephone for Traffic Controller Assemblies	Motorola	S4018A	Jan-04
9	Cellular Telephone Antenna for Traffic Controller Assemblies	Maxrad	MLPV8000 c/w MAML 195PLmounting hardware and cable	Jan-04
10	General Purpose Solid State Relay	Electro Systems	120-25-SSR 525 S/N	Jan-04
11	Solid State NEMA Load Switch	Electro Systems	Model 200	Jan-04
12	Solid State Two Pole NEMA Intersection Flasher	Electro Systems	Model204	Jan-04
13	Advanced Warning Flasher	Electro Systems	Model AW-2	Jan-04
14	Advanced Warning Card	Electro Systems or Thermatek Instruments	TEC-AW2	Jan-04
15	Pre-emption Interface Card	Electro Systems or Thermatek Instruments	TEC_DPE3	Jan-04
16	4-Phase Pedestrian Vehicle Interface Card	Electro Systems or Thermatek Instruments	TED-PV4	Jan-04
		Electro Systems or Thermatek Instruments	TEC-PV8	Jan-04
17	Two-pole Flasher	Electro Systems	Model TFF12	Jan-04
18	Loop Detector	Sarasota	GP6C	Jan-04
		E.D.I.	ORA2	Jan-04
		Reno A&E	222R	Jan-04
		Global Traffic Canoga	C922	Dec 10
19	LCD Diagnostic Detector	Eberle	MORACLE/2	Jan-04
20	Power Supply Card	Thermatek Instruments	TEC-PS	Jan-04
21	Mercury Relay Contactor	MDI or Durakool	SP-1130-120A	Jan-04
22	Flash Transfer Relay	Midtex	136—62T3A1	Jan-04
		AEMCO	136-4992	Jan-04
23	#14-6 Screw Lugs	Burndy	KPA-8C	Jan-04

25	Traffic Controller Serial Communication Cable	Cabco	TEC-1 through TEC-7 inclusive	Jan-04
26	Solid State Timer	ARTISAN	438 USA	Jan-04
27	K9-Relay 24VDC	Potter & Brumfield	R10-EIX4-V700	Jan-04
28	Fire Signal Controller	Novax Industries Inc.	ELA 515	Sept 05
29	Signal UPS Cabinet	Valid Manufacture	KDSA48-30-10385	Dec - 10
30	Traficon Traficam	Traficon		Dec 2012
31	Special Crosswalk Controller	Novax	PXO	June 2016

ELECTRONIC SIGNS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	12" Amber LED Display Open/Closed Sign	Tassimco	LS-OCS2052-12	January 2011
		Act One	ABM-12A-OP/CL	January 2011
		Wells Signs	Part number 66140CY	December 2012
2	Dynamic Message Sign (DMS)	ADDCO	Brick	April 1, 2017
3	Wildlife Warning Signs	National Sign & Signal (Interprovincial Traffic)	S2124LEDW064-1	Dec 1, 2017
		JSF Technologies	AB-5801-AC	Dec 1, 2017
4	Led Chevron Sign	Interprovincial Sign & Signal	2430LEDW18	December 2012
		Unipart Dorman	SBC9/109	Feb 2016
5	Illuminated Pedestrian Crosswalk Signs	Valid Manufacturing	PED3X4L	October 2015
		Greentop	36x48	Sept 2015
6	Speed Reader Boards (Driver Feedback Sign)	Trafficalm	M75-12DFB-000X M75-14DFB-000X M75-15DFB-000X M75-18DFB-000X	May 2016 May 2016 May 2016 Feb 2016
		Unipart Dorman	DF11M/MB	Feb 2016
		Unipart Dorman	DF15	Feb 2016
		Traffic Logix	SP-650	April 1, 2017
		Valley Traffic Systems	Various	Mar 1, 2016
7	Illuminated Bollards	Valley Traffic Systems	Various	Mar 1, 2016

ELECTRONIC DEVICES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Radar Vehicle Detection Sensor	Wavetronix	SmartSensor HD	February 2016
2	Microwave (Wi-Fi) Radios	Encom	BB Series, E-Lite Series, Energy Series	Mar 1, 2016
3	Bluetooth Readers	Traffic Cast	BlueTOAD	Mar 1, 2016

VIDEO DETECTION PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Video Image Processor For Video Detection	Traficon Trafcon Iteris	VIP 3.2 VIP3D.x	Jan-04
2	Video Detection Expansion Module	Traficon	2-I/O Extender	Jan-04
		Traficon Iteris	4-I/O Extender	Jan-04
3	Surge Suppressor For Video Detection	EDCO	CX06-BNCY	Jan-04
4	Image Processor Key Pad Controller	Traficon Iteris	Trafico Programming Key Pad	Jan-04
5	Camera Focus/Zoom Controller	Traficon Iteris	Zoom Box	Jan-04
6	Video Monitor	Phillips	LTC 9388/60	Jan-04
7	Power Supply for Video	Thermatek Instruments	TC-PS1	Jan-04

WEB CAMERA PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Network Camera, Stationary	Axis Communications	Contact Ministry Electrical Engineering Centre, ITS Operations at ELECITSO@Victoria1.gov.bc.ca for current models.	N/A
2	Network Camera, Pan-Tilt-Zoom	Axis Communications Pelco	Contact Ministry Electrical Engineering Centre, ITS Operations at ELECITSO@Victoria1.gov.bc.ca for current models.	N/A
3	Network Camera Enclosure, Stationary	Dotworkz Dotworkz Pelco	S-Type-RoF S-Type-Solar EH4718-1	August 2017
4	Network Camera Enclosure, Pan-Tilt-Zoom	Dotworkz Axis Communications E-Series	D2-RoF XXXX-E	August 2017
5	Power Supply	Phoenix Contact Phoenix Contact Omron Omron Phoenix Contact Phoenix Contact Omron Omron	2902998 (12Vdc) 2902999 (12Vdc) S8VK-G03012 (12Vdc) S8VK-G06012 (12Vdc) 2902991 (24Vdc) 2902992 (24Vdc) S8VK-G03024 (24Vdc) S8VK-G06024 (24Vdc)	August 2017
6	Cellular modem	Sierra Wireless	Contact Ministry Electrical Engineering Centre, ITS Operations at ELECITSO@Victoria1.gov.bc.ca for current models.	N/A
7	Cellular Antenna (Omni)	Laird Technologies Laird Technologies Laird Technologies	TRA6927M3xxN (Low Gain) TRA6927M3 (Med Gain) TRA8063M3 (High Gain)	August 2017
8	Cellular Antenna (Yagi)	Digital Antenna Top Signal	457-DB (Black) TS220971 (White)	August 2017
9	Land-Line Dial-up Modem	DCB	IP6690	August 2017
10	Coaxial Cable	LMR400, LMR240	Various	August 2017

SOLAR POWERED CROSSWALK and WARNING FLASHERS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Solar Flashing Beacon	Carmanah Technologies	R247C	Sept 2005
		JSF Technologies	1400 – 24hr Flashing Beacon	Sept 2005
2	Solar LED Pedestrian Cross Walk Flashers	Carmanah Technologies	R820	Sept 2005
		JSF Technologies	AB-2400, AB-3400	Sept 2005
		Electrotechnics Corp	ELTEC's Pedestrian Crossing System (AC or DC)	March 2013
		Intelligent Traffic Equipment	LaneLight RRFB-	April 2015

			CDNClimate	
3	Solar Rectangular Rapid Flashing Beacon (RRFB)	Carmanah Technologies	R920	Jan 2015
			SC315	Sept 2017
		Intelligent Traffic Equipment	Lane Light RRFB-CDN Climate	April 2015
		RADCROW INDUSTRIES	RCFB	June 2016
		JSF Technologies	AB-9207, AB-9407	June 2016
		Solar Traffic Controls, LLC	RRFB – Solar Powered	Feb 2017
4	Solar Controller for R920 RRFB	Carmanah Technologies	SC315 (70121, 70122, 70123, 70124)	Jan 2015

AC POWERED CROSSWALK and WARNING FLASHERS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Rectangular Rapid Flashing Beacon (RRFB)	Carmanah Technologies	SC315	Sept 2017
		JSF Technologies	AB9200/AB9400	Feb 2016
		Intelligent Traffic Equipment	Lane Light RRFB-CDN Climate	April 2015
		RADCROW INDUSTRIES	RCFB	June 2016
		Solar Traffic Controls, LLC	RRFB – AC Powered	Feb 2017

ELECTRICAL CONCRETE BASES

CONCRETE BASES

Note: See Ministry's Standard Specifications in 635.07 and shown on drawings 635-1.1.2 through 635-1.1.47. Quality to comply with Ministry specifications and reports to be provided as requested.

EPOXY PRODUCTS

GENERAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Miton 223 (141)	Pro-Poxy 204 – Unitex (1063)
Miton 227 (143)	BASF – MasterEmaco ADH 1090 RS (replaces Concessive 1090 (438))
Miton 514 (138)	Red Head Epcon S7 and A7+ (559)
Ulcan Hanner Cap (619)	SpecChem SpecPoxy 1000 (1265)
Pro-Proxy 300 Fast – Unitex (609)	SpecChem SpecPoxy 2000 (1265)
Pro-Poxy 200 – Unitex (1063)	SpecChem SpecPoxy 3000 (1265)
Pro-Poxy 500 – Unitex (1063)	SpecChem SpecPoxy 3000 FS (1265)

CRACK INJECTION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BASF MasterEmaco ADH 327 RS (replaces Concessive 1446) (438)	Sho-bond #101 (736)
BASF MasterInject 1380 (replaces Concessive 1380) (438)	Pro-Poxy 50 – Unitex (1063)
Sika Sikadur 31 HI MOD Gel (081)	Pro-Poxy 100– Unitex (1063)
Sika Sikadur 33 (081)	Simpson Strong Tie – ETI-LV and ETI-GV (1079)
Sikadur 35 Hi-Mod LV (081)	
Sikadur 524 (081)	
Sikadur 55 SLV (081)	

EPOXY ASPHALT-CONCRETE APPLICATION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Sikadur 32 Hi-Mod Epoxy Adhesive (081)	

EPOXY SURFACE TREATMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

EROSION CONTROL, SEDIMENT CONTROL and REVEGETATION

See Standard Specifications Section 757 Re-Vegetation Seeding for Hydro-Seeding requirements.

See Standard Specifications Section 165 for Erosion and Sediment control requirements.

ROLLED EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
North American Green (Various) (107)	Western Excelsior ECB (890)
Multimat 100 Geogrid (226)	SI Geosolutions TRM (891)
Foreshore Grout Mattress (373)	Scourstop (975)
Profile Products Made to degrade (459)	Profile Products (1078) – Futerra 7020, Futerra TRM, (not within the wetted perimeter);
Geocoir/Dekowe (487)	Excelsior Erosion Products – Excel, EStaple, CurlexI, CurlexII, CurlexIII, Recyclex, & AEC Straw single and Double Net, AEC Premier Straw/Coconut (1078)
Georidge (848)	EcoMatrix (1078)
Supergro (843)	Flexterra (1078)
MacMat N 10, & 20 (880 & 881)	Layfield East Coast Erosion Blankets (1117) – ECSC-2; ECSC-2B; ECS-2B; ECC-3; ECC-2; ECC-2B. (full synthetic blankets not accepted)
Erosion Control Blankets (1152) – S32BD; S31; S32; C32BD; C32; SC32BD; SC32; PC42; PS 42; P42 TRM	Bon Terra (Various) (106)
	American Excelsior Erosion Products (1088) – EStaple, All Curlex Products; All Recyclex, & AEC Straw Single and Double Net Products, All AEC Premier Straw/Coconut products.

HYDRAULIC EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Ecoaegis (Bonded Fiber) (731)	Hydrotech (732) not active subject to deletion
Spra-mulch (149) not active subject to deletion	EcoFibre Plus Tackifer - Terra Wood with Tacking Agent 3 Conwed 1000 (731) and Ecofibre (1078)
Mat Fiber (150) not active subject to deletion	Earthguard Fiber Matrix (1143)
Soil guard (Bonded Fibre Matrix System) (440)	Ranier Fiber and Tac (1171)
American Excelsior Erosion Products (1088) – Bindex wood WT; Bindex Wood; Bindex BFM.	Profile Products (1078) Coco Flex ET-FGM; Flexterra HP-FGM HP; Ecoflex: Promatrix and Ecomatrix (Engineered Fiber Matrix).
Nilex MulchMax 101 wood (1161)	Nilex MulchMax 200 and MulchMax Ultra (1161)
HydraCX ² Extreme Slope Matrix (719)	Profile Products (1237) Engineered Fiber Matrix EFM
EcoFibre Plus Tackifer -Terra Wood with Tacking Agent 3 - Conwed 2000 (1078)	

PNEUMATIC EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Denbow EcoBlanket (1190)	

TACKIFIERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
J-Tac (155)	Hydro Straw Fiber RX (1274)
M-Binder (156)	

FLEXIBLE GROWTH MEDIUM/SOIL AMENDMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Verdyol – HyroGold, Biotic Earth HGM, Biotic earth Black, Biotic Earth BFM (1152)	Profile – Proganics Biotic Soil Media BSM (1237)

SEDIMENT CONTROL APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Beltech Silt Fence (489)	Layfield SF100 & SF124 (987)
Layfield WBSF (892)	Willacoochee Ind Fabrics WINFAB Silt Fence (1251)
Denbow FilterSoxx (1190)	AGES Premium Silt Fence (904)
Denbow EcoBerm (1190)	

DITCH BLOCK/BARRIERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Aqua Dam (333)	

EROSION – GENERAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
A-Jax Block (111)	BMP Spring Berm (1128)
Trilock Erosion Control (686)	Concrete Cloth (1131) (possible applications for abrasion in culverts)
Propex Armormax (719)	Nilex Smart Ditch (1160) TRIAL USE only Dec 31, 2017
Enviroberm (691)	Flexamat (1238)
Gabion Mat (882)	Cable Concrete (1255)
Modular Gabions (1028)	Deltalok (791) <i>Discontinued - Replaced with Flex MSE (1236)</i>

LANDSCAPING PRODUCTS

See Standard Specifications 751, 754, 757, 766 and 769 for landscaping requirements

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Interlocking Concrete Pavers (074)	Lava Rock (284)
Weed Barrier Geo Textile (197)	Deeproot Barrier (468)
Commercial Tree Ties (282)	Netlon Advanced Turf (722)
Stamped Concrete Finish (Bomanite) (283)	Driwater (725)

FASTENERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Strapbinder (627)	

FENCING

See Standard Specifications Sections 700 Wildlife Exclusion Fencing and SS741 Fence Construction. Other fencing can be specified on a project by project basis for products applicable to the project.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

GEOTECHNICAL

GEOSYNTHETICS

Geotextiles Woven and Nonwoven have specific material properties and applications for separation, strength, filtering, and stabilizing road base.

Selection for a particular Geotextile would be specified in Special Provisions for their application and use meeting required ASTM standards and AASHTO Geotextile Specifications Testing AASHTO M 288.

Testing laboratories for Geosynthetics are found on the web site as follows: <http://www.geosynthetic-institute.org/gai/lab.htm>.

Quality assurance testing on Geosynthetics may be requested from time to time by the Ministry to verify product's specifications to meet requirements.

GEOTEXTILES - WOVEN

Woven Geotextiles are to be tested in accordance with ASTM D4632, ASTM D4833, ASTM D3786, ASTM D6241, ASTM D4533, ASTM D4751, ASTM D4491 and ASTM D4355.

Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by the ASTM Committee D35. Puncture Strength ASTM D4833 has been replaced with the Static (CBR) Puncture ASTM D6241.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geolon HP Series (883)	AIL90 (1036); AIL100 (1036); AIL120 (1036) Note: Product Listing subject to confirmation products meet TenCate Mirafi specifications - Renew end of 2017
Webtech (826)	Skaps Geotextiles (1146)
Ages HS (828)	Texel Geotextiles (1223)
Nilex Geotex Geosynthetics (979)	Propex Geotextiles (1228)
Layfield Geotextiles (987)	TenCate Mirafi Geotextiles (1229)
Maccaferri MACTEX Geotextiles (1008)	Willacoochee Ind Fabrics WINFAB AB(1251)

GEOTEXTILES – NONWOVEN

Non Woven Geotextiles are to be tested in accordance with ASTM D4632, ASTM D6241, ASTM D4533, ASTM D4751, ASTM D4491 and ASTM D4355.

Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by the ASTM D35. Puncture Strength ASTM D4833 has been replaced with the Static (CBR) Puncture ASTM D6241.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Webtech (826)	Texel Geotextiles (1223)
Ages HS (828)	Propex Geotextiles (1228)
Nilex Geotex Geosynthetics (979)	TenCate Mirafi Geotextiles (1229)
Layfield Geotextiles (987)	Willacoochee Ind Fabrics WINFAB(1251)
Maccaferri MACTEX Geotextiles (1008)	Skaps Geotextiles (1146)

GEOGRIDS (UNIAXIAL- UX)

Geogrids products applications vary with conditions and requirements and are to be tested in accordance with ASTM Test requirements.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Nilex Tensar Nilex Tensar Ux series (719)	Maccaferri Maccaferri MacGrid (813)
Fortrac Grids Carthage Mills GX Series(870)	Tenax
	Synteen SF Series Uniaxial Geogrids (719)
Titan GeoGrids (1193)	Layfield Geogrids (987)
Mirafi Tencate	

Mirafi Tencate XT Series (714)	
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GEOGRIDS (BIAXIAL - BX)

Geo Grids products applications vary with conditions and requirements and are to be tested in accordance with ASTM Test requirements ASTM D4759-02, ASTM D6637-01, ASTM D5732-01, ASTM D6637-01, and ASTM D4355-05.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<u>Nilex Tensar</u> Nilex Tensar Geogrids (662) Nilex Tensar Bx Series (719)	<u>Mirafi Tencate</u> Miramesh Biaxial Geosynthetic (897) (surface erosion over steepened slopes)
<u>Fortrac Grids</u> Fortrac 20/13-20 (603) Fortrac 110/30-20 (607) Fortrac 35/20-20 (604) Fortrac 55/30-20 (605) Fortrac 80/30-20 (606)	<u>Maccaferr</u> Maccaferri MacGrid (813) Maccaferri MacGrid EG20S/EG30S Maccaferri MacGrid WG/KG Series
<u>Titan GeoGrids</u> Titan GeoGrids TE-BX-15/20/25/30PP (1193) Titan GeoGrids TE Type 1 and Type 2 (1193)	<u>Tenax</u> Tenax MS 220/330 Series (689) Tenax TT Series (894)
<u>Checkmate</u>	
Paralink / Paragrid	Strata Geogrid Products (901)
Synteen SF Series Biaxial Geogrids (719)	Combi Grid (929)
E'Grid (889)	Secugrid (940)
	Layfield Geogrids (987)
	Terrafix Biaxial Geogrids BX Series (1086)

GEOGRIDS (TRIAxIAL - TX)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Nilex Tensar Triax Geogrid (719)	

GEOGRIDS COMPOSITES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Titan TE-BXC (18and 30) Bi-Axial Geogrid Composite (1193) TRIAL USE only expires Dec 31, 2017	

GEOGRIDS-PAVEMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Nilex Glassgrid	PaveGrid FGC Series (898)
MiraPave (994)	Checkmate Roadgrid (905) discontinued
PaveGrid FG Series (896)	Huesker Ha Telit C 40/17 (1139)
TiTan Bi-Axial (TE-FGP and TEFGC FiberGlass Geogrids (1193)	

GEOMEMBRANES

Note: This category is currently under revision

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

CAPILLARY REINFORCEMENT SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TenCate Geotextiles Mirafi H2Ri (1229)	

GEODRAINS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
ADS Advan edge/HDPE (633)	Delta Drain LD Series (893)
Miradrain 5000, 6000 and 9000 (136)	Drain Tube (1159)
Miradrain G100N; G200N; G300N Series(136)	Nilex WD-15 with J-Drain 400 (1160)
RED Pak (284) discontinued	Nilex DN50-2 with J-Drain 300 (1160)
Tendrain (688)	JD Drain 300 and 400 (1160)
	TenCate Geotextiles Mirafi H2Ri (1229)

GEOCOMPOSITES

Note: This category is currently under revision

GEOFOAM

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geospec (855)	Plasti-Fab (799)

CELLULAR CONFINEMENT SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Geoweb (224)

ENVIRONMENTAL LINERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Layfield Plastics 30mil PVC sheet (987)	Coletanche Geomembrane (1126)
Bentofix (838)	Siplast Ternap (1243)

HIGHWAY SAFETY DEVICES

NOTE: For the following Highway Safety Devices -

Where products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350. These products are listed as transitional products (maintenance repairs) as products move towards meeting Manual for Assessing Safety Hardware (MASH) requirements.

New product listings and applications need MASH certification or eligibility where/when applicable for the project requirements.

Reference:

FHWA website identifies products with MASH eligibility as follows:

https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/

BREAKAWAY DEVICES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Transpo Break Safe (1005)	Dent Breakaway Bolt (966)
UBS Industries – Atkore Structural Sign System MASSH 400 sign support (1278)	Dent Sign Post Fuse Plate (993) (For use with breakaway sign supports)

BARRIER SIGN CONNECTIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Adapt- Eze Safety Products CBM-1000 (1157)

HIGHWAY TRAFFIC BARRIERS

CABLE BARRIERS

NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level 3 (4 wire systems) for Ministry roadside applications and/or Test Level 4 (4 wire systems) for Ministry median applications as such are acceptable for use by the Ministry. See Tech Circular T-02-13 “Cable Barrier”.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Safence (965)	Gibraltar Cable Barrier System (955)
Brifen Wire Rope Safety Fence (1097)	Nu-Cable (1106)
CASS-TL3 (1026)	

CONCRETE BARRIER

Any Concrete Barrier product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, of Section 941 – Precast Reinforced Concrete Barrier, qualifies under this section.

Note: The following List of Manufactures and Suppliers meeting Ministry Specifications are found procured through the Procurement Services Branch and listed below as meeting QA/QC requirements of Section 941 on an annual basis during the current standing procurement offer term.

LIST MANUFACTURERS AND SUPPLIERS

ACCEPTED MANUFACTUER/SUPPLIER	ACCEPTED QC/QA PLAN
For current term up to 2020	For Concrete Barrier meeting SS 941
Coast Range Concrete	2018
Eagle West Crane and Rigging	2018
Grosso Precast and Crane Service	2018
Kemp Concrete Products	2018
Kon Kast Products	2018
Skeena Concrete Products	2018
Sure Span Structures	2018
Tri Kon Precast Structures	2018

SPECIALTY APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Visi-Barrier (1005) (special engineered use only like Bridge Parapet or Tunnels)	

STEEL TRAFFIC BARRIERS; STEEL POST & WOOD POST

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, of Section 312 - Steel Traffic Barriers & Wood Posts, qualifies under this section.

Products require FHWA approval and passing NCRHP TL-3 and TL-4 testing.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
NU-Guard 31 Roadside Guardrail System (1156)	

WATER FILLED TRAFFIC BARRIERS

Products are no longer listed in this category. See Highway Safety Devices – Barriers – Water Filled for additional information.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Yodock Barrier System (341) – Temporary listing as this is a construction product	

GLARE SCREENS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Carsonite (109)	SafeHit Glare Screen (728)
Glare-Gaard (519)	Glarescreen GS Series (1213)
	Plasticade Glare Screen(1231)

IMPACT ATTENUATORS

NOTE: The following products have met the certification requirements of the Manual for Assessing Safety Hardware (MASH), Test Level 3 and as such are acceptable for use by the Ministry.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SCI100GM (0079)	Quad Guard M10 (1005)

NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level 3 and as such are acceptable for use by the Ministry.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Quad Guard Systems (1005)	

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Brakemaster 350 (113)	Traffic sand barrels (294)
CAT – 350 (114)	Quad Guard Elite, LMC and Guard II (1005)
Energite III Sand Barrels (115)	Quest Impact Attenuator (1065)
Fitch Sand Barrels (116)	TRACC (984)
React 350 (117)	TraFFix Compressor Attenuator (997) (Note: Steel Base fixed to pavement surface must be engineered)

Universal TAU-II (118)	CrashGard Sand Barrels (1012)
Quad Trend (119)	Canada Culvert Fleet 350 End Terminal(1156)
Adiem 350 (125)	

STEEL BARRIERS

NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level (TL) 3 and TL4; and as such are acceptable for use by the Ministry Traffic and Highway Safety Engineering Department on a project specific application for specialty applications related to longer term construction work.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Zoneguard (TL3 &TL4) (1136)	Vulcan Gate (TL3 &TL4) (1130)

WATER FILLED BARRIERS

Products are no longer listed in this category. Water filled Traffic Barriers are considered temporary in nature and would be considered through a project specific traffic control plan submission.

NOTE: Contact Traffic and Highway Safety, Engineering Services Department, (Kenedee Ludwar (604) 527-2255), prior to using Glare Screens, Impact Attenuators, Cable Barrier, and Water Filled Barriers Products.

HAZARDOUS WASTE MANAGEMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Aqua Dams (333)	HAZGARD 100 and 250 (907)
Claymax (225) Discontinued	HAZGARD 500 (908)
KCM Containment (400)	HAZGARD 10000 (911)

LIGHTWEIGHT FILL MATERIAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geolite (711)	Tephralite _ Light Vesicular Basalt (1140)
Plasti-Fab GeoSpec Lightweight Fill Material (799)	Korolite EPS Geof foam (1165)
Super Fill LW (925)	Garibaldi Pumice (1177)
Cematrix Cellular Concrete (1100)	Recoglass Foamed Glass Gravel (1219) TRIAL USE only
Gastado Cell-Crete (1114)	EPS Molders EPSM GeoFoam (1270)

PORTLAND CEMENT CONCRETE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction - Section 211, qualifies under this section.

PORTLAND CEMENT CONCRETE ADMIXTURES

Concrete Admixtures have unique properties which influence the resulting properties of the Portland Cement Concrete product.

Applications of Concrete Admixtures need to be carefully applied as to achieve the concrete mix-design to meet Ministry's Standard Specification 211 requirements; and CAN/CSA 23.1 and 23.2. Each admixture additive is subject to the Ministry Representative's acceptance in accordance with SS 211.

The Ministry lists the following manufactures of concrete admixtures as submitting independent ASTM testing results meeting ASTM test requirements for Air Entraining (ASTM C 260) and Chemical Admixtures (ASTM C 494) which may be used in concrete mix designs in complying with the Ministry's Specifications 211 and CAN/CSA 23.1 and 23.2.

ACCEPTED MANUFACTURER	ACCEPTED MANUFACTURER
GCP Applied Technologies Admixtures (943) name change from Grace February 2016	Euclid (1010)
BASF - Master Builders (100)	Sika (Canada) (1133)
Chryso (992)	

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Cellular Concrete Technologies.Stable Air (1205)	

ANTI-SKID TREATMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Bimagrip HD (472)	Durabak (816)

BONDING AGENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BASF MasterEmaco ADH 1090 RS (replaces Concresive 1090) (438)	Industrial Formulators (137)
Powerbond (134)	Miton 514 (138)
Pro-Bond (135)	Starpatch Acrylic 900X (301)
Sikadur (081)	Sternson
Target Bonding Agent (935)	Strong Bond (Symons) Discontinued and replaced with Dayton Superior Acrylic Bonding Agent J40 (578)

CORROSION INHIBITORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
D.C.I. (Darex) (535)	Krystol Internal Membrane KIM (1178) Trial Use Only (Dec 31, 2019)
BASF MasterProtect 8000 CI (365) (replaces Masterseal CP)	Cortec MCI 2005 and 2006 (1180)
MAPEI Mapefer 1K (1070)	

CURING MEMBRANES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Elsro 702	W.R. Meadows
BASF MasterKure CC 180 WB (replaces Sonneborn Kure-N-Seal) (438)	3001-Rescure Water Base (Innovative Manufacturing) (191) name changed from Webres – Websen
Dayton	Waterproof & Spec. Coating (142)
Sika Florseal WB 18 (1133)	SpecChem PaveCure Rez White (1265)
Sika Florseal WB 25 (1133)	SpecChem PaveCure WW (1265)
	Hard Cem (1042) Concrete Hardner

DECK OVERLAY

ACCEPTED PRODUCTS	
Basf HP Deck Overlay with Fibre (426)	

FIELD ANTIGRAFFITTI

Applications for sacrificial washing.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Cappar, Capseal A50 (092)	Spray-Deck (462)
Dow Corning AllGuard (051)	GPA-200 SEI (853)
Elsro #736 Sternson, Acrytite	Sherwin Williams Field Anti-Graffiti (1047)
Canyon-Tone (Conchem) (110)	CSL Silicones Si-Coat Anti Graffiti Protective Coating (CSL531 clear) (1214)
Sikagard Color A50 (131)	AquaTreat SG Antigrffiti (1222)

Applications non-sacrificial products of more than 5 years.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Protectosil Antigrffiti (1222)	

Note: the above products may be suitable for steel

GROUTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BASALITE (425)	MAPEI
Basalite Non Shrink (425); Basalite Microsil Anchor (424); Basalite Rehab Mix - (426)	MAPEI Planigrouts (1070)
BASF	RAPID SET
BASF Construction Grout (438); BASF Masterflow 555; 928; 1205 and 1341.	Rapid Set Cement-All (321)
EUCLID	STARPATCH (313 to 315)
	Starpatch Patching Mortar (313); Starpatch Road Repair (314); Starpatch Thin Set (316); Starpatch Filling Mortar (315)
FIVESTAR	TARGET (699, 702, 703, 708 and 967)
Fivestar Fluid Grout 100 (991); Fivestar Fast Cement (991); Fivestar Pile Jacket Grout (991); Fivestar Cementitious Underwater Grout (991); Fivestar Post Tensioning Cable Grout (991); Fivestar Special Grout 400 (991); Fivestar Instant Grout (991)	Target Machine Base Grout (699) Target 1118 Grout (702) Target Flowcrete (703) Target Portland Expanding (708) Target 1117 Silica Fume Anchor Bolt Grout (967)
Hilti (1067)	Sika (1133)
Hilti Precision Grout PG (1067) Hilti Epoxy Grout EG (1067) Hilti Multipurpose Grout MG (1067)	Sika 212HP (1133); Sika 212 (1133) Sika 212SR (1133) Sika M-Bed Standard (369)
	SpecChem (1265)
	SC Precision Grout (1265) SC Multipurpose Grout (1265)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Burke-2 (108)	Miton 700 (144) Miton 227 (141)
Burke, Fast Patch 928 (126)	US Mix Co – US Spec NA 5 (1216) and US Mix Co – US Spec NA 50 (1216)
Burke Nonferrous Grout (127)	Burke Standard 621 Grout (128)

INJECTION SEALERS

Products are applied by drilling into concrete and injecting material to seal leaks.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Turbo Seal U and P (1148) TRIAL USED Hwy 5 expires Dec 31, 2017	

PATCHING PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BASALITE	MAPEI (1070)
BASALITE Basalite Fast Patch (422); Basalite Rehab Mix (426); Basalite Traffic Patch (423); Basalite Dam Sac 352 (421)	MAPEI Planitop 23 (1070) Planitop XS (1070) Mapcem 202 (1070) Quickpatch. (1070)
BASF(438); (712); (828)	RAPIDSET (320 to 323) (467)
BASF – MasterEmaco 1060 (replaces Emaco 1060 Rapid Mortar); MasterEmaco N 424 (replaces MasterEmaco GP) MasterEmaco N 425 (replaces Gel Patch) (712); MasterEmaco N 545 (replaces Set 45) (438). MasterEmaco S 466 CI (replaces Emaco S66) MasterEmaco S 488 CI (replaces Emaco S88) MasterEmaco T 415 (replaces Emaco T 415) MasterEmaco T 430 (replaces Emaco T 430) MasterFlow 100 (replaces Construction Grout); Masterflow 928 (438);	RAPIDSET Rapid Set Cement-All (323); Rapid Set Mortar Mix (320); Rapid Set Cement (321); Rapid Set Concrete Mix (322); Rapid Set DOT Repair Mix (467).
Crafco HP Concrete (1038)	
EUCLID (1010)	Sika (1133)
EUCLID Duraltop Gel (1010); Eucocrete (1010); Concrete Top Supreme (1010); Eucospeed MP (1010); Thin-Top Supreme(1010) ; Veraspeed (1010); Veticoat Supreme (1010); Con Thin-Top Supreme Crete (1010)	Sika SikaSet 45 (1133); SikaTop 111 Plus (1133); SikaTop 121 Plus (1133) SikaTop 122 Plus (1133); SikaTop 123 Plus (1133); Sikacrete 08 SCC (1133); SikaQuick 1000 (1133) SikaQuick 2500 (1133)
FIVESTAR (194) (991)	STARPATCH (313 to 316)
FIVESTAR FiveStar - Highway Patch (194); FiveStar Structural Concrete (991); FiveStar Structural Concrete V/O (991)	STARPATCH Starpatch Thin Set (316); Starpatch Patching Mortar (313); Starpatch Road Repair (314); Starpatch Supa-Fine Patching (312); Starpatch Filling Mortar (315)
MAPEI (1070)	TARGET (701, 703 704, 705, 706, and 967)
MAPEI Planitop 12 R (1070) Planitop 12 SR (1070) Planitop 15 (1070) Planitop 18 (1070) Planitop 18ES (1070)	TARGET Target SC100W (701) Target Flowcrete (703) Target SC100D (704) Target Traffic Patch Course (705) Target Traffic Patch Fine (706) Target V/O Patching and Repair Mortar (967)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Fast Set Patching Concrete (700)	Sealcoat Elastic Plus (652)
Fusion-Crete Crystals (638)	Roadware 10 min Concrete Mender (277)
Highway Patch (194)	Thin Patch (Symons) (577) <i>replaced with</i> Dayton Superior Thin Resurfacer (577)
Insta-Patch (145)	Tapecoat M860 Road Repair (380)
Wunder-Plast Swiss System (180)	Verticle Patch (Symons non-sag) (582) <i>replaced</i> Dayton Superior HD 25 VO (582)
Epoxy Overlay/Polymer Concrete (437)	HD-50 (837)

Fusion Crete (Reg Set) (123) Fusion Crete (Minute Set) (193)	MG-Krete (937)
MCI – 2038 and 2039 (Cortec) (1180)	Easy Patch - Kwik Bond (1127)
Quazite (patching blend) (209)	SpecChem RepCon V/O (1265)
	SpecChem RepCon 928 (1265)
	CWI Williamette Valley Fastpatch MD/GC (1210)

SEALANT

Silane Products are to meet Environment Canada Regulations for Architectural, Industrial and Maintenance Coatings of 400g/L.

The use of a sealant is subject to contract requirements and manufacture's application.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
CIM Membranes (112)	Miton 400 (147)
Cemflex (658)	Pena-Seal (455)
Chemco System Kemko 046 (129)	Sealcoat Elastic (652)
Clear seal (460)	Sealoflex (659)
Code Blue (544)	Sealclear (660)
Protectosil BHN (381)	Sealobond (661)
MasterProtect H 400 (438) (replaces BASF Enviroseal 40) (365)	Euclid Baracade Silane 40 (1010)
Masonry Guard (Weather-bos) (642)	SpecChem SpecSilane 40 WB (1265)
MAPEI Mapelastix (1070)	CWI Williamette Valley Fastpatch EJC-25 (1210)

SIDEWALK TOPPING

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Epoxy Overlay/Polymer Concrete (1063)	Starpatch Supa-Fine Patching (312)
Polymer Concrete (Steilacoom) (437)	System 400 (443)

SPECIALTY PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Dam Sac Rehab Mix (420)	Target Sacking Mix (707)
Basalite Bridge Deck Concrete and HP Bridge Deck Overlay with Fibre (426) only as Specified by MoTI	Con Sys - Rebar Supports (1227)
CMax Cement (620)	

PORTLAND RECYCLED CONCRETE AGGREGATE MATERIAL (RCAM)

RCAM is a blend of Recycled Concrete Aggregate (RCA), Recycled Asphalt Pavement (RAP) and other accepted virgin aggregate sources meeting SS 202.

RCAM may be an aggregate source complying with SS 202 and Special provisions; and has had material testing meeting based on and meeting SS 203 RCAM.

ACCEPTED SUPPLIERS	ACCEPTED PRODUCT

PRESERVATIVES

WOOD TREATMENT

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 908, Preservative Treatment - Wood Products, qualifies under this section.

PROPRIETARY ANCHORING SYSTEMS

Geotechnical Anchors – Soil, Rock, Soil Nails, Micro Piles, Drill Drains

Note: Rock and Soil Anchors, Soil Nails, and Micro Piles are for engineered applications and requirements are site specific in accordance with the drawings, specifications and contract documents.

Engineered slope stabilization using Rock and Soil Anchor, Soil Nail, Micro-Piles, and Drill Drain products are engineered solutions based on the site requirements and applications. Products are specified as required for the engineering solution.

Corrosion needs to be considered in long term applications.

Special Provisions will identify corrosion monitoring and specifications for the Proprietary Anchoring System. The following tests may but not limited to, apply: SSPC CS 23.00/AWS C2.23M; AWS C2.23/C2.23 M 2003; ASTM B833-09; ASTM A588/A588M -10; ASTM A153/A153M -09; ASTM B695 – 04 (2009); ASTM A123/A123M -12;ASTM A143/A143M -07.

ACCEPTED SUPPLIER/MANUFACTURER	ACCEPTED SUPPLIER/MANUFACTURER
Con Tech (1218)	DywiDag

ANCHORS (Mechanical and Adhesive)

For structural and load carrying applications, products for anchoring require an engineering evaluation for strength, creep, durability, and other performance factors to verify suitability for the specific intended use.

Note: Application of anchors are designed and engineered applications in accordance with manufacture's load capacity and use, and installed environment.

Particular installation and preparation (cleanliness) - dry, wet, and water filled environments may affect load capacities and capabilities.

MECHANICAL TYPE

ACCEPTED MANUFACTURERS	ACCEPTED PRODUCTS
Hilti (557) (1067)	Hilti HSL (557) Hilti HY Anchor (1067) Hilti HDA Undercut Anchor (1067) Hilti Kwik Bolt TZ expansion anchor (1067) Hilti Kwik Bolt 3 expansion anchor (1067)
DEWALT/Powers Fasteners (758)	DEWALT/Powers Power Stud SD2, SD4, and SD6 (758) DEWALT/Powers Atomic Undercut (758) DEWALT/Powers Screw - Bolt (758) DEWALT/Powers Chem-Stud (759)
Red Head (559)	
Simpson (1079)	Simpson Strong Tie -Strong-Bolt 2 (1079) Simpson Strong Tie - Wedge All (1079)
UCAN Fasteners(1242)	SZ Heavy Load Anchor (1242)

EPOXY or ADHESIVE TYPE

ACCEPTED MANUFACTURERS	ACCEPTED PRODUCTS
Hilti (557) (1067)	Hilti HIT HY 10 Plus (1067) Hilti HIT HY 100 (1067) Hilti HIT HY 200 (1067) Hilti HIT HTE 50 (1067) Hilti HIT RE100 (1067) Hilti HIT RE500 V3 (1067)
Dewalt/Powers Fasteners (758)	DEWALT/Powers AC Gold 100 (758) DEWALT/Powers Pure 50 and 110 (758) DEWALT Powers PE 1000 (758)
Red Head (559)	Epcon A7+
Sika (1133)	Sika AnchorFix-2 Arctic (1133) Sika AnchorFix-2001 (1133) Sika AnchorFix-3001 (1133)
Simpson (1079)	Simpson Strong – AT-XP in conjunction with AT, SET, SET-XP, EDOT (1079) Simpson Strong Tie-Anchor Systems (1079)
UCAN Fasteners(1242)	FLO-ROK FR6 SD (1242)

OTHER EPOXIES

CIA Gel 7000C (545)	Acrylic-Tie AT (864)
HST200 (597)	Epoxy-Tie SET, ET, ETF (902)
HS200 (597)	Vinylester Glass Capsule Adhesive VGC (903)
JR200	Dayton Superior All weather J51 (1063) (also known as Unitex Pro Poxy 400)
Hi-Tech Structural Gel (687)	

PROPRIETARY STRUCTURES

Note: The application/selection of a proprietary structure must fulfill the designed parameters and requirements desired for the location and use. Each application is unique to the engineering requirements and the selection will be related to those requirements such as life cycle, economics, and functionality.

Note: Supplier/Manufacturer is to provide to the installer/contractor “Certification of Installation” that the Proprietary Structure meets the Supplier/Manufacturers installation and construction requirements upon satisfactory completion of the installation. The “Certificate of Installation” is forwarded to the Ministry for a record of the constructed Proprietary structure.

CONCRETE ARCHES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RECO Tech Span (264)	BEBO Concrete Arches (949)
Shotcrete Arch Note: unbound tendons are not permitted	

STEEL ARCHES AND PIPES

Pipes to conform to current CSA-G401-14 requirements, SS 320, and as specified in the Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Armtec	AIL
Armtec Mini-Span (843)	AIL Super-Cor Bolt-a-Plate (655)
Armtec Multi-Plate & Super Span (850)	AIL Dur-A-Span (1036)
Armtec Bridge-Plate (821)	AIL Best Kote Structural Plate (1036)
Armtec Tunnel Liner Plate (821)	AIL Ultra-Core (1036) (Trial Use only expires Dec. 31, 2022)
Armtec Strata CAT Coating (821)	
Canada Culvert CorPlate (1156)	Siderar Arsa MP 150 AND 152S (775)

MSE RETAINING WALLS SUPPORTING BRIDGE ABUTMENTS

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-14 on Section 6.15 and 6.19 for details on MSE abutment and wall requirements.

BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (TRUE ABUTMENTS)

MSE WALLS WITH NON EXTENSIBLE REINFORCEMENT STRIPS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Hilfiker RSE Smooth Face (436)
AIL Vist-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)
Hilfiker Eureka Reinforced Soil (436)	Reinforced Earth Terra Class (264)

BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (FALSE ABUTMENTS)

MSE WALLS WITH NON EXTENSIBLE REINFORCEMENT STRIPS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Hilfiker Eureka Reinforced Soil (436)
AIL Vist-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)
Hilfiker RSE Smooth Face (436)	Reinforced Earth Terra Class (264)

MSE WALLS WITH EXTENSIBLE REINFORCEMENT STRIPS

ACCEPTED PRODUCTS
Tensar ARES Retaining Wall System (Nilex) (719)
<i>ARES walls with full height facing panels are limited to a maximum wall height of 7.5 m and shall only be used where the estimated differential settlement is less than or equal to 1/500. ARES walls with 3 m nominal segmental facing panels or with 1.5 m nominal segmental facing panels are limited to a maximum wall height of 9 m.</i>

RETAINING WALLS (Supporting Loads)

RETAINING WALLS - (up to 5m in Height) Wire Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evergreen Wall (195)	Modular Gabions (1028)
Maccaferri Gabions PVC (124)	Strata Slope Systems (901)
Maccaferri Terramesh (836)	Tensar Sierra Scape System (719)
Hilfiker Wire Walls (various products) (436)	

NOTE: Approval for systems using wire facing is conditional on compliance with AASHTO Standard Specifications for Highway Bridges, corrosion-resistance durability requirements. The design life of Wire Faced MSE Walls shall be 100 years unless otherwise specified by the Ministry. Wire Faced Walls shall be designed for site specific environment and exposure conditions. Exposure to drainage, runoff and spray containing de-icing salts shall be specifically addressed by a corrosion evaluation during the design phase. Corrosion of Wire Faced MSE walls has occurred prematurely on a couple of Ministry walls and a review of Wire Faced MSE walls is being undertaken by the Ministry to find and address the cause.

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-06 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 5m).

RETAINING WALLS - (up to 5m in Height) Concrete Faced Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Allan Block (324)	Magnumstone (995)
Basalite Geowall Max (931) (formerly known as Standard Unit Keystone)	Stresswall (174) <i>Hollow panels not permitted</i>
Basalite Geowall Pro (931) (formerly Keystone - 1.33 Elite and Compac (931))	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
Landmark Retaining Wall System (1153)	Tensar Mesa Retaining Wall System (719) Nilex
Lock-Block Ltd.(074) with geosynthetic reinforcement. Facing to be textured with other materials as required by the specifications or contract	Versa-Lok Wall System (685)

NOTE: In areas of the Province where the number of freeze–thaw cycles will exceed 3000 over the design life of the project (Review for compliance to ASTM C1262 and ASTM C1372), dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition.

NOTE: All modular block systems with individual block heights of less than 300 mm. must have the top 4 courses grouted. Additional mechanical connections may be required for seismic design considerations.

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-06 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 5m).

RETAINING WALLS - (up to 9m in height) Wire Faced Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall Wire Wall with Mesh Reinforcement (1036)	Layfield Wire Mesh Wall (987)
Armtec Wire Mesh Wall Systems (949)	Nilex Tensar Sierra Scape (719)
Hilfiker Wire Walls (various products Art Weld Gabions) (436)	Maccaferri Terrawall (1008)

NOTE: Approval for systems using wire facing is conditional on compliance with AASHTO Standard Specifications for Highway Bridges, corrosion-resistance durability requirements. The design life of Wire Faced MSE Walls shall be 100 years unless otherwise specified by the Ministry. Wire Faced Walls shall be designed for site specific environment and exposure conditions. Exposure to drainage, runoff and spray containing de-icing salts shall be specifically addressed by a corrosion evaluation during the design phase. Corrosion of Wire Faced MSE walls has occurred prematurely on a couple of Ministry walls and a review of Wire Faced MSE walls is being undertaken by the Ministry to find and address the cause.

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-06 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 9m).

RETAINING WALLS - (up to 9m in height) Concrete Faced Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Lock + Load (720) <i>facing slope shall not be steeper than 10 vertical to 1 horizontal if geogrid reinforcement is specified Miragrid XT or Stratagrid geogrid shall be used</i>
AIL Vista-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	Tensar Ares (Nilex) (719) Tensar Mesa Retaining Wall System (Nilex) (719)
Allan Block (324)	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
Criblock (942)	Reinforced Earth GeoMega (264)
Hilfiker Eureka Reinforced Soil (436)	Reinforced Earth TerraPlus (862)
Hilfiker RSE Smooth Face (436)	Reinforced Earth TerraClass (264)
ISOGRID (146) Discontinued	Strata Slope System (901) System acceptance based on Strata's geosynthetic products
Layfield Strengthen Soil Retaining Wall (987)	KeySystem (931)
VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)	Landmark Retaining Wall System (1153)

NOTE: In areas of the Province where the number of freeze –thaw cycles will exceed 3000 over the design life of the project (Review for compliance to ASTM C1262 and ASTM C1372), dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition.

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-06 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 9m).

RETAINING WALLS (Supporting Loads)-

INTERLOCKING CONCRETE GRAVITY BLOCK (up to 5m in ht.) with Geosynthetic Soil Reinforcement

Products manufactured are to follow the Interlocking Concrete Gravity Block Standard Specification Section in Special Provisions or as follows:

Precast monolithic inter locking concrete blocks have the following nominal dimensions: 750mm x 750mm x (1500mm or 750mm) +/- 6mm long chamfered on all sides or as accepted by the Ministry's RPL standing Committee.

Blocks require manufacturers' legible identification number and name.

Blocks shall have adequate engineered shear key with approximately 12 mm clearance around the shear key; and galvanized steel lifting loops (fabricated from a min. 16 mm nominal dia. galvanized 7 Strand pre-stressed wire cable nominal breaking strength of 16 metric tonnes) as engineered by a Registered Engineer in the Province of BC and anchored sufficiently into the block to limit pull out.

Concrete be poured monolithically with fresh concrete having nominal design strength of a min. 30 MPa, or as required in Special Provisions, and entrained air content of 5 to 7% as tested by plastic concrete testing.

Concrete exposed surfaces shall have a smooth grey finish conforming to CSA 24.4-09 clause 26.2.5 Finish Grade or as required in Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Lock-Block Ltd.(074) <i>with geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>	Lock-Block Ltd. Rod Lock (074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>
Redi-Rock (822) <i>with geosynthetic reinforcement</i>	Octa Block (1163)

INTERLOCKING CONCRETE GRAVITY BLOCK (up to 9m in ht.) with Geosynthetic Soil Reinforcement

Products manufactured are to follow the Interlocking Concrete Gravity Block Standard Specification Section in Special Provisions or as follows:

Precast monolithic inter locking concrete blocks have the following nominal dimensions: 750mm x 750mm x (1500mm or 750mm) +/- 6mm long chamfered on all sides or as accepted by the Ministry's RPL standing Committee.

Blocks require manufacturers' legible identification number and name.

Blocks shall have adequate engineered shear key with approximately 12 mm clearance around the shear key; and galvanized steel lifting loops (fabricated from a min. 16 mm nominal dia. galvanized 7 Strand pre-stressed wire cable nominal breaking strength of 16 metric tonnes) as engineered by a Registered Engineer in the Province of BC and anchored sufficiently into the block to limit pull out.

Concrete be poured monolithically with fresh concrete having nominal design strength of a min. 30 MPa, or as required in Special Provisions, and entrained air content of 5 to 7% as tested by plastic concrete testing.

Concrete exposed surfaces shall have a smooth grey finish conforming to CSA 24.4-09 clause 26.2.5 Finish Grade or as required in Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Lock-Block Ltd.(074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>	Lock-Block Ltd. Rod Lock (074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>

INTERLOCKING CONCRETE BLOCK RETAINING WALL 7 STRAND PRESTRESSED WIRE CABLE

ACCEPTED MANUFACTURERS/SUPPLIERS	
Lock-Block Ltd. (074)	Lock-Block Ltd. Rod Lock(074)

INTERLOCKING CONCRETE BLOCK CONCRETE BARRIER

ACCEPTED MANUFACTURERS	

INTERLOCKING CONCRETE BLOCK RETAINING WALL (UP TO 5m IN HT.)

ACCEPTED MANUFACTURERS	
Lock-Block Ltd. Rod Lock (074)	

ACCEPTED INTERLOCKING FORM PATTERN

Forms used in the making of the interlocking concrete gravity blocks.

ACCEPTED MANUFACTURERS/SUPPLIERS	
Lock-Block Ltd. (074)	Lock-Block Ltd. Rod Lock(074)

RETAINING WALLS (Non-Supporting Loads)

LANDSCAPING WALLS – (UP TO 3M IN HEIGHT)

Supporting Retaining Walls (Retaining Walls under 5m and 9m categories) are included in this category and may be used under this category.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Allan Block (324)	Envirolok (1032)
Hilfiker Wire Walls (various products) (436)	Stabil Earth Systems Inc. Stabil Earth System (1151)
Terraforce (469)	Denbow Cascadia Green Wall System (1190)
Macaferri Green Terramesh (867)	Flex MSE (1236)
Strata Slope Systems (901)	
Basalite Geowall Valleystone (931)	

Note: Landscaping Walls are not to be designed for supporting for the loading of the shoulder or travelling lane or structures.

A Landscaping Wall Product needs to have prior acceptance for a product's application that has Design Life of less than 75 years.

Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-06 Section 6.12 and 6.14 for details on abutment and wall requirements.

SLOPE RETENTION SYSTEMS – (UP TO 5M IN HEIGHT)

NOTE: The following Slope Retention System products are limited to a slope angle of up to 70 degrees. Systems installed steeper than 70 degrees must qualify as a retaining wall. A Slope Retention Product needs to have prior acceptance for a product's application that has Design Life of not less than 75 years.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Hilfiker Wire Walls (various products) (436)	Detalok (791) Discontinued and Replaced with Flex MSE (1236)
Tensar Sierra Slope Retention System (719)	Strata Slope System (901)

SLOPE RETENTION SYSTEMS - (UP TO 9M IN HEIGHT)

NOTE: The following Slope Retention System products are limited to a slope angle of up to 70 degrees. Systems installed steeper than 70 degrees must qualify as a retaining wall. If the product is to be used as a slope embankment application, then the wire needs to be galvanized to have a minimum service life of 50 years and a corrosion rate calculated for the application.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Tensar Sierra Slope Retention System (719)	Strata Slope System (901)
Hilfiker Wire Walls (various products) (436)	

ROCK FALL SYSTEMS

ROCK FALL SLOPE SYSTEMS

NOTE: Products accepted as follows can be applied to a slope according to the manufacture's/design requirements to stabilize and secure/capture loosening materials but not to perform as a retaining system.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geobrigg System (906)	Maccaferri System (1043)
Trumer Schutzbauten Systems (985)	

ROCK FALL CATCH FENCES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geobrigg Rockfall Protection System (1023)	Trumer Schutzbauten Rock Fall Protection System (985)
Maccaferri High Energy Rockfall Barrier (1043)	

ROCK FALL PROTECTION MESH

As specified in Standard Specifications 207 and Special Provisions.

SALT STORAGE STRUCTURES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Diamond Fabric Shelter (938)	All Weather Fabric Shelters (788)
Sprung Structures (1169)	Norseman Portable Shelter (922)

SOUND ATTENUATION WALL SYSTEMS

Note: Structural design of the wall must meet Ministry requirements for the project and drawings will be signed off by an engineer registered in BC. Sound transmission is assessed against Ministry's absorption and reflective criteria. Aesthetic considerations need to be assessed for the project work. Note: In areas of the Province where the number of freeze –thaw cycles will exceed 3000 over the design life of the project, dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition. Note: Special Provisions may identify material type of the wall for conditions, aesthetic, or other factor in the wall's performance or application.

SOUND ABSORPTION WALLS

Wall absorption specifications are based on ASTM C423 with minimum 0.8 sound absorption coefficient.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Whisper Wall (865)	SoundSorb (1019)
Durisol Sound Absorption Noise Barrier (950)	AIL Silent Protector (1036)
	Forster Noise Barrier Elements (1202)

SOUND REFLECTIVE WALLS

Concrete

Note: Sufficient cover required for rebar (50mm min.) for corrosion protection on concrete sound reflective walls must be engineered for corrosion protection at locations within the province. Concrete Sound Walls applications for Lower Mainland and Southern Vancouver Island must use epoxy rebar. For locations elsewhere in the Province, rebar must be protected sufficiently or designed to meet project's corrosion requirements and environment..

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AB Sound Fence (324)	Stone Tree Concrete Fence System (1041)
Canus Natural Art Fencing (1049)	DDS Concrete Cedar Fence Noise Wall (1279)

Metal

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Forster Noise Barrier Elements (1202)	

Plastic or Vinyl

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Tuff Barrier (1036)	

Wood

ACCEPTED PRODUCTS
<p>FP Innovations (1149) Wood Sound Abatement Wall Wall based on submitted Drawing dated Feb. 07, 2012 on file. Drawings need to show horizontal wood beams need to be internally bounded together to prevent warping and separation from drying. Expected Service life is about 25-30 years and the wood wall is less than 50 - 75 years with concrete, metal, plastic, or other durable materials. Fabrication and Installation is to follow FP Innovation's Engineered drawing on file. Wood Wall Material Manufacturers – Western Forest Products, Teal Jones, Interfor (Wood Preservative Treatment - Taiga, Sherwood, Western Wood Preservatives).</p>

STRUCTURE PILE REPAIR

ASTM Test requirements are ASTM D570, D638, D796, D790, and D2583 Tests. Repair must be engineered by a BC P. Eng.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Simpson Strong Tie FX-70 Structure Repair System (1079) (TRIAL USE Expires Dec 31, 2017)	

RAILWAY CROSSINGS

FLANGWAYS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
HI-Rail (166)	Polycorp Railseal Interface (167)
PPI Rubber Interface (168)	

SURFACES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
HI-Rail (rubber) (166)	Rail-Way Inc.(concrete & rubber) (170)
Omega (concrete) (996)	

REINFORCING POLYMERS

GLASS FIBRE REINFORCING POLYMERS

Glass Fibre Reinforced Polymer (GFRP) products must meet CSA S807-10 “Specification for Fibre-Reinforced Polymers” and CSA S6-06 (CHBDC).

Use of GFRP products manufactured by companies meeting CSA S807-10 only permitted when specified in Special Provisions or by Ministry Representative.

Current product submissions are under review.

REINFORCING STEEL

Any steel products such as uncoated, epoxy, galvanized, stainless, etc. which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 412 (Table 412A),

Concrete Reinforcement qualifies under this section.

(see SS 412.34.03 for Mechanical Coupler Splices requirements)

ROAD MATERIALS – TEMPORARY

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Terra Mats (262)

REST AREA IMPROVEMENT

COMPOSITING TOILETS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Clivus Multrum (733)	Phoenix System (717)

ENVIRONMENTAL CLEANUP

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BOE 505/BOE 510 (626) <i>Discontinued</i>	

MISCELLANEOUS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Eco-Superwood (330)	Concrete Blocks (451)

PICNIC TABLES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Dominion Precast (Terrazzo Finish) (536)	Maintenance Free Benches & Picnic Tables (538)

WASTE RECEPTACLES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Rough Country (196)	
Hide-A-Bag (Rollins) I BC Special Bear Proof and I Mini Special Bear Proof (077)	Refuse/Recycling Container (32&45&64&90 gal capacity) (539)

SOIL STABILIZATION

ROADWAY BASE

ASPHALT EMULSIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SS-1	

B.C. STABILIZER

1. Lignosulphonate

<i>Test Parameter</i>	<i>Ammonium</i>	<i>Calcium</i>	<i>Sodium</i>
Solids (wt %)	53.0	51.3	53.2
Water (wt %)	47.0	48.7	46.8
Relative Density	1.23	1.26	1.25
pH (1:1 with water)	4.2	6.8	5.2

Sugars (% of solids)	14.3	3.8	19.7
Ash (% of solids)	3.2	18.0	16.2
Viscosity (cp)	250	660	200

2. SS-1 asphalt Emulsion component in accordance with Specifications Section 951 of the Standard Specifications for Highway Construction.
 3. Water component that is clean and soft with a conductance less than 200 V, ph @ 6.0 to 8.0 and fully compatible with SS-1 asphalt Emulsion.
- J. Stabilizer mixture at equal parts asphalt Emulsion, lignosulphonate and water.

Test Parameter

SS-1 asphalt emulsion (volume %)	33.3
Water (volume %)	33.3
Lignosulphonate (volume %)	33.3
Relative density 1.09 – 1.10 Solids (weight %)	37.0
Solids (volume %)	31.3
7.0 – 8.0 Viscosity (cp)	50.0
Stability 24 hour	Stable
Compatibility	Compatible

CALCIUM CHLORIDE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 991 Calcium Chloride and Sodium Chloride shall apply.

LIGNOSULPHONATES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Calcium Lignosulphonate (102)	Sodium Lignosulphonate (103)
	Rayonier (161)

SUBGRADE BASE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Base Seal (568)	ISS-2500 (549)
CBR Plus (169)	Lime (073) Hydrated and Quick Lime (073)
Con-Aid (415)	Lite-Con (432)
Consolid Blend (458)	Mountain Grout Soil Stabilizer (849)
Conservex CX (with lime) (457)	Paczyme (072)
Descobond (070)	Soil-sement (510)
Enduraseal (120)	Top Seal (568)
Elastomer Method SFPP2000 (624)	Geosolid (928)
Geol-Bind (071)	

FOUNDATION BASE

EXPANDING INJECTION SOIL STABILIZERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Poly Flash (formerly Uretek) (956)

STEEL & IRON

GENERAL

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 911 – Steel & Iron and Section 582 – Concrete Curb & Gutter & Storm Drainage, qualifies under this section,

Culvert Pipe, Half-Round Flume
Catch Basin Boxes and Covers
Cast Iron Frames for Cast Iron Basins and Manholes

STEEL & WIRE FENCING MATERIALS

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 316 –under the above heading, qualifies under this section.

PRE-CAST FENCE FOOTINGS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Chain Link Fence Footing (Ericsson Man.) (808)	

TIMBER

GLUE LAMINATE

Products in this category are considered a part of the engineered solution requiring analysis and design on a case by case basis, and shall meet the requirements of the Ministry of Transportation and Infrastructure Standard Specification for Highway Construction Section 905 Timber – Glue Laminated.

TIMBER MATERIALS

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 903, Timber Materials, and 904, Treated and Untreated, Fabrication & Handling, qualifies under this section.

TRAFFIC CONTROL DEVICES

TRAFFIC CONES

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction of Section 971 – Plastic Traffic Cones, qualifies under this section.

DELINEATION

ACTIVE DELINEATION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Sigma Technologies SMG (Barrier Side Mount) (171)	J.S.Foster PF-8 (Post Mount) (785)
Sigma Technologies TM1 (Barrier Top Mount) (171)	HIL-Tech LEDline (Barrier Top Mount) (959)
Sigma Technologies TM2 (Upgradeable Top Mount) (171)	Item Ltd. iMarker 702 (176)
Harding Smartstud Wayfarer (173) Harding Level Smartstud (1232)	Item Ltd. iMarker 700 (176)
SunBeacon SB104 (Barrier Top Mount) (175)	

ILLUMINATING DELINEATION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Illuminated Bollards (982)	Interprovincial Traffic – National LED Chevron sign (1197)
Roadway Traffic Signs “Open/Closed Sign” (1198)	Interprovincial Traffic – STI Open/Closed LED Sign (1198)
UNA Ltd Unipart Dorman Vari-text Signage (1118) Not to be used for speed signing	

ILLUMINATING LEDS DELINEATION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
LEDline (959) (MoT Barrier tested – test section req.)	Lanelight MLK 150 (941) (MoT – test section req.)

STATIC ROAD EDGE DELINEATION

Delineation as follows:

- 1) Sheeting of reflector to meet ASTM Type 9 or greater,
- 2) Reflector is dual sided for two lane-two-way highways, single sided for divided highways.
- 3).Traffic Engineering to approve size to equate to a 6 inch X 6 inch square telespar post mounted shoulder delineators in terms of reflective power output.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
4" Flexible Marker Posts Safety-flex Marker (441)	Ridan Composite Marker (960)
Carsonite (109)	Steel Flex (1052)
Polytubes Highway Post (899)	Hel Delineator (1172)
	Glasforms Delineators (1211)

REFLECTORS

CONCRETE BARRIER MOUNTED REFLECTORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Astro Optic B1 (235)	Ennis Flint Model 80 replaces Stimsonite 965 (1066)
Rayolite 2001 (154)	Ennis Flint Model 80 replaces Stimsonite 960 (1066)

Rayolite 2002 (154)	BAM Flexible (177)
Rayolite 2003 (154)	Davidson PCBM T12 (998)
Rayolite G-1 Way (154)	Artuk FT-2 (895)
Rayolite G-2 Way (154)	3M Scotchlite Linear Delineation System (851)
Swareflex 3350-Glass bead (715)	Item iMarker (176)
Swareflex 3351-Glass bead (715)	Irwin Hodson "A" Shape HTR Barrier Reflector (1215)

STEEL BEAM BARRIER MOUNTED REFLECTORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Irwin Hodson Monarch Reflective Device (1103) (only W beam)	

SURFACE REFLECTORS

RAISED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Ennis Flint model 980 replaces Stimsonite 980 (1066)	Rayolite AA ARC-II series (154)
Ennis Flint Model C80 replaces Stimsonite 88 (1066)	Rayolite 2002 series (154)
3M 290 series (851)	Apex 921 AR (179)
Rayolite 8700 series (154)	Item iMarker 702 (176)
Rayolite All Acrylic series (154)	80/C80 Reflector (999)

MISCELLANEOUS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Traf-Fix Flags (291)	Portable Changeable Message signs (863)
Traf-Fix Stand (292)	Super bright roll-up signs (663)
Traf-Fix Signs (293)	Versa Bump (319)
Superwood (330)	Qwick Kurb (951)
Lifeguard Channelizer (669)	Portable Changeable Message Sign Ver Mac (1194)
Barrier Stand (750)	FG300 EFX (1130) Delineator Post and Base System with 4" Diamond Grade Reflective Bands with a 6 inch separation.

TRAFFIC SIGN POST BASES

CONCRETE SINGLE POST SIGN BASES

ACCEPTED PRODUCTS
Ericsson (523) Ericsson Sign base weights must be close to design requirements. In complying with Drawings SP635-3.6.3;SP635.1.1.36;SP635.1.1.45; and SP635.1.1.46 Product is acceptable with Ericson's square galvanized steel tubing inner sleeve protruding a minimum of 35mm from the top level of the concrete base.

ROUND SIGN POST - BREAKAWAY BASE

ACCEPTED PRODUCTS	
Quickfix Sign Base QF 001 (182)	Kalifix (900) (note: contact HQ Traffic for trial use)
SkiRil Sign Breakout- Flush Mounted Breakaway Base (Oct 2005) (183)	

ALTERNATE BACKFILL FOR CONCRETE SINGLE POST SIGN BASES

ACCEPTED PRODUCTS	
BMK Polecrete (989)	Chemque Q-Set 250 (1110)

ALTERNATE SINGLE SIGN BASE ATTACHMENT

ACCEPTED PRODUCTS	TRIAL PRODUCTS
Springy Base (1089)	Adapt-Eze CBM-1000 (1157)

SIGNAGE

Check with Ministry Signage contact for accepted signage manufactures and contacts.

ACCEPTED MANUFACTURERS	ACCEPTED MANUFACTURERS
Astrographics Industries Ltd.	Sherine Industries Ltd.
Empire Signworks Inc.	Tran Sign (1999) Ltd.
ATS Traffic British Columbia Ltd.	Valley Traffic Systems Inc.
	Zumar Industries Ltd.

REFLECTIVE SHEETING for SIGNAGE

Products currently meet ASTM 4956 - Type 1, Type 3 and 4, and Type 9 or better - Type 11 minimum standards for retro-reflectivity.

ACCEPTED PRODUCTS	
Avery Dennison Products (763)	3 M Products – (and 3930DS and 4090DS) (1077)
ORAFOL Products ORAFOL 7900 Series Prismatic Retro-reflective Sheeting ASTM Type 9 can be used and monitored for application(1185)	3M Advanced Engineer Grade Prismatic AEGP – 7930 (1077)

TRAFFIC MARKING MATERIALS

GLASS BEADS

Glass bead product must meet the requirements of AASHTO M 247-13 with a minimum roundness value of 70% true spheres qualifies under this section. Manufacture/suppliers are to provide independent testing from accredited North American testing laboratories results showing compliance to current AASHTO M-247. Heavy metal concentrations must be below acceptable minimums. The following max. concentrations of contaminants for Arsenic is 50mg/kg (50 ppm); Lead 90 mg/kg (90 ppm); and Antimony 75 mg/kg (75 ppm).

ACCEPTED PRODUCTS	
All Potters Glass Beads - Normal, Ultra 1.9, Visilok, Visimax plus white, Visiskid, Visiultra,EHP, Visimax Plus Yellow, Visi Bead, and VISIMAX White and Yellow (1145) Potters UltraGuard (1145) Trial Use	McStars Glass Beads (1189)

CERAMIC BEADS

ACCEPTED PRODUCTS
3M All Weather Elements Series (1077) (for wet night reflectivity pavement markings)

PERMANENT PAVEMENT MARKING MATERIALS

Ministry Permanent Pavement Marking - Test Section established summer 2013

Ministry's test idea of using/testing its epoxy and visible hard durable material (quartz) inlaid line.

Permanent Paving Marking Line was laid down in 2013 and has presence after each winter snow plowing has abraded paint off the pavement. Markings are mostly still present and visible through several winters and each year the line is repainted for reflectivity purposes.





Ministry Test Section located Hwy 5 -Truck Climbing Lane approximately 18 Km south bound lane from Hwy 1and Hwy 5 intersection.

DURABLE PAVEMENT MARKING MATERIALS

Select correct material type to asphalt pavement. For example, some Thermoplastics are specific for Asphalt applications. Applications of Thermoplastics or MMA on existing paint or other durables requires to be evaluated for adhesion, and pavement marking like paint may need be eradicated before applying a durable as well as some Thermoplastics or MMA may not adhere to older durable pavement marking materials because of grade of thermoplastic or material type differences.. Applications follow ASTM testing and requirements.

Depending on application, Durable Pavement Marking materials can be Wet Night reflective if they meet Wet Night High Visibility Striping requirements

EPOXY

ACCEPTED PRODUCTS	
Epoplex LS50, LS65, LS65QS (918 & 919)	Alta 400 (1209) (modified urethane)
HPS-4 (1137)	Alta 400 (1209) (modified Polyacrylate)
PolyCarb-Mark 55.4 - Dow (078)	Swarco MFUA-10 System Modified Poly Acrylate (947)

THERMOPLASTIC

ACCEPTED PRODUCTS	
Interprovincial Traffic Services Can 100 (White) (184)	Swerdna 31-Series (1072) (Acceptance expires December 31st 2016)
Lafrentz System 300 (1017) (White and Yellow)	
Ennis Flint Thermoplastic Products(1030) Various Types of Thermoplastic Products (Selected Ennis Thermoplastic product requires appropriate proper application for desired results at specific location)	3M All Weather Thermo - Type 1, Type 2, and AWT with intermix Elements (Liquid Pavement Marking) (1077)
Swarcotherm Hydro White (947)	Hitex HiBrite and Hitex Spray (1262)

MMA - METHYL METHACRYLATE (SPLATTER LINE)

A splatter line is a line that is laid down in a minimum thickness with an irregular surface as part of the top profile of the line. A splatter line can be surface applied or in a groove.

ACCEPTED PRODUCTS	
HPS-7 (1137) (note: splatter line)	Pathfinder - Lafrentz (1017) (note: splatter line)
Alta 600p (1209) (profiled bump line)	Hitex Puma Road Marking Grades (1262)

MMA - COLD PLASTIC

ACCEPTED PRODUCTS	
Swerdna - PLR FP2K Cold Plastic (1073) (Acceptance expires December 2017)	

MMA - METHYL METHACRYLATE (CONTINUOUS LINE)

A continuous line is a line that is laid down in a minimum thickness with continuous surface smoothness unless there is a profile on top of the minimum thickness. A continuous line can be surface applied or in a groove.

ACCEPTED PRODUCTS	PRODUCTS
HPS-6 (1137) (note: continuous line)	Lafrentz System 400 - (1017) (note: continuous line)
Alta 600E (1209) (Extruded flat line)	Alta 600s (1209) (spray flat line)
Hitex Puma Spray Road Marking Grades (1262)	

MULTI POLYMERS

ACCEPTED PRODUCTS	
Ennis Flint HPS-8 (1137) TRIAL USE Only expires December 31st 2019	

POLYUREA

ACCEPTED PRODUCTS	PRODUCTS
Epoplex LS90 (919)	Magnolia Advanced Materials MagnoMark P30 (1260)
3M LPM 5000 (1077)	Swarco MFUA-12 Poly Urea (947) (Trial use only expires December 31st 2018)

TAPE

ACCEPTED PRODUCTS	
3M Stamark High Performance (380IES) (1077)	

TEMPORARY TRAFFIC MARKING MATERIAL

Markings for construction and other applications.

ACCEPTED PRODUCTS	
3M - Removable Pavement Marking Tape (with wet reflectivity) (410)	3M - Removable Blackout Pavement Mask (412)
Flex-O-Line FOL 200 (084)	Durable Pavement Marking Tape Ss. 1000 (413)

WET NIGHT HIGH VISIBILITY TRAFFIC MARKING

WET NIGHT STRIPING SYSTEMS

Wet Night High Visibility Striping Systems have a:

- surface profile characteristics with standard glass bead for enhanced reflectivity to meet ASTM E2177 wet recovery; or
- flat or surface profile characteristic with 3M All Weather Elements for enhanced reflectivity that when combined can meet ASTM E2832 (E2176) continuous wet night and ASTM E2177 wet recovery.

Glass beads and other standard bead types can give desired wet night reflectivity characteristics of ASTM E2177 wet recovery when used in conjunction with a proper surface profile of a durable marking line.

3M All Weather Elements give desired wet night reflectivity characteristics of ASTM E2832 (E2176) continuous wet night and ASTM 2177 wet recovery when used in conjunction with the proper flat line or surface profile of a durable thermoplastic, MMA, or epoxy marking line.

Marking tape like 3M's Stamark 380 AW durable marking tape meets both ASTM E2832 (E2176) continuous wet night and ASTM E2177 wet recovery performance.

Special Provisions to specify the following requirements:

- Profile Surface;
- Durable pavement marking material requirement for location and application;
- light milling of existing traffic marking material to ensure clean pavement surface for adhesion of durable material;
- solid line with profiled marking on the surface of the durable marking material to provide uneven surface marking for light retro-reflectivity;
- line type for desired stripping application for line reflectivity;
- surface and/or sub-surface/inlaid profile requirement for the durable wet night high visibility stripping system when abrasion from snow removal is very strong;
- ASTM E2832 (E2176) continuous wet night and/or ASTM E2177 wet recovery performance requirements; and
- Edge, median, and/or lane pavement marking requirements.

TAPE

ACCEPTED PRODUCTS Note: Continuous Line –Tape	
Stamark 3M 380AW (1077)	

THERMOPLASTICS

ACCEPTED PRODUCTS Note: Continuous Line - Thermoplastic	ACCEPTED PRODUCTS Note: Splatter or Dotted line - Thermoplastic
RainLine Profile Line (666)	LaFrentz Sno Pro (1017)
LaFrentz Sno Pro (1017)	
3M All Weather Thermo/Intermix Elements (1077)	
Hitex RainSafe (1262) (Can only to be used as a flat line when specified in Special Provisions)	

MMA - METHYL METHACRYLATE

ACCEPTED PRODUCTS Note: Continuous line - MMA	ACCEPTED PRODUCTS Note: splatter or dotted line - MMA
HPS-6 Profile Line (1137)	LaFrentz Pathfinder (1017) (Splatter on pavement)
Alta ASMA Series 800 (1209) (profiled wet night)	HPS-7 (1137)
LaFrentz Pathfinder (1017) (splatter on solid MMA line)	

SPECIALTY TRAFFIC MARKING APPLICATIONS

ACCEPTED PRODUCTS Other Plastic or Epoxy	
PolyCarb-Mark 55.4 - Dow (078)	Ennis-Flint Trading - Hot Tape (1069)
Swarco Preformed Thermoplastic Markings (947)	PreMark – Vizigrip (1080)
Ennis-Flint Flame Tape (1030)	Traffic Patterns and Traffic Patterns XD (1091)
DuraTherm (1061)	

TRAFFIC MARKING PAINT

The Ministry has an interest in using trial resins such as a Dow polymer resin 5408 in traffic marking paints and a traffic marking paint having such a resin may be used on a trial basis only with prior assessment and approval of the Ministry Representative.

NOTE: Federal Environmental Regulations has been legislated to limit volatile organic compounds in paints and coatings in effect Sept. 30, 2012 – proposed regs. start 3rd anniversary of the effective Regulation date Sept 30, 2009).

Recognized Traffic Paint products will be subject to complying with these regulations when they come into effect.

Color requirements for white and yellow traffic marking materials are specified and governed in the Ministry's Pavement Marking Contracts.

The colors of Ministry pavement markings are US Federal Specification 595b white 17886 and 595b yellow 33538.

Also, Traffic Paints listed on Alberta; and Washington, Idaho, and Alaska states under the Ministry's Pavement Marking Service Agreement – Round 3 are accepted under the contract for Pavement Marking.

The following list details the suppliers and their formulations which have been tested to meet specifications for supplying Traffic Paint to the Ministry Pavement Marking Contractors:

WHITE TRAFFIC PAINT (ALKYD)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Year Last Used
Standard White		78-915			Reference
General Paint (1022) (Sherwin Williams)	No	78-011	149	2013	Not Acetone Based
Cloverdale Paint (952)	No	79-424		2002	

YELLOW TRAFFIC PAINT (ALKYD)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Last Year Used
Standard Yellow		78-161			Reference
Ennis-Flint Paint (1030)	No	991071	416	2007	
General Paint (1022) (Sherwin Williams)	No	78-012	149	2013	Not Acetone Based

WHITE TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Year Last Used
Ennis-Flint Paint (1030)	No	991062	102	2007	
Ennis-Flint Paint (1030)	No	991066	90	2007	
Cloverdale Paint (952)	No	79-426		2002	

YELLOW TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Last Year Used

TRAFFIC MARKING PAINT from other JURISDICTIONS PRODUCT'S LIST (ALBERTA, IDAHO, WASHINGTON, and ALASKA)

Products listed under other the above jurisdictions as noted are allowed under the Ministry's current Pavement Marking Contract.

Companies maintain their products current listing on the other jurisdiction DoTs' Products Lists in accordance to those jurisdiction requirements.

For convenience the following Companies have traffic marking paint products listed on other jurisdiction product list:

Ennis Flint Paints (1031)
 General Paint (1022)
 Sherwin Williams (1047)
 Swarco (947)

Web links provided to the other Jurisdictions Product's List.

Province of Alberta	http://www.transportation.alberta.ca/Content/docType253/Production/ProductListIndex.pdf
State of Idaho	http://apps.itd.idaho.gov/apps/materials/QPL.aspx
State of Washington	http://www.wsdot.wa.gov/Business/MaterialsLab/QPL.htm
State of Alaska	http://www.dot.state.ak.us/stwddes/desmaterials/qpl_intro.shtml

URETHANE INJECTION CRACK SEALERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Miton 700 (144)	Miton 773 (140)

WIRE ROPE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specification for Highway Construction of Section 917 – under the same heading, qualifies under this section.